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RESEARCH GRANTS INDEX. FISCAL YEAR 1965. VOLUME II. GRANT NUMBER LIST AND BIBLIOGRAPHY, GENERAL RESEARCH AREAS, ALPHABETICAL LIST OF INVESTIGATORS

NATIONAL INSTITUTES OF HEALTH
BETHESDA, MARYLAND

1965

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RESEARCH GRANTS INDEX

Fiscal Year 1965

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Grant Number List and Bibliography
General Research Areas
Alphabetical List of Investigators

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service

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This is the second volume of an index of medical and health related research supported by the Public Health Service (PHS) grant program during fiscal year 1965. An alphabetical index to the subject headings contained in Volume I is included. The remainder of this volume consists of: (1) a list of researchers according to PHS project number; (2) an arrangement of projects by general research areas; and (3) an alphabetical list of investigators.

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Fiscal Year 1965

Volume II

Grant Number List and Bibliography
General Research Areas
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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE · Public Health Service

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GLOSSARY OF ABBREVIATIONS

Grant No. The grant number is composed of code letters and a number. The code letters represent the Institute or Division supporting the project. In the *Index* portion, Volume I, and in Appendices I and II of Volume II, projects (grants) are arranged alphabetically by Institute code letters and numerically within each Institute grouping. Code letters for the various Institutes and Divisions are as follows:

National Institutes Of Health

AI—Allergy and Infectious Diseases
AM—Arthritis and Metabolic Diseases
CA—Cancer
DBS—Division of Biologics Standards
DE—Dental
DRG—Division of Research Grants
DRS—Division of Research Services
FR—Division of Research Facilities and Resources
GM—General Medical Sciences
HD—Child Health and Human Development
HE—Heart
MH—Mental Health
NB—Neurological Diseases and Blindness
OD—Office of the Director
*OM—Mental Health (special series)
TW—Office of International Research

Bureau Of State Services

Community Health

AC—Accident Prevention
CC—Communicable Disease Center
CD—Chronic Diseases
CH—Community Health Services
DH—Dental Health
HM—Hospital and Medical Facilities
NU—Nursing

Environmental Health

AP—Air Pollution
EF—Environmental Engineering and Food Protection
ES—Environmental Health Sciences
OH—Occupational Health
RH—Radiological Health
WP—Water Supply and Pollution Control

National Library of Medicine

LM—National Library of Medicine

In Appendices I and III in Volume II the number of years in which a grant has been continued is shown as that part of the project number following a hyphen. Thus grant HE–09269–1 is a project in its first year of support, and HE–05670–4 is in its fourth year. The continuation years are omitted from the grant numbers listed in Volume I and from those in Appendix II, Volume II.

Contracts. Research contracts are identified by the appropriate Institute or Division code letters followed by a five or six digit number. The first two digits indicate the year in which the contract initially was awarded, the remaining digits following the hyphen being the contract identification number. In the *Index* portion and in Appendices I and II research contracts follow entries for grants for each Institute or Division.

Review Groups. Study Sections or Committees giving technical review to applications are abbreviated in Appendix I as shown below.

AFY—Applied Physiology
AI—Allergy and Immunology
AID—Allergy and Infectious Diseases Training Committee
AIP—Allergy and Infectious Diseases Program-Project Committee
AMK—Research Career Award Training Committee
AMP—Arthritis and Metabolic Diseases Program-Project Committee
APR—Accident Prevention Research
ARTH—Arthritis Training Committee
BBC—Biophysics and Biophysical Chemistry
BEH—Behavioral Sciences Fellowship Panel
BIO—Biochemistry
BM—Bacteriology and Mycology
BS—Behavioral Sciences
CAP—Cancer Program-Project Committee
CB—Cell Biology
CDR—Communicative Disorder Research Training Committee
CIC—Committee on International Centers
CLR—Clinical Research Centers
CMS—Communicative Sciences
COM—Computer Research
CRC—Construction Review Committees
CSP—Scientific Publications
CTC—Cancer Training Committee
CV—Cardiovascular
CY—Chemotherapy
DC—Epidemiology and Disease Control
DEN—Dental
DEP—Dental Program-Project Committee
DTL—Dental Training Committee
END—Endocrinology
EP—Experimental Psychology

(Continued)

*Since project numbers for this series duplicate numbers in the regular "MH" series, it has been necessary to revert to the former "OM" designation for this publication.

ESE..... Environmental Sciences and Engineering
GEN..... Genetics
GM..... General Medicine
GMP..... General Medical Research Program-Project Committee
GRS..... General Research Support
HDP..... Child Health and Human Decvlopment Program-Project Committee
HED..... Human Embryology and Development
HEM..... Hematology
HEP..... Heart Program-Project Committee
HM..... History of Life Sciences
HMF..... Hospital and Medical Facilities
HSR..... Health Services Research
HTC..... Heart Training Committee
HUE..... Human Ecology
IFRP..... International Fellowships Review Panel
MC..... Medicinal Chemistry
MET..... Metabolism
MH..... Mental Health
MHK..... Research Career Award Training Committee
MHP..... Mental Health Program-Project Committee
MPG..... Mental Health Project Grants Review Committee
MSM..... Mental Health Small Grants
MSP..... Mental Health Special Grants
NBP..... Neurology and Blindness Program-Project Committee
NEU..... Neurology
NR..... Nursing Research
NSS..... Interdisciplinary
NTN..... Nutrition
PATH..... Pathology
PC..... Physiological Chemistry
PET..... Pharmacology and Experimental Therapeutics
PHY..... Physiology
PME..... Advisory Committee on Primate Cells
PMY..... Psychopharmacology
PNL..... Perinatal Review
PR..... Primate Research
RAD..... Radiation
RCA..... Research Career Award Training Committee
SPP..... Special Program-Project Committee
SPR..... Advisory Committee on Health Science Engineering and Biotechnology
SRC..... Interdisciplinary
SSS..... Interdisciplinary
SURG..... Surgery
TOX..... Toxicology
TMP..... Tropical Medicine and Parasitology
VIS..... Visual Sciences
VR..... Virology and Rickettsiology

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GRANT* NUMBER LISTING AND BIBLIOGRAPHY

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AC-00206-2	APR	SHERIDAN, THOMAS B., Massachusetts Inst. Tech., Cambridge, Mass. Simulation study of the driver in emergencies
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AI-06359-1 AI **SALZMAN, THEODORE C.**, Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y. Mechanism of immunological paralysis

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AI-06366-1 BM **NISHIMURA, JONATHAN S.**, Sch. Med., Tufts Univ., Boston, Mass. The biosynthesis of peptide antibiotics

AI-06367-1 BM **WILKINS, PETER O**, Seton Hall Col. Med., Dent., Jersey City, N.J. Structure and control in membrane transport

AI-06374-1 BM **BURKE, RUTH C.**, Sch. Med., Yale Univ., New Haven, Conn. Lipid metabolism of Pityrosporum orbiculare

AI-06375-1 BM **DAY, RICHARD A.**, Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio Mode of action of penicillins on Bacillus cereus

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AI-06420-3 BM **ELLINGBOE, ALBERT H.**, Col. Natural Sci., Michigan State Univ., East Lansing, Mich. Genetics and physiology of plant parasitism
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AI-06442-1 TMP **ROTHMAN, ALVIN H.**, California State Col., Fullerton, Cal. The biochemistry and physiology of the cestode cuticle

AI-06443-1 AI **SZULMAN, ARON E.**, Magee Women's Hosp., Pittsburgh, Pa. Blood group substances in human tissues

AI-06447-1 BIO **HOARE, DEREK S.**, Col. Arts, Sci., Univ. Texas, Austin, Tex. Amino acid biosynthesis in photosynthetic bacteria

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AI-06567-2 TMP DUWE, ARTHUR E., Waynesburg Col., Waynesburg, Pa. Comparative serology of parasitic worms

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AI-06629-1 PET CANTRELL, WILLIAM F., Univ. Tennessee Med. Units, Memphis, Tenn. Effects of drugs and malaria on the RE-system

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AI-06632-1 VR SCHULTZ, IRWIN, Sch. Med., Washington Univ., St. Louis, Mo. Blood clearance of enteroviruses in rats

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Contr. AI-62-839 Baltimore Biological Lab., Baltimore, Md. Provide for production, testing, packaging of reagents

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Contr. AI-63-75 — Tulane Univ. of Louisiana, New Orleans, La. Exp. respiratory disease vaccine studies in population groups

Contr. AI-63-76 — Hektoen Inst., Chicago, Ill. Respiratory disease and immune response

Contr. AI-63-80 — Wyeth Labs., Philadelphia, Pa. Develope improved polyvalent adenovirus vaccine

Contr. AI-63-81 — Microbiological Assoc., Inc., Bethesda, Md. Dev. and res. work on new tissue cult lines use in growth of viruses

Contr. AI-63-103 — Flow Labs., Rockville, Md. Serology and tissue culture developmental laboratory

Contr. AI-63-536 — Ben Venue Labs., Bedford, Ohio Processing and testing of antisera

Contr. AI-63-563 — Res. Fdn. State Univ. New York, Albany, N.Y. Vaccine eval. center for studies in population of normal families

Contr. AI-63-587 — Drug Detection and Dev. Organization, Bethesda, Md. Production and maintenance of special genotype immunological agents in rabbits

Contr. AI-63-1127 — Univ. Wisconsin, Madison, Wis. Operation of vaccine center for studies in family population

Contr. AI-63-1128 — Univ. Virginia, Charlottesville, Va. Vaccine evaluation center for surveillance studies in industrial population

Contr. AI-64-529 — Kansas Univ. Med. Center, Kansas City, Kansas · Continue preparation and development of viral reagents

Contr. AI-64-928 — St. Louis Univ. Sch. Med., St. Louis, Mo. Tumorigenic and non-tumorigenic adenovirus strains

Contr. AI-64-941 — Microbiological, Bethesda, Md. Conduct cancer-virus investigations

Contr. AI-64-943 — Flow Labs., Rockville, Md. Respiratory syncytial virus vaccine

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Contr. AI-65-31 — Eli Lilly Co., Indianapolis, Ind. Production of reagents for herpes, B virus and pseudorabies

Contr. AI-65-35 — West Indies Univ. of Port-of-Spain, Trinidad Produce and supply reference reagents to Oropouche virus

Contr. AI-65-562 — Childrens Hosp. Res. Fdn., Columbus, Ohio Establish and maintain rhinovirus reference center

Contr. AI-65-563 — Eli Lilly Co., Indianapolis, Ind. Respiratory syncytial virus vaccines

Contr. AI-65-568 — Flow Labs., Inc., Rockville, Md. Maintenance of an antisera and antigen repository and distribution facilities

Contr. AI-65-632 — Hyland Lab., Los Angeles, Cal. Research and development in the field of leukocyte typing

Contr. AI-65-633 — Tufts College, Boston, Mass. Develop technical information on assay systems for histocompatibility

Contr. AI-65-638 — New York Univ. Med. Cr., New York, N.Y. Prepare human transplantation antigens from blood leukocytes

Contr. AI-65-655 — Univ. Turin, Torino, Italy A collaborative research study in transplantation immunology

Contr. AI-65-657 — Univ. California, Berkeley, Cal. Conduct studies in leukocyte typing

Contr. AI-65-986 — Univ. Paris, Paris, France Collaborative research study in transplantation immunology

Contr. AI-65-992 — Univ. Leiden, Leiden, Netherlands Conduct a project in transplantation immunology

Contr. AI-65-993 — Landsteiner Fdn., Amsterdam, Netherlands Conduct a project in transplantation immunology

Contr. AI-65-994 — Univ. California, Berkeley, Cal. Test leukocyte antisera on lymphocytes of kidney transplants

Contr. AI-65-1007 — Center Labs., Port Washington, N.Y. Lyophilize and package immune horse serum

Contr. AI-65-1027 — Univ. North Carolina, Chapel Hill, N.C. Compare technique in the elucidation of leukocyte isoantigen systems

Contr. AI-65-1031 — Univ. Illinois, Chicago, Ill. Vaccine study for immunization against viral respiratory infection

Publications received from terminated AI projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

ARTHRITIS AND METABOLIC DISEASES

AM-00001-19 NTN — GOLDSMITH, GRACE A., Sch. Med., Tulane Univ. New Orleans, La. The B group of vitamins in human nutrition

Arch Biochem 110:117, 65. Studies on the interaction of vitamin B_{12} intrinsic factor and receptors. III. Chemical and biological properties of vitamin B_{12} combining substances from the stomach, serum and ascites fluid of the mouse.

Bull Tulane Med Fac 24:109, 65. Characterization of humoral antibody in serum of rats challenged with porcine intrinsic factor concentrate incorporated in complete Freund's adjuvant.

Fed Proc 24:718, 65. On the mechanism of the cobamide-dependent propanediol to propionaldehyde isomerization.

Fed Proc 24:719, 65. Assay of antibody which neutralizes B_{12} combining site of human intrinsic factor.

Fed Proc 24:719, 65. Studies of B_{12} combining substances obtained by purification of porcine mucosa concentrates with CMC.

Proc Am Soc Clin Nutr, May 65. Serum cholesterol levels in macrocytic anemia: Relationships to folic acid and vitamin B12.

Proc Am Soc Hemat, Philadelphia, Pa, Dec 65. Assay of the auto-antibody which neutralizes the vitamin B12 combining site of human intrinsic factor using Zirconyl-PO_4 gel (Z-gel).

Proc Am Soc Hemat, Philadelphia, Pa, Dec 65. Assay of intrinsic factor activity in human gastric juice with Zirconyl-phosphate gel (Z-gel).

AM-00002-19 SSS — WINTROBE, M.M., Sch. Med., Univ. Utah, Salt Lake City, Utah Muscular dystrophy and hereditary disorders

AM-00008-17 END — WERNER, SIDNEY C., Col. Phys., Surg., Columbia Univ., New York, N.Y. Normal and disordered thyroid states in man

AM-00019-15 END — LAULER, DAVID P., Peter Bent Brigham Hospital, Boston, Mass. Pituitary and adrenal hormone studies

AM-00022-14 PATH — SILBERBERG, MARTIN, Sch. Med., Washington Univ., St. Louis, Mo. Hormones and nutrition in joint disease

Arch Path 77:519, 64. Dyschondrogenesis and osteoarthrosis in mice.

J Geront 20, (No 2):228, Apr 65. Aging changes and osteoarthrosis in castrate mice receiving progesterone.

Path Microbiol 27:447, 64. Pathogenesis of osteoarthrosis.

AM-00028-14 PC — SCHUBERT, MAXWELL, New York Univ. Med. Cr., New York, N.Y. Chemistry of components of connective tissue

Biopolymers 2:259, 64. The exclusion of large solutes by cartilage protein polysaccharide.

Methods of Carbohydrate Chemistry, Academic Press, New York, 5:106, 65. (a). Proteinpolysaccharide, isolation from cartilage. (b) Chondroitin, from chondroitin sulfate.

Small Blood Vessel Involvement in Diabetes Mellitus, Proc Conf Airlee House, Virginia, p. 221, Mar 63. Structure of ground substance.

AM-00044-14 GM — HEYMANN, WALTER, Sch. Med., Western Reserve Univ., Cleveland, Ohio Etiology of the nephrotic syndrome

Am J Physiol 207:1295, Dec 64. Tissue glycogen levels in animals treated with the aminonucleoside of puromycin.

Practice of Pediatrics, W F Prior Co, Hagerstown, Md, Vol 3, Ch 29, Sep 64. The nephrotic syndrome.

AM-00052-14 MET — DRURY, DOUGLAS R., Sch. Med., Univ. Southern California, Los Angeles, Cal. Effect of insulin on metabolism of glucose

Proc Soc Exp Biol Med 113:805, 63. Glucose tolerance in mildly and moderately diabetic rats exposed to cold.

AM-00068-14 HEM — GLASS, GEORGE B.J., New York Med. Col., New York, N.Y. Gastric and serum mucoproteins

Ann NY Acad Sci 112:904, 64. Activity of coenzyme B_{12} on guinea pig intestinal mucosa homogenates.

Clin Chim Acta 9:317, 64. Comparative study of intrinsic factor activity of gastric materials by urinary excretion test in vivo and on guinea pig intestinal mucosa homogenates in vitro.

Clin Chim Acta 9:485, 64. Separation of primary and secondary B_{12} binders in human gastric juice by paper electrophoresis at low pH.

Clin Chim Acta 9:509, 64. Distribution of polysaccharide components of human gastric juices in the electrophoretic partition.

Fed Proc 23:439, 64. Fractionation of intrinsic factor and proteolytic enzymes of human gastric mucosa on DEAE-cellulose column.

AM-00092-15 PHY — WHITE, HARVEY L., Sch. Med., Washington Univ., St. Louis, Mo. Circulatory and other aspects of renal physiology

Am J Physiol 208:397, 65. Urine and papilla concentration during transition from hypotonic to hypertonic urine.

AM-00110-14 END — LIEBERMAN, SEYMOUR, Col. Phys., Surg., Columbia Univ., New York, N.Y. Chemical methods in steroid metabolism

Biochem Biophys Res Commun 18, (No 1):126, 65. Isolation of cholesterol sulfate from human blood and gallstones.
Biochemistry 3:1256, 64. Quantitative studies on the metabolism of dehydroisoandrosterone sulfate.
Biochemistry 3:1983, 64. Evidence that steroid sulfates serve as biosynthetic intermediates. IV. Conversion of cholesterol sulfate in vivo to urinary C19 and C21 steroidal sulfates.
J Biol Chem 239, (No 9):3112, Sep 64. The isolation of cholesterol sulfate from bovine adrenals.
J Clin Endocr 25, (No 3):369, Mar 65. Treatment of amenorrhea and of anovulation with human menopausal and chorionic gonadotropins.

AM-00113-14 END ALTSZULER, NORMAN, New York Univ. Med. Cr., New York, N.Y. Hormonal regulation of metabolism
Am J Physiol 201:9, 61. The regulation of plasma free fatty acid turnover.
Am J Physiol 201:535, 61. Plasma free fatty acid turnover during insulin-induced hypoglycemia.
Fed Proc 21:198, 62. Effects of growth hormone on FFA metabolism.
Fed Proc 22:444, 63. Insulin-induced incorporation of C^{14} plasma glucose units into liver glycogen.
New York J Med 61:3139, 61. Hormonal regulation of glucose production and utilization; Studies with radioactive glucose.
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Proc 4th Int Diabetes Fed p. 146, Jul 61. Regulation of plasma free fatty acid metabolism.
Proc 5th Congr Int Diabetes Fed, Toronto, Jul 64. Effect of anti-insulin serum on glucose production and uptake in dogs.

AM-00131-13 END BAKER, BURTON L., Sch. Med., Univ. Michigan, Ann Arbor, Mich. Hormonal regulation of the digestive tract

AM-00149-13 MET PONSETI, I.V., Col. Med., State Univ. Iowa, Iowa City, Iowa Mucopolysaccharide defect in lathyrism
Proc 6th Int Congr Biochem, New York, Jul-Aug 64. Keratosulfate-peptide from beef cornea.
Proc Soc Exp Biol Med 118:270, 65. Acid mucopolysaccharides in the skin of lathyritic rats.
Proc 7th West Cent States Biochem Conf, Nov 64. Protein-polysaccharides from human costal cartilage.

AM-00162-14 PET GUTMAN, ALEXANDER B., Mt. Sinai Hosp., New York, N.Y. Purine metabolism and gouty arthritis
Am J Med 37:833, 64. Significance of the renal clearance of uric acid in normal and gouty man.
Am J Med 37:885, 64. Effect of allopurinol (4-hydroxypyrazolo(3,4-d)pyrimidine) on serum and urinary uric acid in primary and secondary gout.
Fed Proc 24:672, 65. Uricosuric properties of the sulfonylurea, acetohexamide.
Nature 204:681, 64. 3-Methylxanthosine.
Current Therapy, W B Saunders, Philadelphia, Pa, p. 307, 65. Gout.

AM-00180-14 END MIGEON, CLAUDE J., Johns Hopkins Hosp., Baltimore, Md. Endocrine glands in growth and development
Steroids 3, (No 1):95, Jan 64. The in vivo stability of the tritium label in 1,2-H^3-d-aldosterone when used for measurement of aldosterone secretion rate by the double isotope dilution technique.

AM-00182-14 HEM BRUBAKER, CHARLES A., Childrens Hosp., Los Angeles, Cal. Copper, iron and protein deficiency

AM-00193-13 NTN COHN, CLARENCE, Michael Reese Hosp., Chicago, Ill. Influence of diet on metabolic processes

AM-00227-16 HEM SMITH, CARL H., Sch. Med., Cornell Univ., N.Y.C. Congenital chronic anemias in children

AM-00254-13 END BONDY, PHILIP K., Sch. Med., Yale Univ., New Haven, Conn. Studies of adrenal cortical function in human disease
Endocrinology 75, (No 3):455, Sep 64. Effect of puromycin on the action of insulin on sugar and amino acid transport in muscle.
Medicine 44:249, 65. Etiocholanolone fever.

AM-00257-13 NTN ARGOUDELIS, CHRISTOS J., Grad. Sch., Univ. Illinois, Urbana, Ill. Biological functions of vitamin B6
Biochim Biophys Acta 74:568, 63. Studies on the lactonization of 5 and 4-pyridoxic acid.
J Org Chem 29:2663, 64. A synthesis of C14 - Labeled pyridoxol.

AM-00267-12 END INGBAR, SIDNEY H., Thorndike Mem. Lab., Boston, Mass. Thyroidal metabolism and hormone synthesis
Endocrinology 75:564, 65. Antithyroid effects of non-calorigenic congenera of salicylate, with observations on the influence of serum proteins on the potency of antithyroid agents.
Endocrinology 75:917, 64. Observations concerning the thyroxine-binding site of prealbumin in human serum.
Endocrinology 76:295, 65. Correlative effects of puromycin on 131I metabolism and amino acid incorporation by calf thyroid slices.
Endocrinology 76:479, 65. The role of peroxidases and catalases on the deiodination of thyroxine in frog liver.
Endocrinology 76, (No 3):547, Mar 65. Binding of 3,5,3'-L-triiodothyronine in human serum during agar gel electrophoresis at pH 7.4.
J Clin Endocr 24:1163, 64. The effects of salicylate and its noncalorigenic congeners on the thyroidal release of 131I in patients with thyrotoxicosis.
J Clin Invest 43:2266, 64. Observations on the nature of the underlying disorder and associated plasma transport abnormalities in a patient with an idiopathic increase in the plasma thyroxin-binding globulin.
J Clin Invest 44:1187, 65. Oxidative hemolysis and erythrocyte metabolism in heriditary actalasia.

AM-00289-16 PATH SCOTT, EARL B., Sch. Med., Univ. South Dakota, Vermillion, S.D. Histopathology of amino acid deficiencies
Exp Molec Path 3, (No 6):610, Dec 64. Histopathology of amino acid deficiencies. VII. Valine.

AM-00292-12 END GREEP, ROY O., Sch. Dent. Med., Harvard Univ., Boston, Mass. Central nervous system--Pituitary--Ovary interrelationships
Endocrinology 75:488, 64. Effects of luteinizing hormone on progestin biosynthesis in the luteinized rat ovary.
Endocrinology 76:246, 65. Failure of deciduomal response to uterine trauma, and effects of LH upon estrogen secretion in rats with ovaries luteinized by exogenous gonadotropins.
Fed Proc 24:321, 65. Stimulation by LH of estrogen secretion from normal rat corpus luteum actively secreting progesterone.
Fed Proc 24:384, 65. Steroid biosynthesis in the normal rat ovary.
Proc Endocr Soc 47th Ann Mtg, Jun 65. Stimulatory action of LH on steroid synthesis from cholesterol-7-H^3 in the rabbit ovary in vivo and in vitro.

AM-00299-11 END TURNER, CHARLES W., Univ. Missouri, Columbia, Missouri Mammary gland growth and lactation
J Dairy Sci 48:592, 65. Effect of growth hormone and thyroxine on mammary gland growth in the rat.
J Dairy Sci 48:801, 65. The effect of graded levels of corticosterone on lactation in the rat.
J Dairy Sci 48:802, 65. Restricted feed consumption and its effect on mammary gland growth.
J Dairy Sci 48:818, 65. Effect of pregnancy on feed consumption in rats.
Proc Soc Exp Biol Med 117:667, 65. Effect of sodium citrate on milk yield in rats.
Proc Soc Exp Biol Med 118:25, 65. Effect of thyroparathyroidectomy and adrenalectomy on food intake in rats.
Proc Soc Exp Biol Med 118:28, 65. Effect of thyroxine hydrocortisone and growth hormone on food intake.
Proc Soc Exp Biol Med 119:400, 65. Effect of diluxan on feed consumption in rats.
Proc Soc Exp Biol Med 119:415, 65. Effect of graded levels of insulin on lactation in the rat.

AM-00302-12 PATH LANGE, KURT, New York Med. Col., New York, N.Y. Immunologic factors of glomerulonephritis
Am J Med Sci 248, (No 5):562, Nov 64. Skin test for the diagnosis of systemic lupus erythematosus.
Proc Soc Exp Biol Med 117:842, 64. Specificity of immunofluorescence in experimental and human renal diseases.

AM-00311-12 PHY STEELE, J. MURRAY, New York Univ. Med. Cr., New York, N.Y. Movement of ions across the intestine

AM-00369-13 SURG FISHER, BERNARD, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa. Effect of arterialization upon the liver

AM-00381-12 END SEGALOFF, ALBERT, Alton Ochsner Med. Fdn., New Orleans, La. Isolation and study of hypophyseal hormones

AM-00396-13 MET GOLDSTEIN, MAURICE S., Michael Reese Hosp., Chicago, Ill. Mechanism of action of insulin

AM-00430-12 MET TALSO, PETER J., Stritch Sch. Med., Loyola Univ., Hines, Ill. Diuretic mechanisms--intracellular factors

Appl Ther 7, (No 1):38, 65. Combined therapy of hypertensive disease: An evaluation of the value of a phenothiazine derivative.

Curr Ther Res 6:162, 64. Polythiazide in the management of hypertensive disease. I. Effects of water and electrolyte metabolism.

Curr Ther Res 6:169, 64. Polythiazide in the management of hypertensive disease. II. Comparison of the effects of polythiazide and reserpine in the management of hypertension in ambulatory patients.

J Cell Biol 23, (No 2):40A, 64. A submicroscopic study on the heart of the rat.

J Lab Clin Med 64, (No 6):1009, 64. An electron microscope study of non-myelinated nerve fibers in the mammalian heart.

J Nucl Med 6:354, 65. Continuous flow monitered dialysis determination of sodium-serum protein binding.

AM-00432-15 END D'ANGELO, SAVINO A., Daniel Baugh Inst., Anatomy, Philadelphia, Pa. Hypothalamico-pituitary-thyroid interaction

AM-00461-14 PHY BRODSKY, WILLIAM A., Sch. Med., Univ. Louisville, Louisville, Ky. Renal transport mechanisms for water and for solute

Am J Physiol 208:38, 65. Effect of osmotic diuresis on intrarenal solutes in diabetes insipidus and hydropenia.

Am J Physiol 208:46, 65. Osmotic properties of isolated turtle bladder.

Am J Physiol 208:546, 65. Metabolic pathway for urea production by the amphibian kidney.

Fed Proc 24:407, 65. Influence of mucosal pH on electrical parameters of the turtle bladder.

Proc Int Congr Physiol Sci, Tokyo, Sep 65. Electrical coupling of active sodium with active chloride transport in the turtle bladder.

AM-00462-11 END LEATHEM, JAMES H., Rutgers Univ., New Brunswick, N.J. Hormonal and dietary protein interrelationships

Anat Rec 151:395, 65. Uterine response to estrogen as modified by diet, corticoids and actinomycin D.

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Fed Proc 24:575, 65. Effect of corticosterone and caloric restriction on adrenalectomized rats.

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AM-00475-12 MET VERMEULEN, CORNELIUS W., Sch. Med., Univ. Chicago Hospitals, Chicago, Ill. Experimental urolithiasis

Invest Urol 2:131, 64. Artificial uric acid concretions and observations on uric acid solubility and supersaturation.

Invest Urol 2:495, 65. Effect of oral pyro- and tripolyphosphate on rat urolithiasis.

AM-00476-11 END CRAFTS, ROGER C., Col. Med., Univ. Cincinnati, Ohio Regulation of hematopoiesis

Anat Rec 151:386, 65. Differences in radioiron uptake in male and female hypophysectomized rats three to six months after surgery.

Proc Soc Exp Biol Med 117:520, 64. Evidence for a non-calorigenic effect of thyroxin on erythropoiesis as judged by radioiron utilization.

AM-00494-12 CB NITOWSKY, HAROLD M., Sinai Hosp., Baltimore, Md. Metabolism of human cell cultures

AM-00502-12 PATH BERMAN, DAVID T., Grad. Sch., Univ. Wisconsin, Madison, Wis. Endocarditis and arthritis in swine erysipelas

AM-00504-11 END BOLINGER, ROBERT E., Univ. Kansas Med. Ctr., Kansas City, Kansas Factors affecting the plasma insulin activity

Diabetes 13, (No 6):600, Nov-Dec 64. Galvanic skin reflex and plasma free fatty acids during insulin reactions.

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Proc Soc Exp Biol Med 116:812, 64. Comparison of disappearance from plasma of insulin I-131 and of insulin-like activity.

AM-00512-12 PC ROSEMAN, SAUL, Sch. Med., Univ. Michigan, Ann Arbor, Mich. Biochemistry of complex carbohydrates

Biochemistry 3:402, 64. Preparation of crystalline 3-D-galactosamine-1-phosphoric acid and its conversion to UDP-N-acetylgalactosamine.

J Biol Chem 239:PC2714, 64. Isolation of sialic acid 9-phosphatase from human erythrocytes.

Proc Nat Acad Sci 5:897, 64. Polysaccharide and glycolipid synthesis by cell-free preparations from type XIV pneumococcus.

AM-00531-18 PC LARDY, HENRY A., Inst. Enzyme Res., Univ. Wisconsin, Madison, Wis. Intermediary metabolism

Biochemistry 3:812, 64. Effect of antimycin A on oxidative phosphorylation with ferricyanide as electron acceptor.

Biochemistry 3:1687, 64. Metabolic control of enzymes involved in lipogenesis and gluconeogenesis.

Biochemistry 3:1961, 64. Antibiotics as tools for metabolic studies. II. Inhibition of phosphoryl transfer in mitochondria by oligomycin and aurovertin.

Biochemistry 3:1969, 64. Antibiotics as tools for metabolic studies. III. Effects of oligomycin and aurovertin on the swelling and contraction processes of mitochondria.

Biochemistry 4:552, 65. Antibiotics as tools for metabolic studies. IV. Comparative effectiveness of oligomycins A, B, C, and rutamycin as inhibitors of phosphoryl transfer reactions in mitochondria.

J Biol Chem 239:3065, 64. The effect of adenosine triphosphate and substrate on orthophosphate-induced mitochondrial swelling at acid pH.

J Biol Chem 240:1836, 65.

J Biol Chem 240:1843, 65. The role of adenine nucleotides in control of choline oxidation by mitochondria.

AM-00533-18 HEM TURNER, DANIEL L., Jefferson Med. Col., Philadelphia, Pa. Phospholipid thromboplastins of blood

Fed Proc 24:727, 65. Total synthesis of DL-Dilinoleoylphosphatidyl-L-serine and its activity in clotting systems.

Physiologist 8:272, 65. Role of calcium ions and phospholipids in platelet aggregation and plug formation.

AM-00535-17 BIO LASKOWSKI, MICHAEL, Sr., Sch. Med., Marquette Univ., Milwaukee, Wis. Proteolytic enzymes

Biochem Biophys Res Commun 17:792, 64. The basic trypsin inhibitor of bovine pancreas. III. A progress report on the tryptic peptides.

Biochem Biophys Res Commun 18:255, 65. The basic trypsin inhibitor of bovine pancreas. IV. The linear sequence of 58 amino acids.

Biochim Biophys Acta 92:312, 64. Activation of chymotrypsinogen B.

Fed Proc 24:593, 65. Further experiments on basic pancreatic trypsin inhibitor.

AM-00537-16 HEM SWISHER, SCOTT N., Sch. Med. Dent., Univ. Rochester, Rochester, N.Y. Interactions of antibodies and blood cells

Ann NY Acad Sci 120:326, 64. Significance of blood groups in homotransplantation of marrow in the dog.

J Clin Invest 44:746, 65. Studies of the effects of administration of ACTH and adrenal corticosteroids on erythrophagocytosis.

Trans NY Acad Sci, p. 441, 65. Clinical correlations of the direct antiglobulin reaction.

Transfusion 4:419, 64. Quantitative aspects of red cell agglutination: The analysis of a pattern of agglutination produced by human group B cells and anti-B serum.

Vox Sang 9:487, 64. S_2, a new phenotype in the M N blood group system.

Vox Sang 10:54, 65. Methods in quantitative hemagglutination. I.

Vox Sang 10:133, 65. Methods in quantitative hemagglutination. II.

Vox Sang 10:378, 65. Studies of differential agglutination of red cells utilizing the Coulter model B electronic particle counter.

AM-00546-14 BIO SPRINSON, DAVID B., Col. Phys., Surg., Columbia Univ., New York, N.Y. Surgars and synthesis of amino acids

Biochem Biophys Res Commun 16, (No 3):254, 64. Stereochemistry of the isocitrate lyase reaction.

Biochemistry 3:1855, 64. Synthesis of 3,7-dideoxy-D-threo-hepto-2,6-diulosonic acid: A study in 5-dehydroquinic acid formation.

Biochemistry 4:650, 64. Methylated purines and pyrimidines. I. Synthesis of 8-hydroxy-7-methylguanine and methylation of a 5-(benzylideneamino) pyrimidine.

Biochemistry 4:655, 65. Methylated purines and pyrimidines. II. Synthesis and properties of 2, 6-diamino-5-(methylamino)-4-pyrimidinol.
J Biol Chem 239, (No 12):4269, Dec 64. Stereochemical course of the isocitrate lyase reaction.

AM-00548-14 AI **WEISER, RUSSELL S.,** Veterans Admin. Hosp., Seattle, Wash. Red cell antibodies in autoimmune diseases
Am J Med 38:378, 65. Studies with radioiodinated cold agglutinins of ten patients.
Proc Int Soc Blood Transf 10th Congr, Stockholm, 64. Inhibition of C' hemolysis by cell adsorbed C' complex.

AM-00562-12 PC **GUNSALUS, I.C.,** Grad. Sch., U. Illinois, Urbana, Ill. Metabolic mechanisms
Biochem Biophys Res Commun 18:934, 65. Control of catabolic specificity and metabolism.
Fed Proc 24:604, 65. Purification of a flavoprotein moiety of amixed function oxidase system.
J Biol Chem 340:495, 64. Mixed function oxidation. II. Separation and properties of the enzyme catalyzing camphor lactonization.
Proc Am Chem Soc 148th Nat Mtg, Chicago, Ill., p. 3C, 64. Oxidative enzyme systems in metabolism of camphor enantiomers.
Proc Am Chem Soc 148th Nat Mtg, Chicago, Ill., p. 4C, 64. Pathways in microbial metabolism of camphor enantiomers.

AM-00566-12 SSS **POLLARD, MORRIS,** Univ. Notre Dame, Notre Dame, Ind. Hearing and study of germfree animals
J Nutr 84, (No 3):277, Nov 64. The cholesterol-lowering effect of commercial diet fed germfree and conventional rats.

AM-00567-12 BIO **KNOX, W. EUGENE,** N. England Deaconess Hosp., Boston, Mass. Tryptophan and tyrosine metabolism
Advances Enzyme Regulat 3:247, 65. The regulation of some enzymes of nitrogen metabolism--An introduction to enzyme physiology.
Anal Chem 36:2189, Oct 64. Quantitative determination of o- and p-dihydric phenols in presence of monohydric phenols by use of a phosphotungstic acid reagent.
J Biol Chem 239, (No 11):3821, Nov 64. The enzymatic basis of tyrosyluria in rats fed tyrosine.
Seikagaku Jap Biochem 37:375, 65. The forms of tryptophan in liver.

AM-00570-14 PC **MEYER, KARL,** Col. Phys., Surg., Columbia Univ., New York, N.Y. Mucopolysaccharides of connective tissues
J Biol Chem 239, (No 8), Aug 64. Threonine and serine linkages in mucopolysaccharides and glycoproteins.
J Biol Chem 240:156, 65. The O-serine linkage in peptides of chondroitin 4- or 6-sulfate.
J Biol Chem 240:1005, 65. Variations in keratosulfates.
Small Blood Vessel Involvement in Diabetes Mellitus, Am Inst Biol Sci, 64. Mucopolysaccharide composition of the vessel wall.

AM-00582-13 BIO **CHELDELIN, VERNON H.,** Sch. Sci., Oregon State Univ., Corvallis, Ore. Metabolism of aerobic bacteria
Biochim Biophys Acta 93:644, 64. Acidic amino acids from α-hydroxy-γ-keto[14C]glutarate in rat liver and larvae of the blowfly Sarcophaga bullata.
Chim Chron 29A:214, 64. Acidic amino acids from [14C]-α-hydroxy-γ-ketoglutarate in mouse liver.

AM-00583-18 PATH **PENNER, ABRAHAM,** Mount Sinai Hosp., New York, N.Y. Study of serum histidase as an index of liver injury

AM-00592-18 NTN **ARMSTRONG, WALLACE D.,** Sch. Med., Univ. Minnesota, Minneapolis, Minn. Metabolism of calcified tissues

AM-00608-12 BIO **CARPENTER, FREDERICK H.,** Grad. Sch., Univ. California, Berkeley, Cal. Structure and activity of insulin
Biochem Biophys Res Commun 14:399, 64. Hydrolysis of phenylthiohydantions of amino acids.
Biochemistry 2:1272, 63. Electrophoresis on cellulose acetate of insulin and insulin derivatives: Correlation with behavior on countercurrent distribution and partition chromatography.
J Biol Chem 239:1799, 64. Inhibition of chymotrypsin activity in crystalline trypsin preparations.

AM-00612-13 END **ASTWOOD, EDWIN B.,** New England Cr. Hosp., Boston, Mass. Pituitary hormones
Endocrinology 75:140, 64. Effects of hypophysectomy and diet on fatty acid synthesis in adipose tissue.
Endocrinology 75:389, 64. The effect of reserpine on thyroidectomized-adrenodemedullated rats.
Endocrinology 75:692, 64. Hypocalcemic effect of pituitary polypeptides in rabbits.
Endocrinology 76:323, Feb 65. Studies on the early effects of thyroid hormones.
Endocrinology 76:369, 65. Purification of a placental factor with immunological and biological similarity to human growth hormone.
Fed Proc 24:188, Apr 65. Interrelations of thyroid and catecholamines.
J Clin Endocr 25:155, 65. Use of the thyroid suppression test as a guide to prognosis of hyperthyroidism treated with antithyroid drugs.
Metabolism 13, (No 10):1214, 64. Pituitary peptides and fat mobilization.
Pharmacological Basis of Therapeutics, MacMillan Co., New York, 65. Thyroid and antithyroid drugs; pituitary hormones and related substances, estrogens and progestins; androgens.

AM-00613-8 GM **KUYPER, ADRIAN C.,** Col. Med. Wayne State Univ., Detroit, Mich. Chemistry of bone salt formation
Anal Biochem 8:272, 64. A wet-combustion method for carbon-14 analysis.

AM-00645-11 PATH **GREENBERG, LOUIS D.,** Sch. Med., Univ. California, San Francisco, Cal. Pathology of nutritional deficiencies
Arch Path 77:317, 65. Hepatic lesions in pyridoxine-deficient monkeys.
Fed Proc 24:625, 65. Metabolism of tritium-labeled pyridoxine in the monkey.

AM-00649-11 PET **GEMMILL, CHALMERS L.,** Sch. Med., U. Virginia, Charlottesville, Va. Metabolic effects of thyroxine
Anal Biochem 10, (No 3):504, Mar 65. Determination of iodinated salicylates.
Proc Soc Exp Biol Med 118:290, 65. Sodium pentobarbital on temperature and heart rate of rats subjected to cold.

AM-00650-11 MET **BALDRIDGE, ROBERT C.,** Sch. Med., Temple Univ., Philadelphia, Pa. Alternate pathways in histidine metabolism

AM-00660-11 BM **BENNETT, IVAN L., Jr.,** Sch. Med., Johns Hopkins Univ., Baltimore, Md. The pathogenesis of fever

AM-00664-11 HED **ASLING, C. WILLET,** Grad. Sch., Univ. California, Berkeley, Cal. Hormones and nutrition in skeletal development
Rev Suisse Zool 72, (No 1):1, 65. Gigantism: Its induction by growth hormone in the skeleton of intact and hypophysectomized rats, and its failure following thyroidectomy.

AM-00666-11 MET **FREEMAN, SMITH,** Sch. Med., Northwestern Univ., Chicago, Ill. Ca and P metabolism in parathyroid function

AM-00668-11 NTN **HARRISON, HAROLD E.,** Johns Hopkins Hosp., Baltimore, Md. Calcium and phosphate transport
Am J Physiol 208:370, 65. Vitamin D and permeability of intestinal mucosa to calcium.
Clin Orthop 33:147, 64. Hereditary metabolic bone diseases.
Metabolism 13:952, 64. The interaction of vitamin D and parathyroid hormone in calcium phosphorus and magnesium homeostasis in the rat.

AM-00693-10 GM **ORTEN, ALINE U.,** Sch. Med., Wayne State Univ., Detroit, Mich. Absorption of amino acids from a Thiry loop

AM-00703-11 MC **KHARASCH, NORMAN,** Univ. Southern California, Los Angeles, Cal. Effects of ultraviolet irradiation on thyroxine

AM-00706-11 CB **ROBINSON, ROBERT A.,** Johns Hopkins Hosp., Baltimore, Md. Electron microscope study of cartilage and bone
Bone Biodynamics, Little, Brown Co, Boston, Ch. 7, p. 91, 64. The ultrastructure of bone cells.
Bone Biodynamics, Little, Brown Co, Boston, Ch. 23, p. 423, 64. Observations regarding compartments for tracer calcium in the body.

AM-00708-11 SURG **WELCH, C. STUART,** Albany Med. Cr. Hosp., Albany, New York Therapy of acute and chronic hepatic insufficiency
Med Tribune 6, (No 79), Jul 65. Portal hypertension: Forum surveys approaches.
Surgery 56, (No 6):1121, Dec 64. Thoracic duct lymph flow with variations in hepatic hemodynamics.

AM-00709-13 MC **DAUBEN, WILLIAM, G.,** Univ. California, Berkeley, Cal. Ultraviolet irradiation of natural products

AM-00713-11 GM **CAREY, JAMES B., Jr.,** Univ., Minnesota Med. Sch., Minneapolis, Minn. Metabolism of bile acids
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Proc 6th Pan-Am Congr Endocr, Oct 65. Inhibition of β-glucuronidase in urine.

AM-09956-1 BBC NATELSON, SAMUEL, Michael Reese Hosp., Med. Cr., Chicago, Ill. Microanalysis of tissue by x-ray spectrometry
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AM-09958-1 PATH NATELSON, SAMUEL, Michael Reese Hosp., Med. Cr., Chicago, Ill. Levels of guanidino compounds in health and disease

AM-10002-1 END KNIGGE, KARL M., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y. Neural control of thyroid function

AM-10005-1 PATH HU, FUNAN, Oregon Regional Primate Res. Cr., Beaverton, Ore. Ultrastructure of diseased human skin

AM-10010-1 PC NICOLAIDES, NICHOLAS, Sch. Med., Univ. So. California, Los Angeles, Cal. Analysis of lipids of human skin

AM-10036-1 AI McBRIDE, RAYMOND A., Mount Sinai Hosp., New York, N.Y. Analysis of graft-host interaction in chickens

Contr. AM-63-574 Johns Hopkins Univ., Baltimore, Md. Establish and maintain a pituitary gland storage bank

Contr. AM-64-44 Natl. Acad. Sci., Washington, D.C. Continue research on nutritional requirements of vertebrates

Contr. AM-65-32 Medical Res. Council, London, England Expand steroid collection for availability to U.S. scientists

Contr. AM-65-76 Bendix Corp., Cincinnati, Ohio Modify one polarmatic spectropolarimeter

Contr. AM-65-591 Brooklyn College, Brooklyn, N.Y. Preparation of three organic compounds

Contr. AM-65-597 Marine Biol. Lab., Woods Hole, Mass. Provide research facilities for visiting government scientists

Contr. AM-65-608 Science Prod. Corp., Dover, N.J. Develop, construct, deliver differential microcalorimeter

Contr. AM-65-1025 New York Univ. Med. Cr., New York, N.Y. To supply blood and other materials from primates

Publications received from terminated AM projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

AIR POLLUTION

AP-00001-11 AI SHELDON, JOHN M., Univ. Michigan Med. Cr., Ann Arbor, Mich. Atmospheric pollution by aeroallergens--Medical phase

AP-00002-6 BM KRUEGER, ALBERT P., Univ. California, Berkeley, Calif. Biological effects of gaseous ions
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AP-00005-4 BM LAURENZI, GUSTAVE A., Seton Hall Col. Med. Dent., Jersey City, New Jersey Clearance of bacteria from pulmonary tissue

AP-00012-7 ESE GOETZ, ALEXANDER, California Inst. Tech., Pasadena, Cal. Formation and decay of atmospheric aerosols
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AP-00018-5 ESE HISATSUNE, I.C., Col. Sci., Pa. State Univ., Univ. Park, Pa. Structures of some oxides of nitrogen
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AP-00031-3 ESE MUELLER, PETER, California State Dept. Pub. Hlth., Berkeley, Cal. Long-term effects of inhaling polluted air

AP-00033-2 ESE KAISER, ELMER R., Col. Eng., New York Univ., Bronx, N.Y. Smokeless incineration of bulky municipal refuse

AP-00039-3 ESE QUON, JIMMIE E., Northwestern Univ., Evanston, Ill. Significance of combustion nuclei to air pollution

AP-00040-4 ESE DUGGER, W.M., Jr., Univ. California, Riverside, Cal. Photochemical effects of oxidants on plants
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AP-00041-4 TOX WOLTZ, SHREVE S., Univ. Florida, Bradenton, Fla. Effect of fluorides on metabolism of higher plants

AP-00045-5 SSS SPICER, WILLIAM S., Jr., Sch. Med., Univ. Maryland, Baltimore, Md. Environmental factors and chronic bronchitis
Am Rev Resp Dis 90, (No 5):730, Nov 64. Chronic obstructive airway disease. Bacterial and cellular content of the sputum.
J Appl Physiol 19, (No 6):1059, Nov 64. Measurement of upper and lower airway resistance and conductance in man.

AP-00048-4 ESE KERKER, MILTON, Clarkson Col. Tech., Potsdam, N.Y. Physical chemical studies of aerosols

AP-00052-3 ESE THOMPSON, C. RAY, Citrus Expt. Station, Univ. California, Riverside, Cal. Effect of fluorides and/or oxidants on citrus

AP-00065-2 ESE KINDIG, JAMES K., Col. Mineral Ind., Pennsylvania State Univ., University Pk., Pa. Elimination of air pollution from burning refuse piles

AP-00071-3 PC MUDD, JOHN B., Univ. California, Riverside, Cal. Biochemical effects of air pollutant oxidants

AP-00080-9 BM PADY, STUART M., Kansas State Univ., Manhattan, Kans. Diurnal investigations of airborne fungi
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AP-00081-7 ESE OGDEN, EUGENE C., Sch. Pub. Hlth., Univ. State New York, Albany, N.Y. Travels of airborne pollen

AP-00084-10 ESE AMDUR, MARY O., Sch. Pub. Hlth., Harvard Univ., Boston, Mass. Physiological response to atmospheric pollutants

AP-00090-7 ESE COWAN, DONALD W., Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn. Relationship of air pollution to allergic diseases
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AP-00137-4 BM SCHLICHTING, HAROLD E., Jr., Sch. Sci., North Texas State Univ., Denton, Texas Viable species of algae and protozoa in the atmosphere

AP-00176-9 CSP LEVINE, BENJAMIN S., 3312 Northampton St., NW, Washington, D.C. USSR literature on air pollution and related diseases

AP-00181-3 HUE WINKELSTEIN, WARREN, Jr., Sch. Med., State Univ. New York, Buffalo, N.Y. Erie county air pollution--Respiratory function study

AP-00182-4 ESE ESTES, FRANCES L., Univ. Texas Med. Branch, Galveston, Texas Biochemical effects of simulated air pollutants

AP-00185-2 BBC DALHAMN, TORE, Inst. Hygiene, Karolinska Inst., Stockholm, Sweden Effect of irritant substances on ciliary frequency in the trachea

AP-00186-4 ESE DE JUHASZ, KALMAN J., 423 West Park Ave., State College, Pa. Sprays and aerosols--Bibliography and abstracts
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AP-00205-3 TOX THIENES, CLINTON H., Huntington Mem. Hosp., Pasadena, Cal. Atmospheric pollutants and lung amines

AP-00207-3 ESE BALCHUM, OSCAR J., Sch. Med., Univ. Southern California, Los Angeles, Cal. The evolution of pulmonary emphysema

AP-00208-4 CV PERMUTT, SOLBERT, Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md. Cardiopulmonary physiology in bronchial asthma
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AP-00224-2 ESE PANOFSKY, HANS A., Col. Mineral Industries, Pennsylvania State Univ., University Park, Pa. Meterological analysis, Pennsylvania air quality data

AP-00229-3 PHY MEAD, JERE, Harvard Sch. Pub. Hlth., Boston, Mass. Mechanical factors in the control of breathing
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AP-00246-3 ESE SHULMAN, HERMAN L., Grad. Sch., Clarkson Col. Technology, Potsdam, N.Y. Kinetics of adsorption by molecular sieves
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AP-00264-2 CV ROKAW, STANLEY N., Rancho Los Amigos Hosp., Downey, Cal. Pollutants and human function--Environment controlled

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AP-00323-1 ESE LONG, RONALD, Univ. Birmingham, Birmingham, England Reduction of hydrocarbons during incomplete combustion

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AP-00413-1 ESE DELAND, RAYMOND J., Sch. Eng. Sci., New York Univ., Bronx, N.Y. Atmospheric turbulence over a city

AP-00415-1 NSS HEAD, MURDOCK, George Washington Univ. Airlie Cr., Warrenton, Va. Audiovisual methods for air pollution information

AP-00417-1 ESE BRADDOCK, LE ROY I., Univ. Pennsylvania Hosp., Philadelphia, Pa. Variables affecting chromaticity data for spot tests

AP-00421-1 ESE CROSBY, EDWIN J., Univ. Wisconsin, Madison, Wis. Coalescence of drops in a gaseous medium

AP-00423-1 ESE URONE, PAUL, Col. Arts, Sci., Univ. Colorado, Boulder, Colo. Gas chromatography of oxidants in air pollution

AP-00425-1 ESE HODKINSON, JOHN R., Sch. Arts, Sci., Virginia State Col., Petersburg, Va. Fundamentals of the optical measurement of aerosols

AP-00431-1 ESE CORN, MORTON, Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa. The shape of atmospheric particles

AP-00432-1 SSS NORTON, FRANCIS J., Atmospheric Sci. Res. Cr., State Univ. New York, Albany, N.Y. Permeation rates of tracer gases through polymers

AP-00434-1 SSS WENT, FRITS W., Desert Res. Inst., Univ. Nevada, Reno, Nev. Effects of pure air and terpene vapors on organisms

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CA-00757-11 END **EHRENSTEIN, MAXIMILIAN R.**, Univ. Pennsylvania, Philadelphia, Pa. Synthesis of steroids

CA-00807-17 CB **MARSLAND, DOUGLAS A.**, Marine Biological Lab., Woods Hole, Mass. Studies on cell division and related processes
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CA-08267-1 CB NELSON, ERLAND, Sch. Med., Univ. Maryland, Baltimore, Md. Ultrastructure of neoplasms of the nervous system

CA-08269-4 MET FOSTER, DANIEL W., Southwestern Med. Sch., Univ. Texas, Dallas, Tex. Regulation of ketogenesis and lipogenesis in tissues

CA-08272-1 MET RYAN, WAYNE L., Col. Med., Univ. Nebraska, Omaha, Nebr. Study of lysine metabolism

CA-08275-1 RAD DEL REGATO, J.A., Penrose Cancer Hosp., Colorado Springs, Colo. Research in radiotherapy and radiobiology

CA-08276-1 AI KAUFMAN, JOSEPH J., Univ. California Cr. Hlth. Sci., Los Angeles, Cal. Heterologous bladder cancer transplantation studies

CA-08278-1 MC SEYFERTH, DIETMAR, Massachusetts Inst. Tech., Cambridge, Mass. Organofunctional phosphine oxides

CA-08279-1 HEM MEYER, LEO M., Queens Hosp. Cr., Jamaica, N.Y. Vitamin B12 combining power of serum and tissues in disease

CA-08281-1 END CONWAY, LOUIS W., Med. Col. Virginia, Richmond, Va. Pituitary ablation--its endocrine and clinical effects

CA-08286-1 VR LENNETTE, EDWIN H., State California Dept. Pub. Hlth., Berkeley, Cal. Detection of viral antigens in human tumor cells

CA-08290-1 CY REICH, EDWARD, Rockefeller Inst., New York, N.Y. Chemotherapeutic deoxynucleosides and analogues

CA-08292-1 PC BURNETT, JEAN B., Massachusetts Gen. Hosp., Boston, Mass. Tyrosinase evolution, genetic control and biochemistry

CA-08295-1 BIO TITCHENER, EDWARD B., Col. Med., Univ. Illinois, Chicago, Ill. Mitochondrial synthesis and membrane-bound enzymes

CA-08301-1 RAD GOTTSCHALK, ALEXANDER, Univ. Chicago Hosp., Clinics, Chicago, Ill. Radioisotope imaging with ultra-short lived isotopes

CA-08306-1 PATH ARNOLD, EUGENE A., Jr., Johns Hopkins Hosp., Baltimore, Md. Protein biosynthesis in neoplasia

CA-08310-1 PATH WINKELMAN, JAMES, Sch. Med., New York Univ., New York, N.Y. Porphyrin metabolism in tumors and other tissues

CA-08312-1 PATH OZZELLO, LUCIANO, Pacific Northwest Res. Fdn., Seattle, Wash. Production of hyaluronate in stroma of breast cancer

CA-08315-1 PATH MELNYKOVYCH, GEORGE, Veterans Admin. Hosp., Kansas City, Mo. Steroid induced changes in cultured malignant cells

CA-08318-1 RAD YATVIN, MILTON B., University Hosps., Madison, Wis. Studies on recovery in tissues irradiated in vivo

CA-08321-1 CY SMITH, SISTER MARIAN J., Col. Saint Elizabeth, Convent Station, N.J. Deoxyribonuclease activity in tumor-bearing rats

CA-08329-1 VR MUNROE, J. SPENCER, Lenox Hill Hosp., New York, N.Y. Oncogenesis in primates

CA-08334-1 CY DUNN, LEO J., State Univ. Iowa Hosp., Iowa City, Iowa Endocrine factors in endometrial carcinoma

CA-08336-1 RAD NEWTON, THOMAS H., Univ. California Med. Cr., San Francisco, Cal. Total angiographic evaluation of lung tumors

CA-08338-1 CY GILFILLAN, ROBERT F., St. Margaret's Hosp., Boston, Mass. Effects of connective tissue components on cells

CA-08339-1 MET WHITNEY, JOHN E., Sch. Med., Univ. Arkansas, Little Rock, Ark. Insulin-like activity in non pancreatic tissues

CA-08345-1 GM CRISSEY, JOHN T., Sch. Med., Univ. Southern California, Los Angeles, Cal. Skin temperature monitoring with liquid crystals

CA-08348-1 CY REED, DONALD J., Radiation Cr., Oregon State Univ., Corvallis, Ore. Cellular alkylation by certain methyl hydrazines

CA-08357-7 AI WEISS, DAVID W., Col. Letters and Sci., Univ. California, Berkeley, Cal. Immunology of a tumor protective fraction of BCG

CA-08358-2 VR BELLIN, JUDITH S., Polytechnic Inst. Brooklyn, Brooklyn, N.Y. Dye-sensitized photoinactivation and reactivation

CA-08359-1 NSS HORSFALL, FRANK L., Jr., Sloan-Kettering Inst. Cancer Res., New York, N.Y. Symposium on Macromolecules and Cancer

CA-08493-1 RAD FORBES, P. DONALD, Barrington Col., Barrington, R.I. Studies on ultraviolet radiation carcinogenesis in mice

CA-08498-1 AI GRAF, LISELOTTE, Albert Einstein Col. Med., Bronx, N.Y. Immunochemical studies of malignant tumors

Ann N Y Acad Sci 122:277, 65. Immunological reactions of myelin in vitro.

J Neurochem 11:855, 64. Immunochemical studies of organ and tumor lipids. XIV. Galactocerebroside determinants in the myelin sheath of the central nervous system.

Nature 201:879, 64. Serological activity of cytolipin H (lactocytoside).

CA-08499-1 CY HU, FUNAN, Oregon Regional Primate Res. Cr., Beaverton, Ore. Tissue culture studies of human melanocytes

CA-08500-1 BIO FREEDMAN, AARON, Menorah Medical Cr., Kansas City, Mo. Control mechanisms in pyruvate metabolism

CA-08501-1 MET SIPERSTEIN, MARVIN D., Southwestern Med. Sch., Univ. Texas, Dallas, Tex. Control of cholesterol synthesis: Krebs cycle acids

CA-08502-4 VR GRIESEMER, RICHARD A., Col. Vet. Med., Ohio State Univ., Columbus, Ohio Effects of viruses on germfree dogs and cats

CA-08505-1 GM ZACKHEIM, HERSCHEL S., Sch. Med., Wayne State Univ., Detroit, Mich. Species differences in carcinogenesis

CA-08516-1 VR KRAFT, LISBETH M., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa. Studies of microbial commensalism in animals

CA-09053-15 AI SPRUNT, DOUGLAS H., Univ. Tennessee, Memphis, Tenn. Development of serological test for cancer

CA-09187-13 CY POEL, WILLIAM E., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa. Mechanisms and bioassay techniques in carcinogenesis

CA-09212-13 TOX SHUBIK, PHILIPPE, Chicago Med. Sch., Chicago, Ill. Environmental chemical carcinogenesis

CA-09247-13 NSS CREECH, HUGH J., Cancer Research, Inc., Philadelphia, Pa. Subsidy for the journal, Cancer Research

CA-09263-13 HUE WINSHIP, THEODORE, Washington Hosp. Cr., Washington, D.C. Carcinoma of the thyroid in children

CA-09346-12 NSS WOERDEMAN, MARTINUS W., Excerpta Media Fdn., Amsterdam, Netherlands Continuation of the Cancer section of Excerpta Medica

CA-09369-10 RAD HENSCHKE, ULRICH K., Sloan Kettering Inst., New York, N.Y. Cancer therapy by implantation with radioisotopes

CA-09386-11 GM JEFFRIES, GRAHAM H., Sch. Med., Cornell Univ., New York, N.Y. Starch gel electrophoretic studies of gastric juice

Gastroenterology 46,(No 4):434, Apr 64. Malabsorption.

J Clin Invest 41, (No 5):1106, 62. Antibody to intrinsic factor in serum from patients with pernicious anemia.

CA-09467-9 GM KIRSNER, JOSEPH B., Sch. Med., Univ. Chicago, Chicago, Ill. Ulcerative colitis as a precancerous problem

Am J Med 36:856, 64. Diseases of the liver in chronic ulcerative colitis.

Cancer 17:657, 64. Carcinoma of the colon in ulcerative colitis.

Clin Res 13:251, 65. Positive epinephrine skin tests ("Circulating endotoxin") in inflammatory bowel disease.

Curr Ther Res 7:324, 65. Corticosteroid therapy of ulcerative colitis: Status after 15 years.

Dis Colon Rectum 7:336, 64. Carcinoma of the colon complicating ulcerative colitis--Report of ten cases.

Gastroenterology 46:329, 64. Immunofluorescent studies of chronic nonspecific ulcerative colitis.

JAMA 188:680, 64. Steroid therapy and infections.

Med Clin N Am 48:143, 64. Irreversibility and reversibility in ulcerative colitis.

Med Clin N Am 49:17, 65. The arthritis of ulcerative colitis and regional enteritis ("intestinal arthritis").

CA-09482-8 RAD **BLOEDORN, FERNANDO G., Sch. Med., Univ. Maryland, Baltimore, Md. Investigation urinary bladder cancer radiation therapy**
Radiology 79:576, Oct 62. Radiotherapy in carcinoma of the bladder: Possible complications and their prevention.

CA-09546-8 PATH **SEGAL, HARRY L., Sch. Med., Univ. Rochester, Rochester, N.Y. Measurement of enzyme activities in body fluids**
Am J Physiol 205:1099, 63. Separation of pepsinogen I, pepsinogen II, and pepsinogen III from human gastric mucosa.
Am J Physiol 205:1106, 63. Separation of pepsin I, pepsin II A, pepsin II B, and pepsin III from human gastric mucosa.
Am J Physiol 206:1106, 64. Separation of pepsinogen II and pepsinogen III from human urine.
Am J Physiol 207:8, 64. Chromatographic separation of pepsins from human gastric juice.
Biochemistry 3:1, 64. Some observations on the conversion of three different human pepsinogens to their respective pepsins.
Biochemistry 3:5, 64. Effect of concentration of substrate and of chloride on the optimum pH for the proteolysis of bovine serum albumin by pepsin III.
Biochemistry 3:1203, 64. Partial characterization of human pepsin I, pepsin II A, pepsin II B, and pepsin III.

CA-09559-8 PATH **SHUBIK, PHILIPPE, Chicago Med. Sch., Chicago, Ill. Provisions of abstracts of carcinogenesis literature**

CA-09568-8 MET **NELSON, NORTON, New York Univ. Med. Cr., New York, N.Y. Aromatic amines and bladder cancer**
Biochem Biophys Res Commun 14:463, 64. Effect of chemical modification of DNA on its priming activity with RNA polymerase.
Fed Proc 24:664, 65. The in vivo effect of a carcinogen on the priming efficiency of rat liver DNA in the RNA polymerase system.
Proc Am Assn Cancer Res 6:5, 65. Effect of feeding 2-acetylaminofluorene on rat liver DNA priming activity with RNA polymerase.
Proc Am Assn Cancer Res 6:65, 65. N-hydroxy acetyl amino compounds, urinary metabolites of aromatic amines in man.

CA-09594-7 PATH **COLE, WARREN H., Col. Med., Univ. Illinois, Chicago, Ill. Cancer cells in the circulating blood**
Acta Cytol 8:343, 64. Cytological changes of magakaryocytes in patients with carcinoma.
Surg Forum 15:346, 64. Effect of surgery on hematopoetic nucleated cells in the blood of cancer patients.

CA-09599-7 PATH **WATTENBERG, LEE W., Sch. Med., Univ. Minnesota, Minneapolis, Minn. A histochemical study of cancer of the large bowel**
Med Bull 36, (No 5):178, Jan 65. Chemoprophylaxis of chemical carcinogenesis.

CA-09617-6 PATH **ALBAUM, HARRY G., Beth Israel Hosp., New York, N.Y. Serum enzymes in cancer**

CA-09673-6 SURG **CORDONNIER, JUSTIN J., Washington Univ., St. Louis, Mo. Evaluation of cystectomy and ileal loop diversion**
J Urol 92:358, 64. Bilateral pyeloileostomy.
J Urol 92:627, 64. Treatment of late ureteroileal stenosis following ileal segment urinary diversion.

CA-09683-6 HUE **RUBIN, ALAN, Hosp. of Univ. Pennsylvania, Philadelphia, Pa. Prospective study of cancer in families**

CA-09684-6 GEN **ROTKIN, I.D., Kaiser Fdn. Hosp., Oakland, Cal. Genetic and environmental studies in cervical cancer**

CA-09712-6 RAD **PALMER, WALTER L., Sch. Med., Univ. Chicago, Chicago, Ill. The neoplastic potential of gastric irradiation**

CA-09724-5 PATH **RUSSELL, WILLIAM O., Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Texas Trace metal patterns in normal and malignant tissue**

CA-09734-5 BIO **FISHMAN, WILLIAM H., New England Cr. Hosp., Boston, Mass. Tissue origin of serum alkaline phosphatase**

CA-09741-6 HUE **SPRATT, JOHN S., Jr., Sch. Med. Washington Univ., St. Louis, Mo. Biometry of colonic and rectal neoplasms**
Am J Roentgen 90:673, 63. Rates and patterns of growth of 375 tumors of the large intestine and rectum observed serially by double contrast enema study (Malmo technique).
Am J Surg 109:71, 65. Frequency of multiple primary malignant neoplasms associated with colorectal carcinoma.
Ann Surg 159:161, 64. Rates of growth of pulmonary metastases and host survival.
Ann Surg 161:309, 65. Endemic and morphological similarities existing between spontaneous colonic neoplasms in man and 3,2'-dimethyl-4-aminobiphenyl induced colonic neoplasms in rats.
Arch Surg 89:16, 64. Surgical mortality and survival from colonic carcinoma.
Cancer 17:1457, 64. Operative implantation on villous adenomas into the soft tissue.
Cancer 18:14, 65. Rates of growth of skeletal sarcomas.
Hosp Med 1:4, 64. Colonic cancer and colonic polyps.
Radiology 83, (No 2):208, Aug 64. The detection and treatment of postirradiationally recidivated cancers of the cervix uteri.

CA-09745-5 RAD **SHERMAN, ALBERT I., Sch. Med., Washington Univ., St. Louis, Mo. Comparison of betatron and radiocoid for cervix cancer**

CA-09747-5 RAD **GRAHAM, JOHN B., Roswell Park Mem. Inst., Buffalo, N.Y. Treatment and prognosis of uterine cancer**

CA-09751-6 HUE **MUSTACCHI, PIERO, Children's Hosp., San Francisco, Cal. An epidemiologic study of leukemia in San Francisco**
Proc Am Coll Physicians Reg Mtg, Palm Springs, Calif, p. 43, 65. Multiple myeloma in San Francisco physicians.

CA-09761-5 PATH **GROISSER, VICTOR W., Sch. Med., Dent., New Jersey Med. Col., Jersey City, N.J. Long term study in gastrointestinal cytology**
Am J Dig Dis 10, (No 1):1, Jan 65. Utility of cells exfoliated onto the esophagoscope as an aid in the diagnosis of esophageal carcinoma.

CA-09791-5 GM **HASEGAWA, JUNJI, Northwestern Univ. Med. Cr., Chicago, Ill. Exopeptidases in human cutaneous neoplasms**

CA-09808-5 HUE **EISENBERG, HENRY, Conn. State Dept. Hlth., Hartford, Conn. Studies in cancer epidemiology**
Ann NY Acad Sci 114:771, Apr 64. Cancer in the aged.
Ann NY Acad Sci 114:896, Apr 64. Some characteristics of multiple primary cancers.
Brochure: Cancer in Connecticut, Mortality Data, 1949-1961, Conn Dept Health, 64.
Conn Health Bull 77:5, May 62. Lung cancer mortality, 1949-1961.
Connecticut Health Bull 79:1, Jan 65. Trends in mortality by age for selected cancer sites.
Conn Med 26, (No 2):71, Feb 62. Castration following radical mastectomy for breast cancer. A preliminary study.
J Chron Dis 17:667, 64. Geographic variations in the incidence of esophageal cancer.
J Chron Dis 17:1033, 64. Cancer of the bronchus and lung, Connecticut 1935-59.
J Nat Cancer Inst 26, (No 2):489, Feb 61. Survival of patients with cancer of the large intestine and rectum, Connecticut, 1935-54.
Nat Cancer Inst Monogr 6:49, 61. Trends in survival rates of cancer patients: Connecticut and California.
Nat Cancer Inst Monogr 15:301, 64. Cancer of the large intestine and rectum: Comparative data from Connecticut and Norway, 1953-1958.

CA-09815-4 CY **KURATSUNE, MASANORI, Sch. Med., Kyushu Univ., Fukuoka, Japan Carcinogenesis of the stomach and esophagus**
Gann 56, (No 2), 65. Carcinogenesis in the esophagus. I. Penetration of benzo[a]pyrene and other hydrocarbons into the esophageal mucosa.

Publications received from terminated CA projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

Contr. CA-58-2357 **Syntex S.A., Mexico City, Mexico Operation of lab. for preparation of commercially unobtainable steroids**

Contr. CA-58-2390 **Health Research, Buffalo, N.Y. Continue project for iso-antigenic typing of mouse strains**

Contr. CA-59-3016 **Seton Hall College, Jersey City, N.J. Operation of ectromelia diagnostic lab and study on mouse diseases**

Contr. CA-60-2433 **Southern Research, Birmingham, Ala. Use of chromatogram-autoradiogram technique to study cell differences**

Contr. CA-60-3057 **Merck and Co., Rahway, N.J. Continue maintenance of human transplantable tumors in chick eggs**

Contr. CA-60-3072 — Stanford Res. Inst., Menlo Park, Cal. Evaluate antitumor drugs in tumorigenic virus-tissue culture systems

Contr. CA-61-3764 — Riker Labs., Northridge, Cal. Maintenance of prep lab to prepare materials for cancer research

Contr. CA-61-4320 — Parke-Davis and Co., Detroit, Mich. Establishment and operation of a small scale synthesis prep. lab.

Contr. CA-61-4344 — Temple Univ., Philadelphia, Pa. Evaluation of breast tumor induced in rats

Contr. CA-61-4349 — I I T Research Inst., Chicago, Ill. Screening of chemicals and antibiotic culture filtrates

Contr. CA-61-4351 — Research Triangle, Durham, S.C. Preparation of novel steroid hormone analogues

Contr. CA-61-4356 — Microbiological Assoc., Inc., Bethesda, Md. Continue dev. of mouse virus typing and diagnostic reagents

Contr. CA-61-4358 — Southern Research, Birmingham, Ala. Developmental work on endocrine-related tumor systems

Contr. CA-61-4381 — Medical Literature, Philadelphia, Pa. Continue abstracting articles on cancer chemotherapy literature

Contr. CA-61-4396 — Charles Pfizer Co., Maywood, N.J. Establish and operate a pharmaceutical pilot plant

Contr. CA-61-4399 — Univ. Arizona, Tucson, Ariz. Develop an Indian population register

Contr. CA-62-143 — Georgetown Univ., Washington, D.C. To establish and operate a tissue procurement facility

Contr. CA-62-144 — Pfizer and Co., Inc., Maywood, N.J. Estab. and operation of a facility for conducting virus research

Contr. CA-62-161 — Microbiological, Bethesda, Md. Maintenance of stocks of hybrid and inbred mouse strains

Contr. CA-62-168 — Upjohn Co., Kalamazoo, Mich. Development of techniques for analysis of antitumor beers and extracts

Contr. CA-62-179 — Presbyterian St. Lukes Hosp., Chicago, Ill. Use of marmoset as lab. animal in tumor virus research

Contr. CA-62-184 — Collaborative Res., Waltham, Mass. Continue synthesis of mustard derivatives

Contr. CA-62-412 — Bionetics Research Lab., Falls Church, Va. Investigation of selected virus preparations in newborn monkeys

Contr. CA-62-423 — Airborne Instruments, Long Island, N.Y. Design automated material and data handling system for clinic lab.

Contr. CA-62-441 — New Jersey Col. Med., Jersey City, N.J. Project for collecting fresh tumor tissue for biochemical studies

Contr. CA-62-457 — Georgetown Univ., Washington, D.C. Control and coordination of clinical evaluation studies

Contr. CA-62-467 — Illinois Univ., Chicago Ill. Continue supervision and coordinating clinical studies on cancer

Contr. CA-62-479 — Merck and Co., Rahway, N.J. Lab. for preparation of commercially unobtainable compounds

Contr. CA-62-482 — University Labs., Highland Park, N.J. Production of standardized Rous sarcoma viruses and antisera

Contr. CA-62-484 — Starks Associates, Buffalo, N.Y. Maintenance of lab. for synthesis of various compounds

Contr. CA-62-488 — Battelle Memorial, Columbus, Ohio Provide for operation of trust stock colony of mice

Contr. CA-62-495 — Battelle Memorial, Columbus, Ohio Provide for screening of anticancer agents against tumors

Contr. CA-62-498 — Texas Inbred Mice, Houston, Tex. Maintain genetic center for production of inbred mice

Contr. CA-62-500 — A.D. Little, Inc., Cambridge, Mass. Continue development of methods for screening chemical compounds

Contr. CA-62-505 — Connecticut Univ., Storrs, Conn. Establish a pathogen-free flock of white leghorn chickens

Contr. CA-62-506 — Western Reserve Univ., Cleveland, Ohio Development of inbred rabbits for immunological studies with cancer

Contr. CA-62-832 — Stanford Res. Inst., Menlo Park, Cal. Study of viruses involved in chemically induced adenocarcinomas

Contr. CA-62-4408 — A.D. Little, Inc., Cambridge, Mass. Continue performance of various types of in-vitro screening

Contr. CA-63-13 — Univ. California, Berkeley, Cal. Certification and standardization of mammalian cell cultures

Contr. CA-63-43 — Health Research, Buffalo, New York Establish and operate tissue procurement facility

Contr. CA-63-44 — Oregon State Univ., Corvallis, Ore. Bioassay of selenium compounds for carcinogenesis in rats

Contr. CA-63-49 — Hlth. Ins. Plan of N.Y., New York, N.Y. Study value of mammography in reducing breast cancer mortality

Contr. CA-63-56 — Zoological Soc. San. Diego, San Diego, Cal. Experimental breeding of non-human primates

Contr. CA-63-68 — Southern Research, Birmingham, Ala. Antiviral properties of biologically active compounds

Contr. CA-63-82 — Columbia Univ., New York, N.Y. Survey of the effects of thyroxine on mouse tumors

Contr. CA-63-94 — Schmidt Co., Madison, Wis. To develop a disease-free colony of hamsters

Contr. CA-63-556 — Upjohn Co., Kalamazoo, Mich. Biochemistry of infection of mammalian cells by tumor

Contr. CA-63-558 — Univ. Hawaii, Honolulu, Hawaii Japanese cancer cases and controls

Contr. CA-63-565 — Health Research, Buffalo, N.Y. Continue statistical service on adjuvant studies and drugs evaluation

Contr. CA-63-590 — Baylor Univ., Houston, Texas Viruses related to human cancer with emphasis on leukemia

Contr. CA-63-593 — Health Research, Buffalo, N.Y. Process and evaluate human leukemic tissues and serum

Contr. CA-63-617 — Woodard Res. Corp., Herndon, Va. Carcinogenesis in newborn rats and hamsters

Contr. CA-63-622 — Hazleton Lab., Falls Church, Va. Mouse screening and methodology

Contr. CA-63-1131 — Wyeth Labs., Philadelphia, Pa. Isolate potential antitumor agents from microbial fermentations

Contr. CA-63-1136 — Univ. Arizona, Tucson, Ariz. Provide for collection and preparation of plant extracts

Contr. CA-63-1142 — National Drug Co., Philadelphia, Pa. Development of screening procedures

Contr. CA-63-1146 — Mason Research Inst., Worcester, Mass. Immunological characterization studies

Contr. CA-63-1147 — Res. Fdn. State Univ. New York, Albany, N.Y. To provide consultant and statistical services

Contr. CA-63-1148 — Connecticut Dept. Mental Health, Hartford, Conn. Research into statistical information on cancer cases

Contr. CA-63-1153 — Yale Univ., New Haven, Conn. Develop new histochemical techniques in electron microscopy

Contr. CA-63-1154 — Beth Israel Hosp., Boston, Mass. Analysis of blood in detection of cancer

Contr. CA-63-1155 — Univ. Louisville, Louisville, Ky. Morbidity survey of uterine cancer

Contr. CA-63-1161 — Baltimore Biological Lab., Baltimore, Md. Conduct studies of mouse viruses

Contr. CA-63-1165 — General Foods Corp., White Plains, N.Y. Study on oxidation of fats

Contr. CA-63-1168 — Hazleton Labs., Falls Church, Va. Anti-tumor drug study

Contr. CA-64-10 — Tohoku Univ. Sch. Med., Kitayobancho Sendai, Japan Study of shifts in cancer risks among Japanese migrants to U.S.

Contr. CA-64-13 — Michigan Univ., Ann Arbor, Mich. Continue collecting data on cancer patients for end results program

Contr. CA-64-20 — North Carolina Univ., Chapel Hill, N.C. Conduct experimental design and statistical services for clinical trials

Contr. CA-64-22 — Wells Labs., Inc., Jersey City, N.J. Toxicity evaluations of steroids on experimental animals

Contr. CA-64-23 — Ochsner A. Med. Fdn., New Orleans, La. Coord. clinical evaluation studies of breast cancer hormone therapy

Contr. CA-64-30 — Mass. Health Res., Boston, Mass. Collect data on cancer patients for end results program

Contr. CA-64-31 — Costa Rica Univ., San Jose, Costa Rica Continuation of collection and test of plant life

Contr. CA-64-36 — Univ. California, Berkeley, Cal. Operation of a statistical service center

Contr. CA-64-37 — Einstein Med. Center, Philadelphia, Pa. Development of a reference center for data on occupational mental health

Contr. CA-64-42 — Univ. California, San Francisco, Cal. Research of carcinogenic material on epithelium growth

Contr. CA-64-44 — Natl. Acad. Sci., Washington, D.C. Continue activity of U.S. Nat. Comm. on the Int. Union against Cancer

Contr. CA-64-44 T.O.6 — National Academy Science, Washington, D.C. Standards for breeding care and management of laboratory rabbits

Contr. CA-64-44 T.O.14 — National Academy Science, Washington, D.C. Maintenance of the soft tissue center at armed forces inst.

Contr. CA-64-44 — National Academy Science, Washington, D.C. Workshop related to lab. animal resources

Contr. CA-64-44 T.O.20 — National Academy Science, Washington, D.C. Analysis of radiation effects on mortality or sex-ratio of offspring

Contr. CA-64-44 T.O.21 — National Academy Science, Washington, D.C. Editing of manuscripts for the atlas of tumor pathology

Contr. CA-64-44 T.O.23 — National Academy Science, Washington, D.C. Investigation of factors in the etiology of cancer in army veterans

Contr. CA-64-45 — Cincinnati Univ., Cincinnati, Ohio Evaluation of the potency of hydrocarbons

Contr. CA-64-46 — Hosp. for Joint Dis., New York, N.Y. Continue mammary evaluation study in rats and mice

Contr. CA-64-50 — Pfizer and Co., Inc., Brooklyn, N.Y. In-plant screening methodology and pharmacology

Contr. CA-64-51 — Southern Research, Birmingham, Ala. Research and synthesis of potential anti-cancer agents

Contr. CA-64-52 — Marquette Univ., Milwaukee, Wis. Continue the trophoblast study center

Contr. CA-64-55 — Merck and Co., Rahway, N.J. Continue study of viruses in human and animal neoplasia

Contr. CA-64-57 — Bionetics Research Lab., Falls Church, Va. Continue studies of carcinogenesis

Contr. CA-64-64 — Lawrence Univ., Lawrence, Kans. Maintain a nucleus colony of inbred mice of various strains

Contr. CA-64-66 — Southern Research, Birmingham, Ala. Carcinogenic activity study of compounds in female rats

Contr. CA-64-80 — Miami Univ., Coral Gables, Fla. Continue testing biological effectiveness of steroids on tumors

Contr. CA-64-83 — Charity Hosp. of La., New Orleans, La. Statistical services--CCNSC end results program

Contr. CA-64-85 — Mich. State Univ., East Lansing, Mich. Continue data collecting for veterinary hospitals

Contr. CA-64-88 — Ohio State Univ. Research Fdn., Columbus, Ohio Circulating cancer cells in peripheral blood and bone marrow

Contr. CA-64-102 — Am. Natl. Red Cross, Washington, D.C. Prepare and supply platelet concentrates from whole blood

Contr. CA-64-488 — Childrens Cancer Research Fdn., Boston, Mass. Clinical trials and study of blood platelets

Contr. CA-64-492 — Children's Hosp. of Phila., Philadelphia, Pa. Continue study of platelets and white blood cells transfusion

Contr. CA-64-495 — Jefferson Med. Col., Philadelphia, Pa. Continue study on action of steroid hormones on tumor growth

Contr. CA-64-499 — Norwegian Public Health, Oslo, Norway Study shifts in cancer risks among Norwegian migrants to U.S.

Contr. CA-64-500 — Stanford Res. Inst., Menlo Park, Cal. Synthesis of compounds as anticancer agents

Contr. CA-64-504 — Univ. Pittsburgh, Pittsburgh, Pa. Deliver rapid reliable assay of carcinogenicity

Contr. CA-64-508 — Upjohn Co., Kalamazoo, Mich. Preparation of commercially unobtainable chemical compounds

Contr. CA-64-515 — George Washington University, Washington, D.C. Investigations of virus induced tumors

Contr. CA-64-522 — Commonwealth Science, Melbourne, Australia Collection, preparation and fractionation of plant extracts

Contr. CA-64-524 — Western Reserve Univ., Cleveland, Ohio Epidemiological study of children inoculated with SV40

Contr. CA-64-534 — Brandeis Univ., Waltham, Mass. Early detection of cancer

Contr. CA-64-540 — Childrens Hosp., Los Angeles, Cal. To provide whole blood platelets

Contr. CA-64-546 — Childrens Cancer Research Fdn., Boston, Mass. Continue studies of airborne carcinogens

Contr. CA-64-551 — Univ. Wisconsin, Madison, Wis. Isolation of tumor inhibitors from plant sources

Contr. CA-64-555 — Ohio State Univ. Res. Fdn., Columbus, Ohio Urinary cytology as diagnostic approach to cancer of bladder

Contr. CA-64-560 — Univ. Utah, Salt Lake City, Utah Isolation and characterization of ecdysone

Contr. CA-64-579 — Univ. California, Berkeley, Cal. Mouse mammary glands subjected to chemical carcinogens

Contr. CA-64-866 — Columbia Univ., New York, N.Y. Preparation of steroid protein conjugates

Contr. CA-64-877 — West Virginia Univ., Morgantown, W.Va. Improvement of circulating cancer cells investigations

Contr. CA-64-878 — Univ. Illinois, Chicago, Ill. Blood atlas project

Contr. CA-64-881 — Tulane Univ., New Orleans, La. Suitability of tree shrews as lab. animals

Contr. CA-64-884 — Medical Literature, Inc., Philadelphia, Pa. Indexing cancer chemotherapy literature

Contr. CA-64-886 — Univ. San Francisco, San Francisco, Cal. Testing of metal cyclopentadiene compounds for carcinogenicity

Contr. CA-64-890 — Univ. Miami, Coral Gables, Fla. Testing for cytotoxicity of chemical agents

Contr. CA-64-906 — Univ. Texas, Houston, Texas Platelet transfusions in management of patients with acute leukemia

Contr. CA-64-911 — Microbiological, Bethesda, Md. Operation of cancer chemotherapy lab. facilities

Contr. CA-64-917 — Univ. Texas, Houston, Texas Provide statistical services for clinical trial studies

Contr. CA-64-925 — Univ. Utah, Salt Lake City, Utah Establish a colony of inbred germ-free mice

Contr. CA-64-932 — South Shore Analytical, Islip, N.Y. Evaluation of experimental cancer chemotherapeutic agents

Contr. CA-64-933 — Food and Drug Res. Lab., Maspeth, N.Y. Mucus flow in animals exposed to tobacco smoke

Contr. CA-64-938 — New York Univ. Med. Cr., New York, N.Y. Tumor-promoting principles of tobacco

Contr. CA-64-1158 — General Foods Corp., White Plains, N.Y. Bioassays of piperonyl compounds

Contr. CA-64-1159 — Bristol-Myers Co., Syracuse, N.Y. Provide for development of antitumor agents

Contr. CA-64-1162 — Melpar, Inc., Falls Church, Va. Production of tissue culture fluids containing DNA viruses

Contr. CA-65-2 — Burrough Bros. Pharm., Baltimore, Md. Tableting of materials for clinical programs

Contr. CA-65-4 — Univ. Chicago, Chicago, Ill. Abstract code follow-up and submit statistical data on cancer cases

Contr. CA-65-5 — Univ. California, Berkeley, Cal. Preparation and submission of coded cancer data

Contr. CA-65-6 — Mason Res. Inst., Worcester, Mass. Test compounds for endocrine and anti-tumor effects in tumor systems

Contr. CA-65-7 — Mich. Dept. of Hlth., Lansing, Mich. Test antibiotic beers and preparations by tissue culture assay

Contr. CA-65-9 — Lab. Supply Co., Indianapolis, Ind. Breeding and production of 130,000 BDF1 hybrid mice

Contr. CA-65-10 — Lab. Supply Co., Indianapolis, Ind. Breed and produce 26,000 pseudomonas-free BDF1 hybrid male mice

Contr. CA-65-11 — Cutter Laboratories, Berkeley, Cal. Investigate the effects of chemotherapy on viruses

Contr. CA-65-13 — Chas. River Breeding, North Wilmington, Mass. Delivery of 41,600 Fischer 344 rats

Contr. CA-65-14 — Scripps Clinic Res. Fdn., La Jolla, Cal. Study in purification of dihydrofolic reductase from mammalian tissue

Contr. CA-65-16 — Wyeth Labs., Philadelphia, Pa. Study immunological effect of carcinogen, co-carcinogen and anti-carcinogen

Contr. CA-65-19 — Wright-Fleming Inst., London, England Produce and del. 200 dozen gradocol membranes for use in sizing viruses

Contr. CA-65-25 — Dublin Lab. Animals, Dublin, Va. Production and delivery of 41600 CHKRF1 mice

Contr. CA-65-27 — Creighton Univ., Omaha, Nebr. Prepare and furnish commercially unobtainable compounds

Contr. CA-65-34 — Jackson Lab., Bar Harbor, Maine Breed, produce and deliver 58890 mice of various strains

Contr. CA-65-37 — White Eagle Farms, Doylestown, Pa. Breed, produce and deliver 120 beagle hound dogs

Contr. CA-65-40 — City Hosp., Padua, Italy Provide human mammary adenocarcinoma specimens to NIH for res. program

Contr. CA-65-42 — Hawaii Univ., Honolulu, Hawaii To test compounds for antiviral and antitumor activity

Contr. CA-65-43 — Stanford Res. Inst., Menlo Park, Cal. Eval. antitumor drugs in tumorigenic virus tissue culture systems

GRANT NUMBER LISTING AND BIBLIOGRAPHY

Contr. CA-65-44 — Health Research, Buffalo, N.Y. Provide iso-antigenic typing of mouse strains and tumors

Contr. CA-65-45 — Univ. Michigan, Ann Arbor, Mich. Design and conduct statistical servicing on evaluation of drugs

Contr. CA-65-46 — Einstein Med. Center, Philadelphia, Pa. Provide for develop. human wart virus assay for antiviral drug testing

Contr. CA-65-47 — Medical Literature, Philadelphia, Pa. Prepare carcinogensis abstracts

Contr. CA-65-49 — Natl. Assn. Ed. Broadcasters, Urbana, Ill. Produce and broadcast a series of informational programs

Contr. CA-65-51 — Mason Res. Institute, Worcester, Mass. Preclinical evaluation of compounds

Contr. CA-65-52 — Jackson Laboratory, Bar Harbor, Maine Breed produce and deliver approximately 176670 inbred mice

Contr. CA-65-53 — Georgetown Univ., Washington, D.C. Human breast cancer virus studies

Contr. CA-65-55 — Simonsen Labs., Gilroy, Cal. Maintain nucleus colony of inbred and or hybrid mice of var strains

Contr. CA-65-57 — Simonsen Labs., Gilroy, Cal. Breed produce and deliver 26000 Fischer 344 CD rats

Contr. CA-65-58 — Missouri Univ., Columbia, Mo. Testing and maintenance of veterinary records

Contr. CA-65-60 — Univ. Minn., Minneapolis, Minn. Testing and maintenance of veterinary records

Contr. CA-65-61 — A.D. Little, Inc., Cambridge, Mass. Conduct primary screening, drug evaluation

Contr. CA-65-65 — South Jersey Med. Res. Fdn., Camden, N.J. Etiological study of bovine leukemia

Contr. CA-65-66 — Rawley Farms, Plymouth, Mich. Breed produce and deliver approximately 104000 BDF1 hybrid mice

Contr. CA-65-67 — Chicago Med. School, Chicago, Ill. Carcinogenesis bioassays and fundamental research

Contr. CA-65-73 — Chemical Abstracts, Columbus, Ohio Provide chemical nomenclature services

Contr. CA-65-75 — Microbiological Assoc., Inc., Bethesda, Md. Breed produce and deliver approximately 1688 inbred rats

Contr. CA-65-77 — Neisler Labs., Decatur, Ill. Establish and operate a preparation laboratory

Contr. CA-65-78 — Medical Res. Consult., Columbus, Ohio Perform analysis of human urine specimens

Contr. CA-65-79 — Hazleton, Falls Church, Va. Carcinogenic studies in newborn primates

Contr. CA-65-80 — So. Animal Farms, Prattville, Ala. To produce and deliver 41600 CHKRF1 hybrid mice

Contr. CA-65-88 — Documentation, Inc., Bethesda, Md. Provide data processing services

Contr. CA-65-93 — Dublin Lab. Animals, Dublin, Va. Breed, produce and deliver approximately 100 Beagle hound dogs

Contr. CA-65-94 — Midwest Res. Inst., Kansas City, Mo. Synthesis of pyrimidines

Contr. CA-65-95 — Germfree Life Res., Tampa, Fla. Develop and supply normal and tumor-bearing germfree animals

Contr. CA-65-97 — Hospital for Sick Children, Toronto, Ontario, Canada Collection and delivery of leukemic and nonleukemic blood specimens

Contr. CA-65-99 — Sloan-Kettering Inst., New York, N.Y. Immunological studies of murine viruses including leukemias

Contr. CA-65-100 — Michigan State Univ., East Lansing, Mich. Perform leukemic transmission studies

Contr. CA-65-558 — National Sci. Teachers Assn., Washington, D.C. Preparation of a teachers guidebook

Contr. CA-65-561 — Schmidt Company, Madison, Wis. Breed produce and deliver approximately 130000 BDF1 hybrid mice

Contr. CA-65-564 — Lakeview Hamster, Newfield, N.J. Production and delivery of 3,500 hamsters

Contr. CA-65-565 — Microbiological, Bethesda, Md. Breed produce and deliver 2600 inbred mice

Contr. CA-65-567 — George Washington Univ., Washington, D.C. Develop a script and produce a 30-minute film on leukemia

Contr. CA-65-569 — Roma Kennels, Dunstable, Mass. Breed, produce and deliver approximately 48 Beagle hound dogs

Contr. CA-65-573 — Louisiana State Univ., New Orleans, La. Statistical services for breast cancer group

Contr. CA-65-575 — Stanford Res. Inst., Menlo Park, Cal. Mechanism of action of cancer agents in mammalian tissues

Contr. CA-65-576 — Pied Piper Farms, Newark, Del. Produce and deliver approximately 1410 guaranteed pregnant Syrian hamsters

Contr. CA-65-578 — Dennen Animal Ind., Gloucester, Mass. Produce and deliver approximately 1400 pregnant hamsters

Contr. CA-65-579 — Lakeview Hamster, Newfield, N.J. Deliver 1150 pregnant hamsters

Contr. CA-65-585 — Univ. Texas, Houston, Texas Relationship of viruses to human leukemia and lymphoma

Contr. CA-65-587 — Microbiological, Bethesda, Md. Maintain a drug distribution service

Contr. CA-65-589 — Harvard Col., Cambridge, Mass. Develop means for the detection of residual malignant cells

Contr. CA-65-590 — Engles Hamstery, Terre Haute, Ind. Breed produce and deliver 2,750 golden Syrian hamsters

Contr. CA-65-592 — Endocrine Labs., Madison, Wis. Conduct standard endocrine bioassays

Contr. CA-65-593 — Tulane Univ., New Orleans, La. Establish and maintain prime genetic center for rats and guinea pigs

Contr. CA-65-594 — Southern Research, Birmingham, Ala. Conduct screening programs and develop methodology, tissue culture and antimicrobiological screening

Contr. CA-65-596 — Univ. Chicago, Chicago, Ill. Testing of steroid sex hormones for growth in mammalian tissues

Contr. CA-65-601 — Medical Literature, Philadelphia, Pa. Prepare abstracts of published articles

Contr. CA-65-604 — Univ. Texas, Houston, Texas Immunofluorescence studies in human leukemia and lymphoma

Contr. CA-65-605 — Research Fdn., State Univ. New York, Albany, New York Study structure of tumor viruses and particles in bovine tissues

Contr. CA-65-606 — Univ. Minnesota, St. Paul, Minn. Determination of susceptibility of calves to tumor viruses

Contr. CA-65-609 — Univ. California, Berkeley, Cal. Conduct leukemia studies and construction of facilities

Contr. CA-65-612 — Einstein Medical Cr., New York, N.Y. Study on genetics of susceptibility to oncogenic viruses

Contr. CA-65-614 — A.R. Schmidt, Co., Madison, Wis. Breed, produce and deliver Fischer 344 rats from Caesarian section

Contr. CA-65-616 — Health Research, Buffalo, N.Y. Development of large volume of leukemic cells

Contr. CA-65-617 — Taconic Farms, Germantown, N.Y. Breed, produce and deliver 44,000 BDF1 hybrid mice

Contr. CA-65-619 — Sloan-Kettering Inst., New York, N.Y. Experimental cancer chemotherapy studies

Contr. CA-65-620 — Cornell Univ., Ithaca, N.Y. Leukemia studies in the cat

Contr. CA-65-622 — Univ. Texas, Houston, Texas Study of mycoplasma with animal and human leukemia materials

Contr. CA-65-623 — Univ. California, Berkeley, Cal. Establish the marsupial as a laboratory research animal

Contr. CA-65-624 — Laboratory Supply, Indianapolis, Ind. Breed and deliver 22,000 hybrid male mice

Contr. CA-65-625 — Univ. California, Berkeley, Cal. Uniformity of dosage distribution in lung cancer irradiation

Contr. CA-65-627 — Simonsen Lab., Gilroy, Cal. Breed produce and deliver approximately 52,500 hybrid mice

Contr. CA-65-628 — Univ. Texas, Houston, Texas Perform testing of human leukemia and lymphoma specimens in marmosets

Contr. CA-65-629 — Univ. Pennsylvania, Philadelphia, Pa. Determination of the normal and leukemic state in cattle

Contr. CA-65-634 — Flow Labs., Rockville, Md. Establish and maintain a virus laboratory for cancer research

Contr. CA-65-635 — Hazleton Labs., Falls Church, Va. Production of Rauscher murine leukemia virus and spleen virus

Contr. CA-65-636 — Health Res., Buffalo, N.Y. Studies of polio-mammalian cell relationship

Contr. CA-65-639 — Univ. Michigan, Ann Arbor, Mich. Research relating to etiological agent in human leukemia

Contr. CA-65-641 — Melpar, Inc., Falls Church, Va. Human embryonic tissue and cell biology facility

Contr. CA-65-643 — California Biochem., Los Angeles, Cal. Convert 19 MC of tirfluorthymine to trifluorothymidine

Contr. CA-65-654 — Southern Research, Birmingham, Ala. Develop methodology pertinent to eradication of leukemic cells

Contr. CA-65-988 — Colorado State Univ., Fort Collins, Colo. Study survival probability of cancer patients

Contr. CA-65-990 — A.D. Little, Inc., Cambridge, Mass. Toxicity of anticancer drugs given intracranially

Contr. CA-65-991 — Herner Co., Washington, D.C. To punch cards into information retrieval system

Contr. CA-65-999 — Univ. Minnesota, St. Paul, Minn. Develop system for the care of low resistance patients

Contr. CA-65-1000 — Southwest Research, San Antonio, Texas Physical and chemical properties of free radicals and alkyl agents in tobacco smoke

Contr. CA-65-1001 — Ohio State Univ. Res. Fdn., Columbus, Ohio Aerosol study of hazards of experimental leukemia research

Contr. CA-65-1002 — Wistar Institute, Philadelphia, Pa. The role of mycoplasma isolated from human leukemia

Contr. CA-65-1005 — Sloan-Kettering, New York, N.Y. Life island study in chemotherapeutic treatment

Contr. CA-65-1008 — Univ. Texas, Houston, Texas Research on effects of germ-free environment on cancer chemotherapy

Contr. CA-65-1012 — Flow Labs., Rockville, Md. Establish and maintain a low temperature repository for storage of serum

Contr. CA-65-1013 — Univ. Pennsylvania, Philadelphia, Pa. Experimental and natural transmission of bovine leukemia

Contr. CA-65-1015 — Olson Contract Co., Madison, Wis. Breeding, production and delivery of 3,500 golden Syrian hamsters

Contr. CA-65-1017 — Chicago Park Dist., Chicago, Ill. Establish and maintain a marmoset breeding colony

Contr. CA-65-1018 — Notre Dame Univ., Notre Dame, Ind. Development of a virus-free, germ-free mouse

Contr. CA-65-1020 — Montreal Childrens Hosp., Montreal, Quebec, Canada Procurement of plasma from human leukemic controls

Contr. CA-65-1021 — Chem. Abstracts Service, Columbus, Ohio Establish and operate an automated NCI registry system

Contr. CA-65-1023 — Health Res., Buffalo, N.Y. Compare long and short term survivors of acute leukemia

Contr. CA-65-1024 — Medical Lit., Philadelphia, Pa. Process 2,840 journal articles

Contr. CA-65-1028 — Wistar Institute, Philadelphia, Pa. Problem survey on a human leukemia-virus test system

Contr. CA-65-1029 — Temple Univ., Philadelphia, Pa. The carcinogenic activity of metabolites produced by fungi

Contr. CA-65-1032 — Mason Research Inst., Worcester, Mass. Production of Rauscher murine leukemia virus

Contr. CA-65-1033 — Meipar, Inc., Falls Church, Va. Production of moloney murine leukemia virus

Contr. CA-65-1034 — Massachusetts General Hosp., Boston, Mass. Preservation of platelets and leukocytes by freezing

Contr. CA-65-1035 — Univ. Connecticut, Storrs, Conn. Synthesis and biological activity of di- or tri-nucleoside phosphates

Contr. CA-65-1036 — City of Hope, Duarte, Cal. Study toxicity of metabolites from fungi of certain foodstuffs

Contr. CA-65-1039 — Rutgers Univ., New Brunswick, N.J. Study of known and candidate leukemia viruses

Contr. CA-65-1041 — Univ. Utah, Salt Lake City, Utah Synthesis of potential antiviral-anticancer purine nucleosides

Contr. CA-65-1042 — Simonsen Labs., White Bear Lake, Minn. Breed produce and deliver 3,000 randombred hamsters

Contr. CA-65-1044 — Monsanto Res. Corp., Dayton, Ohio Preparation of radioactive drugs and chemicals

Contr. CA-65-1045 — Dow Chemical Co., Midland, Mich. Research and development on biohazards control and containment facilities

Contr. CA-65-1050 — E.R. Squibb and Sons, New York, N.Y. Performance and research on evaluation of implant tumors

Contr. CA-65-1054 — Hoffman-Laroche, Nutley, N.J. Production and delivery of 5 KG of 5-FUDR

Contr. CA-65-1056 — E.R. Squibb and Sons, New York, N.Y. Lab. for preparing commercially unobtainable steroids

Contr. CA-65-1065 — Health Res., Buffalo, N.Y. Study of cancer treatment and leukemia chemotherapy in axenic man

Contr. CA-65-1070 — Upjohn Co., Kalamazoo, Mich. To provide 16 kilograms of a compound

Contr. CA-65-1071 — E.R. Squibb and Sons, New York, N.Y. To produce and deliver 50 kilograms of delta-1-testololactone

Contr. CA-65-1072 — Smithsonian Inst., Washington, D.C. Establishment of a register of tumors in lower animals

COMMUNICABLE DISEASE CENTER

CC-00002-8 BM — SLACK, JOHN M., West Virginia Univ. Med. Cr., Morgantown, West Va. Immunological studies with Nocardia asteroides

CC-00003-8 BM — VAN ESELTINE, WILLIAM P., Sch. Vet. Med., Univ. Georgia, Athens, Ga. Nutritional studies of the Leptospirae

CC-00004-6 TMP — IRONS, JESSE V., Texas State Dept. Hlth., Austin, Texas Studies on arthropod-borne encephalitides
Texas J Med 60:868, 64. Encephalitis reports from over the state.

CC-00005-7 BM — EGEBERG, ROGER O., Sch. Med., Univ. So. California, Los Angeles, Cal. Ecology of C. immitis in the soil
J Bact 87:500, Apr 64. Significance of soil salinity in the ecology of Coccidiosides immitis.
J Bact 88, (No 2):473, Aug 64. Effect of salinity and temperature on Coccidioides immitis and three antagonistic soil saprophytes.

CC-00006-6 HUE — CHAPMAN, JOHN S., Southwestern Med. Sch., Univ. Texas, Dallas, Tex. Environmental factors in mycobacterial disease

CC-00008-6 TMP — ROTH, EARL E., Agr., Mechanical Col., Louisiana State Univ., Baton Rouge, La. Leptospirosis--incidence, significance and epizootiology
Am J Vet Res 25:259, 64. Isolation of Leptospria pomona from white-tailed deer in Louisiana.
Cornell Vet 54:354, 64. Comparative cultural results of renal tissue and urine of striped skunks for leptospires.
J Wildlife Management 28:368, 64. Nighttime capture of striped skunks in Louisiana.
Pub Health Rep 78:727, 63. New leptospiral serotype in the pyrogenes seroqroup.
Pub Health Rep 78:994, 63. Leptospiruria in striped skunks.
Zoonos Res 2:91, 63. Identification of hyos leptospiral strains isolated in Louisiana with report of a new serotype.

CC-00017-5 TMP — SASA, MANABU, Univ. Tokyo, Tokyo, Japan Experimental studies on filariasis control
Jap J Exp Med 33:213, 63. Studies on epidemiology and control of filariasis: Observations on the carriers of Wuchereria bancrofti in the Amami Islands with special reference to the effects and side-reactions of diethylcarbamazine.
Jap J Exp Med 34:17, 64. Frequency distribution of the microfilarial densities of people in endemic areas of bancroftian filariasis in the Amami Island, south Japan.
Jap J Exp Med 34:89, 64. Observations on the bionomics of mosquitoes in Amami and Tokyo areas by indoor human bait collections with special reference to their nocturnal biting rhythm.
Jap J Parasit 13:448, 64. Microfilarial surveys of immigrants from the Amami and the Ryukyu Islands and the possibility of filarial transmission in urban areas.
Jap J Sanit Zool 14:152, 63. On attractiveness of some amino-acids and their decomposed products for the mosquitoes, Culex pipiens pallens.
Jap J Sanit Zool 14:191, 63. Comparative studies on the pleural structure of the Japnese mosquitoes.
Jap J Sanit Zool 14:231, 63. Effect of residual spray of dieldrin and baytex, with special reference to the developed resistance in mosquitoes and flies by the treatment.
Jap J Sanit Zool 14:237, 63. Selection of adults and larvae of Culex pipiens by the treatments of dieldrin and baytex.
Jap J Sanit Zool 15:36, 64. Effect of density of larval population to the mortality in a laboratory testing technique of mosquito larvicides.

CC-00019-6 ESE — SHAFFER, JAMES G., Lutheran Gen. Hosp., Park Ridge, Illinois Microbiological profile of a new hospital
Am J Pub Health 54:1674, 64. The microbiological profile of a new hospital. III. Airborne infection in hospitals.
J Am Hosp Assn 38:40, 64. The microbiological profile of a new hospital. I. Hospitals.
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CC-00021-5 VR MacCREADY, ROBERT A., Mass. Hlth. Res. Inst., Boston, Mass. Study of arbovirus encephalitis in Massachusetts

CC-00023-5 VR PAUL, JOHN R., Sch. Med., Yale Univ., New Haven, Conn. Studies in serological epidemiology

Am J Hyg 80, (No 3):286, Nov 64. A nationwide serum survey of United States military recruits, 1962. I. General considerations.

Am J Hyg 80, (No 3):293, Nov 64. A nationwide serum survey of United States military recruits, 1962. II. Poliovirus antibody levels.

Am J Hyg 80, (No 3):304, Nov 64. A nationwide serum survey of United States military recruits, 1962. III. Measles and mumps antibodies.

Am J Hyg 80, (No 3):308, 64. A nationwide serum survey of United States military recruits, 1962. IV. Arbovirus antibodies.

Milit Med 130, (No 1):1, Jan 65. A nationwide serum survey of U. S. recruits in the three Armed Services.

CC-00027-3 VR HOFFERT, WARREN R., Sch. Med., Univ. Miami, Coral Gables, Fla. Enterovirus in sewage after oral polio vaccine

CC-00028-3 HUE GOLDFIELD, MARTIN, N.J. State Dept. Hlth., Trenton, N.J. A study of illness and its relation to sewage viruses

CC-00030-4 VR NELSON, DONALD B., Univ. Wisconsin, Madison, Wis. Enterovirus infections in a student population

CC-00032-4 BM LEPPER, MARK H., Col. Med., Univ. Illinois, Chicago, Ill. Epidemiology of gram negative rods in hospitals

Antimicrobial Agents and Chemotherapy, Am Soc Microbiol, Pub, p. 714, 63. Emergence of antibiotic-resistant Escherichia coli in a closed-population when chloramphenicol was used extensively.

CC-00033-4 BM LEPPER, MARK H., Col. Med., Univ. Illinois, Chicago, Ill. Epidemiology of enteropathogenic E. coli

CC-00034-4 TMP UECKERT, VERDES H., Maricopa Co. Hlth. Dept., Phoenix, Ariz. The ecology of viral encephalitis in a Sonoran ecotype

CC-00035-3 DC BODILY, HOWARD L., California State Dept. Pub. Health, Berkeley, Calif. Fluorescent antibody in syphilis serology

CC-00037-3 VR BRANDLY, CARL A., Col. Vet. Med., Univ. Illinois, Urbana, Ill. Emergence and recession of the zoonoses

Am J Vet Res 25, (No 106):704, 64. Vaccination of beef calves before weaning with bovine parainfluenza-3 (SF-4) vaccine in an adjuvant.

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J Parasit 50 (Suppl):35, 64. Overwinter survival on pasture of trichostrongylid nematodes of sheep.

J Parasit 50(Suppl):50, 64. Vector efficiency of Triatoma protracta for Trypanosoma cruzi.

Science 143:1464, 64. Zoonoses.

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Keys to the Trematodes of Animals and Man, Univ Ill Press, Urbana, 64.

CC-00038-9 TOX FUKUTO, T. ROY, Col. Agr., Univ. California, Riverside, Cal. Chemistry and mode of action of insecticides

Ann Rev Entom 6:313, 61. The chemistry of organic insecticides.

Bull WHO 24:670, 61. Toxicity of diisopropyl 1, 2,2,2-tetrachloroethyl phosphate and its vinyl analoque to resistant houseflies.

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J Agr Food Chem 12:228, 64. Insecticidal properties of some diethyl nitronaphthyl phosphates.

J Agr Food Chem 12:231, 64. Para-substituted meta-xylenyl diethyl phosphates and N-methylcarbamates as anticholinesterases and insecticides.

J Econ Entom 54:955, 61. The insecticidal properties of esters of phosphonic and phosphinic acids.

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J Org Chem 26:4620, 61. Configuration of the α- and β-isomers and of methyl 3-(dimethoxyphosphinyloxy)-crotonate (Phosdrin).

CC-00039-6 TOX STERNBURG, JAMES G., Grad. Sch., Univ. Illinois, Urbana, Ill. Neurophysiology of insects and action of insecticides

CC-00040-5 TOX CASIDA, JOHN E., Sch. Agr., Univ. California, Berkeley, Cal. Resistance and the composition of insect populations

CC-00042-8 TOX COON, JULIUS M., Jefferson Med. Col., Philadelphia, Pa. Toxicologic interactions of organophosphates

Toxic Appl Pharmacol 6:354, 64. Protection of rats from octamethyl pyrophosphoramide poisoning by chlorcyclizine.

CC-00046-2 BM DENTON, J. FRED, Med. Col. Georgia, Augusta, Ga. Ecology of human pathogenic fungi

Am J Trop Med 13:716, 64. Isolation of Blastomyces dermatitidis from natural sites at Augusta, Georgia.

CC-00047-9 TMP SANDERSON, GLEN C., Univ. Illinois, Urbana, Ill. Disease control through vertebrate population control

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J Wildlife Management 27, (No 3):325, 63. Equipment and techniques for radio-tracking striped skunks.

J Wildlife Management 29, (No 1):1, Jan 65. Movements and activities of foxes as determined by radio-tracking.

PhD Thesis, Southern Illinois Univ, 65. The biology of the striped skunk, Mephitis mephitis (Schreber), and its role in the epizootiology of rabies in northwestern Illinois.

CC-00049-2 BM SMITH, RUSSELL E., Col. Agr., Univ. Massachusetts, Amherst, Mass. Uterine pathology studies using FA technique

CC-00052-2 TMP SANDERSON, GLEN C., Ill. Natural History Survey., Urbana, Illinois Studies of white-tailed deer in spread of zoonoses

CC-00060-2 BM WHITE, ARTHUR C., Med. Col. Georgia, Augusta, Ga. The quantitative staphylococcal carrier state

CC-00061-3 TOX RIDER, J. ALFRED, Franklin Hosp. Fdn., San Francisco, Cal. Tolerance of organic phosphates in man

Fed Proc 23, (No 2), Mar-Apr 64. Studies on the anticholinesterase effects of systox and methyl parathion in humans.

CC-00062-7 BM PRATHER, E. CHARLTON, Fla. State Bd. Hlth., Jacksonville, Fla. Epidemiology of unclassified mycobacterial infections

CC-00064-5 BM LIVE, ISRAEL, Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa. Studies on staphylococcal infection

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CC-00065-5 BM HOLLISTER, CHARLES J., Sch. Vet. Med., Univ. Pennsylvania, Kennett Sq., Pa. An epizootiological study of leptospirosis

CC-00066-6 BM BLENDEN, DONALD C., Sch. Vet. Med., Univ. Missouri, Columbia, Missouri Epidemiologic studies on leptospirosis

CC-00068-6 BM COLES, EMBERT H., Sch. Vet. Med., Kansas State Univ., Manhattan, Kans. Animal staphylococci as related to human infection

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CC-00070-6 BM HANSON, LYLE E., Col. Vet. Med., Univ. Illinois, Urbana, Ill. Nidality and pathogenicity of Leptospira
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Zoonos Res 3, (No 1):39, 64. Further observations on the epidemiology of leptospirosis in Iowa. I. Cases occurring among abattoir employees.

CC-00073-6 TMP DEWHIRST, LEONARD W., Col. Agr., Univ. Arizona, Tucson, Ariz. Cysticercosis in cattle

CC-00074-6 BM SIMON, HAROLD J., Sch. Med., Stanford Univ., Stanford, Cal. Epidemiology and pathogenesis of staphylococcal infections
Calif Med 99:369, Dec 63. Institutionally acquired infections. A resume.
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CC-00075-5 BM JENKINS, DANIEL E., Col. Med., Baylor Univ., Houston, Texas Atypical acid-fast organisms

CC-00078-4 BM TUCKER, CECIL B., Tenn. Dept. Hlth., Nashville, Tenn. Epidemiologic studies of atypical acid-fast bacilli

CC-00079-3 TMP STEVENSON, HENRY M., Fla. State Univ., Tallahassee, Fla. Migration and abundance of neotropical birds in Florida

CC-00080-4 TMP MOYA, VICTOR, Pan Am. Sanitary Bureau, Washington, D.C. Studies on methods of treating canine echinococcosis

CC-00081-4 DC FELTON, FRANCES G., Sch. Med., Univ. Oklahoma, Okla. City, Okla. Epidemiology and skin testing in cryptococcosis

CC-00082-4 TMP OLIVER-GONZALEZ, JOSE, Sch. Med., Univ. Puerto Rico, San Juan, P.R. Biological control of trematodes

CC-00083-4 BM COOPER, MERLIN L., Children's Hosp. Res. Fdn., Cincinnati, Ohio Antibody responses in children to Staphylococcus aureus

CC-00091-5 HUE KUNIN, CALVIN M., Sch. Med., Univ. Virginia, Charlottesville, Va. The epidemiology and natural history of urinary tract infections
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CC-00092-4 BM HURST, VALERIE, Sch. Dent., Univ. California, San Francisco, Cal. Studies on bacterial infections acquired in hospitals

CC-00094-1 DC NEWELL, KENNETH W., Sch. Med., Tulane Univ., New Orleans, La. The definition of Salmonella cycles in Louisiana

CC-00100-5 TMP RATHBURN, CARLISLE B., Jr., Fla. State Bd. Hlth., Panama City, Fla. Outdoor study of mosquito insecticidal aerosols

CC-00101-8 TMP HARRINGTON, ROBERT W., Jr., Florida State Bd. Hlth., Vero Beach, Fla. Biology of brackish-water larvivorous fishes
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PhD Thesis, Rutgers Univ, 64. Cuticular penetration and insecticide resistance.
PhD Thesis, Rutgers Univ, 64. Studies of dispersion of insecticide resistant populations of the house fly, Musca domestica L.

CC-00103-3 TMP CHEW, ROBERT M., Sch. Lib. Arts, Sci., Univ. So. California, Los Angeles, Cal. Ecology and control of Psorophora confinnis
Ann Entom Soc Am 57:383, 64. Contribution to the ecology of Aedes vexans (Diptera: Culicidae) in the Coachella Valley, California.
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CC-00106-1 BM SELL, SARAH H., Sch. Med., Vanderbilt Univ., Nashville, Tenn. A diagnostic test for histoplasmosis

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CC-00115-2 AI MILLER, JAMES N., Sch. Med., Univ. California, Los Angeles, Cal. Studies on immunity in experimental syphilis

CC-00118-1 DC FELDMAN, HARRY A., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y. Normal family respiratory disease epidemiology

CC-00119-1 BM MUCHMORE, HAROLD G., Sch. Med., Univ. Minnesota, Minneapolis, Minn. Serologic evaluation of immunity in cryptococcosis

CC-00126-1 TMP HARRY, HAROLD W., A and M Marine Lab., Galveston, Tex. Water quality related to Taphius activity and growth

CC-00128-1 DC HIRSCHBERG, NELL, North Carolina Col., Durham, N.C. Fluorescent antibody studies in Leptospirosis

CC-00129-1 SSS WINKELSTEIN, WARREN, Sch. Med., State Univ. New York, Buffalo, N.Y. Ecological studies of vaccines

CC-00131-1 BM EICHENWALD, HEINZ F., Southwestern Med. Sch., Univ. Texas, Dallas, Texas Spread of infection among newborn infants
Am J Dis Child 108:252, 64. Bacterial interference: Protection of adults against nasal staphylococcus aureus infection.
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Publications received from terminated CC projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

CHRONIC DISEASES

CD-00001-7 HUE SIEGEL, MORRIS, Downstate Med., Cr., State Univ. N.Y., Brooklyn, N.Y. The epidemiology of systemic lupus erythematosus

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Am J Pub Health 51:829, Jun 61. Fluorescent antibody procedure for lupus erythematosus: Comparative use of nucleated erythrocytes and calf thymus cells.

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CD-00002-6 DC GELLIS, SYDNEY S., Boston City Hosp., Boston, Mass. Abnormal carbohydrate metabolism control in pregnancy

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CD-00003-4 GM MENDEZ-BRYAN, RICARDO, Sch. Med., Univ. Puerto Rico, San Juan, Puerto Rico Rheumatoid arthritis--Prevalence in a tropical area

CD-00004-6 HUE LILIENFELD, ABRAHAM M., Sch. Hyg., Johns Hopkins Univ., Baltimore, Md. Epidemiological study of ulcerative colitis

CD-00005-5 GM MIKKELSEN, WILLIAM M., Sch. Med., Univ. Michigan, Ann Arbor, Mich. Serum urate levels in a normal population

CD-00006-3 GEN McNUTT, C. WALLACE, Univ. Texas Med. Br., Galveston, Tex. Diabetes--Clinico-genetic study of an Indian group

CD-00008-4 GM KAPLAN, STANLEY B., Univ. Tennessee, Memphis, Tenn. Studies of chronic disease developing in BFP cases

CD-00012-9 CMS JORDAN, RAYMOND E., Grad. Sch., Univ. Pittsburgh, Pittsburgh, Pa. Conservation of hearing in children

CD-00013-7 VIS BECKER, BERNARD, Sch. Med., Washington Univ., St. Louis, Mo. Collaborative glaucoma study

CD-00014-7 VIS SHAFFER, ROBERT N., Univ. California Med. Cr., San Francisco, Cal. Collaborative glaucoma detection study

CD-00015-6 MH REITAN, RALPH M., Indiana Univ. Med. Cr., Indianapolis, Ind. Psychological effects of cerebral lesions in children

CD-00016-7 VIS POLLACK, IRVIN, Johns Hopkins Univ., Baltimore, Md. Collaborative glaucoma study

CD-00017-7 VIS ARMALY, MANSOUR F., Sch. Med., Univ. Iowa, Iowa City, Iowa Collaborative glaucoma study

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Invest Ophthal 2:591, 63. The effect of external compression of the eye on intraocular pressure. I. Its variations with magnitude of compression and with age.

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CD-00022-8 PATH FERGUSON, JAMES H., Jackson Memorial Hospital, Miami, Fla. Establishment of a positive cytology registry

CD-00029-6 MH BENNETT, RUTH, Res. Fdn. Mental Hygiene, Middletown, N.Y. Effect of residences for the aged on social adjustment

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CD-00042-2 SURG VAN BERGEN, F. H., Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn. A functional assessment of mechanical respirators

CD-00043-2 HUE COHEN, BERNICE H., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md. Test responses in living subjects and family mortality

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CD-00064-6 COM PIPBERGER, HUBERT V., Sch. Med., Georgetown Univ., Washington, D.C. Digital coding of clinical cardiovascular information
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CD-00082-1 AFY SELTZER, CARL C., Sch. Public Hlth., Harvard Univ., Boston, Mass. Community action program for adolescent weight control

CD-00086-1 HSR LEVINE, SOL, Sch. Public Hlth., Harvard Univ., Boston, Mass. Social factors in the recovery of heart patients

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CD-00095-1 GM MIKKELSEN, WILLIAM M., Univ. Michigan Med. Cr., Ann Arbor, Mich. Rheumatoid and osteoarthritis--Tecumseh, Michigan

CD-00102-1 HSR COBB, SIDNEY, Univ. Michigan, Survey Res. Cr., Ann Arbor, Mich. Ecology of employment termination--I Health effects

CD-00104-1 MH ROSENBLATT, DANIEL, Medical and Hlth. Res. Assn. of New York, New York, N.Y. Group technique for reducing smoking in college

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CD-00110-1 CV WARREN, JAMES V., Ohio State Univ. Hosp., Columbus, Ohio Mechanism of death in acute myocardial infarction

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CD-00122-1 AI HARVEY, HENRY S., Acton Med. Assoc., Acton, Mass. The carrier state and streptococcal disease

CD-00123-1 DC BERRY, HELEN K., Children's Hosp. Res. Fdn., Cincinnati, Ohio Procedures for detection of metabolic disorders

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CD-00127-1 BS STEUART, GUY W., Sch. Pub. Hlth., Univ. California, Los Angeles, Cal. Natural history of heart disease-related habits

CD-00135-1 HUE WINKELSTEIN, WARREN, Jr., Sch. Med., State Univ. New York, Buffalo, N.Y. Urban chronic disease epidemiological study program

CD-00137-1 HSR LAWTON, M. POWELL, Home for Jewish Aged, Philadelphia, Pa. The social cost of care for the elderly

CD-00148-1 HSR PARKER, ADAH D., Col. Physical Educ., Univ. Illinois, Champaign, Ill. Study of recreation on institutionalized aged

CD-00149-2 MH GUILFORD, JOAN S., American Inst. Research, Los Angeles, Cal. Factors related to successful abstinence from smoking

CD-00150-1 AFY MAZZARELLA, JOHN A., Sch. Med., Univ. Washington, Seattle, Wash. Physical training and the abnormal exercise ECG

CD-00151-1 DC WANNAMAKER, LEWIS W., Sch. Med., Univ. Minnesota, Minneapolis, Minn. Prospective study of skin infections and nephritis

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CH-00002-3 BS FIELD, MARK G., Univ. Illinois, Urbana, Ill. Medicine and medical organization in Soviet Russia

CH-00004-3 HSR AXELROD, S.J., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich. Economic evaluation of malaria eradication

CH-00022-5 HSR SPENCER, ESTHER C., California State Dept. Pub. Hlth., Berkeley, Cal. Study and evaluation of consultation in public health

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CH-00040-2 HSR METZNER, CHARLES A., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich. Choice or rejection of group practice prepayment plan

CH-00042-2 HSR SHANNON, LYLE W., Col. Liberal Arts, State Univ. Iowa, Iowa City, Iowa Value assimilation among immigrant laborers

CH-00043-3 HSR DENSEN, PAUL M., New York City Hlth. Dept., New York, N.Y. Proposal for a public health practice research center

CH-00044-3 SPP GETTING, VLADO A., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich. Evaluation of public health practices

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CH-00065-2 HSR CARTWRIGHT, ANN, Inst. Community Studies, London, England The role of the family physician in the community

CH-00066-2 HSR SCITOVSKY, ANNE A., Palo Alto Med. Res. Fdn., Palo Alto, Cal. Study of a new approach to a medical care cost index

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CH-00091-1 NR DODGE, JOAN S., Grad. Sch. Business, Pub. Admin., Cornell Univ., Ithaca, N.Y. Perceptions of patients' cognitive needs

CH-00093-1 HSR CUMMINS, JAMES F., Florence Heller Grad. Sch. Advanced Studies Soc. Welfare, Brandeis Univ., Waltham, Mass. Task allocation and structure of health resources

CH-00097-1 HSR MADISON, BERNICE, 45 Cleary Court, San Francisco, Cal. Social welfare in the Soviet Union

CH-00102-1 HSR ROEMER, MILTON I., Sch. Pub. Hlth., Univ. California, Los Angeles, Cal. Medical care organization--Comparative studies

CH-00103-1 HSR READER, GEORGE G., Cornell Univ. Med. Col., N.Y.C. Program of research in patient care
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CH-00109-2 HUE ZIMMER, BASIL G., Brown Univ., Providence, R.I. The ecology of American social structure

CH-00110-1 HSR SACKS, SEYMOUR, Syracuse Univ., Syracuse, N.Y. Socio-economic determinants of public health costs

CH-00115-1 HSR ANDERSON, ODIN W., Grad. Sch., Univ. Chicago, Chicago, Ill. Economic dependency, medical care and the means test

CH-00116-1 HSR CHAPIN, F. STUART, Jr., Univ. North Carolina, Chapel Hill, N.C. Household activity patterns and community health

CH-00120-1 HSR SEIPP, CONRAD, Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa. Determinants of coordination for planning

CH-00121-1 HSR HOLDER, LEE, Natl. Comm. on Community Hlth. Services, Bethesda, Md. Community readiness study

CH-00122-1 HSR PODELL, LAWRENCE, Dept. Welfare, New York, N.Y. Utilization of health resources by welfare recipients

CH-00128-1 HSR LOEWENSTEIN, REGINA, Sch. Pub. Hlth., Admin. Med., Columbia Univ., New York, N.Y. Personal health services--Utilization and charges

CH-00129-1 HUE TOWNSEND, PETER B., Sch. Ec., Univ. Essex, Essex, England Social functioning of the aged

CH-00132-1 MH KAY, MARGARITA, St. Mary's Hosp., Tucson, Ariz. Mothers in Mexican and Mexican-American cultures

CH-00144-1 HUE WESTOFF, CHARLES F., Princeton Univ., Princeton, N.J. Travel support--World Population Conference-Belgrade

CH-00148-1 HSR SANAZARO, PAUL J., Assn. American Med. Colleges, Evanston, Ill. Criteria for professional performance of physicians

CH-00154-1 HUE GITTELSOHN, ALAN, Sch. Hygiene, Johns Hopkins Univ., Baltimore, Md. An information system for vital statistics
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CH-00155-1 HSR FUCHS, VICTOR R., 9 Talley Road, Roslyn, N.Y. Comparative analysis of health levels and services

CH-00158-1 HSR WHITE, KERR L., Sch. Hyg., Pub. Hlth., Johns Hopkins Univ., Baltimore, Md. Medical care and patient care program

CH-00159-1 NSS WHITE, KERR L., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md. Health Services Research Papers

CH-00177-1 BS KNAPP, DAVID A., Col. Pharm., Ohio State Univ., Columbus, Ohio Role conceptions of pharmacists and community health

CH-00187-1 HSR MARTIN, LEONARD W., Col. Business Admin., Loyola Univ., Chicago, Ill. Evaluation of CPI--Index of hospital room rates

CH-00198-1 NSS WILLIAMSON, HAROLD F., Northwestern Univ., Evanston, Ill. Travel grant-Congress of Economic Historians-Munich

CH-00201-1 HSR DAVIS, MORRIS, Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill. Public health issues as urban political decisions

Publications received from terminated CH projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

DIVISION OF BIOLOGICS STANDARDS

Contr. DBS-63-548 Southwest Blood Bank, Scottsdale, Ariz. Hemagglutinin levels of pooled human plasma

Contr. DBS-64-557 Univ. Texas, Austin, Texas Effects of plastic devices on biological products

Contr. DBS-65-81 Booz-Allen Applied, Bethesda, Md. Methodological statistics, experimental design and analysis

Contr. DBS-65-87 Miami Serpentarium, Miami, Fla. Acquire and maintain coral snakes for extraction of venom

Contr. DBS-65-98 — Cordis Corp., Miami, Fla. Test antihuman horse serum by immuno-electrophoresis

Contr. DBS-65-1046 — Baylor Univ., Dallas, Texas. Influence of various materials on human hemo-antibodies

Contr. DBS-65-1052 — Electronic Assoc., Rockville, Md. Provide analog computer time and engineering services

Contr. DBS-65-1053 — Sharpe Research Fdn., Bryn Mawr, Pa. Research leading to standardization of blood collection techniques

DENTAL

DE-00004-16 DEN — BLAYNEY, J. ROY, Univ. Chicago, Chicago, Ill. Fluorine and dental caries
- J Am Dent Assn 69:291, Sep 64. Evanston Dental Caries Study. XXIV. Prenatal fluorides--Value of waterborne fluorides during pregnancy.
- J Dent Res 41:1037, Oct 62. Evanston dental caries study. XXII. A study of fluoride deposition in bone.

DE-00159-12 DEN — TRAUTZ, OTTO R., Col. Dent., New York Univ., New York, N.Y. Crystallographic studies of developing caries
- Advances Fluorine Res 3:101, 65. Precipitation of calcium carbonates and phosphates. II. A precipitation diagram for the system calcium-carbonate-phosphate and the heterogeneous nucleation of solids in the metastability region.
- Arch Oral Biol 10:731, 65. Effect of magnesium on various calcium phosphates. III. The effect of magnestium and fluoride ions on the spontaneous precipitation of calcium carbonates and phosphates.
- J Dent Res 43:750, 64. Infrared investigation of carbonate substitution in apatite.
- J Dent Res 43:757, 64. Effect of magnesium on calcium phosphates.
- J Dent Res 43:775, 64. The effect of various ions on the crystallinity of apatite precipitates.
- Nature 206:403, 65. Effect of carbonate on the lattice parameters of apatite.
- Proc Am Assn Advance Sci 131st Ann Congr, Dec 64. Factors influencing the crystallinity of apatites.
- Proc Am Cryst Assn Winter Mtg, p. 40, Feb 65. A computer diffractometer method for assessing crystallinity.
- Proc Int Assn Dent Res 43rd Ann Mtg, Jul 65. Comparisons of the crystallinities of "impurity"-containing apatites.
- Proc Int Assn Dent Res 43rd Ann Mtg, Jul 65. Carbonate substitution in the apatite structure.

DE-00197-10 DEN — HAGERTY, ROBERT F., Med. Col. South Carolina, Charleston, S.C. Facial growth and dentition in cleft palate subjects

DE-00204-11 NTN — SHAW, JAMES H., Sch. Dent., Harvard Univ., Boston, Mass. Role of nutrition in the development of bone and teeth
- Arch Oral Biol 9:491, 64. Major reductions in experimental caries with low penicillin concentrations.
- Arch Oral Biol 10:261, 65. The effects of changes in the proportion and type of dietary carbohydrate on the amylase and protein concentrations in rat saliva.
- Arch Oral Biol 10:269, 65. Some characteristics of parotid and submandibular salivary proteins.
- J Dent Res 43:1259, 64. Separation of uric acid from proteins in human saliva by gel filtration.
- J Nutr 85, (No 4):338, Apr 65. Influence of caloric restriction and of reduced feeding time on experimental dental caries in the rat.

DE-00221-3 DEN — BAER, MELVYN J., Sch. Med., Univ. Detroit, Detroit, Mich. Growth of face in human male during early adult period

DE-00224-9 DEN — MOYERS, ROBERT E., Sch. Dent., Univ. Michigan, Ann Arbor, Mich. Serial analysis of dental and occlusal development
- Proc Int Assn Dent Res Ann Mtg, Jul 65. Lateral cephalometric study of the normal line of occlusal contact.

DE-00238-9 CB — GERSTNER, ROBERT, New York Univ., New York, N.Y. Growth, preservation and storage of oral tissues in vitro

DE-00240-10 DEN — BERRY, HARRISON M., Jr., Sch. Dent., Univ. Pennsylvania, Philadelphia, Pa. Cinefluorography of temporomandibular articulation
- Cleft Palate J 1:382, Oct 64. Cineradiographic system design.
- Proc Pennsylvania Acad Sci 35:110, 61. Cholesterolgenesis and lipogenesis in gingiva.
- Radiation Res 22, (No 3):543, Jul 64. Lipogenesis and cholesterogenesis in the Wistar rat parotoid gland after uptake of calcium-45.

DE-00249-10 DEN — LEICESTER, HENRY M., Col. Phys., Surg., Univ. of Pacific, San Francisco, Cal. Tracer studies on uptake radioberyllium in rat molars
- J Dent Res 43:346, 64. Uptake and radioactive beryllium, vanadium, selenium, cerium, and yttrium in the teeth and tissues of rats.

DE-00273-10 DEN — RING, JOHN R., Sch. Dent., Washington Univ., St. Louis, Mo. Histochemistry of oral inflammation in aging rats

DE-00322-9 DEN — SHAW, JAMES H., Sch. Dent. Med., Harvard Univ. Boston, Mass. Biochemical studies in periodontal disease
- J Dent Res 44, (No 2):431, Mar-Apr 65. Further studies on the sensitivity of the periodontal syndrome in the rice rat to dietarty antibiotics.
- Proc Int Assn Dent Res 43rd Ann Mtg, (No 72), p. 54, 65. Preliminary observations on the enhancing effect of cortisone upon the periodontal syndrome of the rice rat.

DE-00326-9 DEN — WEISBERGER, DAVID, Sch. Dent. Med., Harvard Univ., Boston, Mass. Diseases of the salivary glands and their secretions

DE-00331-9 DEN — ALTEMUS, LEONARD A., Sch. Dent., Howard U., Washington, D.C. A study of the head and face of the American Negro child
- Angle Orthodont 35, (No 2), Apr 65. The incidence of cephalofacial birth defects.
- Pediatrics 36, (No 1), Jul 65. Comparative incidence of birth defects in Negro and white children.

DE-00370-9 DEN — GILMOUR, MARION N., Eastman Dent. Disp., Rochester, N.Y. Growth conditions and metabolism of an oral Leptotrichia
- Anal Biochem, Nov 65. Gas chromatography as an aid in fermentation studies.

DE-00373-12 DEN — SHAW, JAMES H., Sch. Dent., Med., Harvard Univ., Boston, Mass. Biochemical studies in the calcified tissues
- Arch Oral Biol 10:45, 65. Reproductive ability among sialoadenectomized rats of the Harvard caries-resistant strain.
- J Dent Res 44, (no 1):96, Jan-Feb 65. The effect of adrenalectomy and cortisone supplementation on caries incidence in caries-susceptible rats.

DE-00402-9 DEN — CHAUNCEY, HOWARD H., Sch. Dent., Tufts Univ., Boston, Mass. Comparative histochemistry of human salivary glands
- Arch Oral Biol 8:615, 63. Comparative enzyme activity of saliva from the sheep, hog, dog, rabbit, rat, and human.
- Arch Path 77:305, 64. Experimental submaxillary gland tumors in rats.
- J Dent Res 42:1529, 63. Effect of human saliva on the growth of the golden hamster.
- J Dent Res 43:520, 64. Hormonal influence on rat submandibular gland histochemistry.
- J Histochem Cytochem 12:647, 64. Preservation of total, lyo, and desmoenzyme activity in mamalian salivary glands following chloral hydrate formalin fixation.
- Oral Surg 17:207, 64. Histochemistry of experimentally leukoplakia and carcinoma of the hamster buccal pouch.
- Oral Surg 18:389, 64. Histochemistry of experimentally induced fibrosarcoma in rat submaxillary gland.
- Stain Tech 39:131, 64. False cellular localization of aminopeptidase caused by resinous mounting media.

DE-00433-9 DEN — PHILLIPS, RALPH W., Sch. Dent., Indiana Univ., Indianapolis, Ind. Dimensional change and stability of certain dental materials

DE-00459-9 DEN — KASAI, GEORGE J., Grad. Sch., Univ. Chicago, Chicago, Ill. Study of oral filamentous microorganisms

DE-00473-9 DEN — ROLLE, GLORIA K., Col. Dent., New York Univ., New York, N.Y. A study of calcification of teeth and bones

DE-00530-8 DEN — ZACH, LEO, Col. Dent., New York Univ., N.Y.C. Histochemistry of pulpal response to operative stress

DE-00537-9 DEN — STAHL, S. SIGMUND, Col. Dent., New York Univ., New York, N.Y. Effects of local and systemic factors on gingival healing
- J Dent Res 44, (No 2):392, Mar-Apr 65. Biochemical and histochemical studies of aerobic oxidative metabolism of oral tissues. II. Enzymatic dissection of gingival and tongue epithelia from connective tissues.
- Oral Surg 17:443, 64. The healing of a gingival wound in protein deprived, antibiotic supplemented adult rats.
- Oral Surg 19, (No 2):188, Feb 65. The effect of hepatic injury on gingival healing in rats.

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Periodontics 2:97, 64. Prolonged healing sequences following gingival injuries in adult rats.

Periodontics 2, (No 4):157, Jul-Aug 64. The effect of major salivary glands extripation on periodontal tissues of young rats on various nutritional intakes.

Texas Dent J 82:4, 64. Speculations regarding gingival healing.

DE-00546-9 CV SAGE, HAROLD H., Col. Dent., New York Univ. Med. Cr., New York, N.Y. Studies of lymphatic flow and lymph node pickup function

J Nuclear Med 5:626, 64. Radioactive colloidal gold measurements of lymph flow and functional patterns of lymphatics and lymph nodes in the extremities.

DE-00548-8 DEN WOELFEL, JULIAN B., Col. Dent., Ohio State Univ., Columbus, Ohio Effect of occlusal patterns on edentulous individuals

DE-00559-8 DEN WILLIAMS, NED B., Sch. Dent., Univ. Pennsylvania, Philadelphia, Pa. Detection of microbial products in gingival tissues

DE-00572-6 DEN BROWN, WALTER E., American Dental Assn., Washington, D.C. Crystal chemistry of mineralized tissue

DE-00586-9 NEU HARMAN, PINCKNEY J., Seton Hall Col. of Med. and Dent., Jersey City, N.J. Sensory pathways from dental structures

J Comp Neurol 123:97, 64. The nucleus marginalis of the mammalian spinal cord. Observations on the spinal cord of cat and man.

DE-00589-8 DEN BOWEN, R.L., American Dental Assn., Natl. Bur. Standards, Washington, D.C. Study of adhesion mechanisms in dental materials

J Am Dent Assn 69:481, Oct 64. Effect of particle shape and size distribution in a reinforced polymer.

J Dent Res 44, Jul-Aug 65. Adhesive bonding of various materials to hard tooth tissues. I. Method of determining bond strength.

J Dent Res 44, Sep-Oct 65. Adhesive bonding of various materials to hard tooth tissues. II. Bonding to dentin promoted by a surface-active comonomer.

J Dent Res 44, Sep-Oct 65. Adhesive bonding of various materials to hard tooth tissues. III. Bonding to dentin improved by pretreatment and the use of a surface-active comonomer.

J Dent Res 44, Sep-Oct 65. Adhesive bonding of various materials to hard tooth tissues. IV. Bonding to dentin, enamel and fluorapatite improved by the use of a surface-active comonomer.

Nat Bureau Standards Techn News Bull 49:62, Apr 65. Improved esthetic dental filling composite.

DE-00626-8 DEN BAVETTA, LUCIEN A., Univ. Southern California, Los Angeles, Cal. Studies on mechanisms of biosynthesis of collagen

DE-00642-8 DEN CALANDRA, JOSEPH C., Sch. Dent., Northwestern Univ., Chicago, Ill. Research program in oral pathology

Oral Surg 18, (No 2):227, Aug 64. The effect of root canal therapy on replanted teeth of dogs.

DE-00646-7 DEN GLICKMAN, IRVING, Sch. Dental Med., Tufts Univ., Boston, Mass. A research program in experimental oral pathology

J Periodont 35:397, Sep-Oct 64. Chronic desquamative gingivitis--Its nature and treatment.

J Periodont 36:141, 65. Effect of excessive occlusal forces upon the pathway of gingival inflammation in humans.

DE-00647-8 DEN SHAFER, WILLIAM G., Sch. Dent., Indiana Univ. Indianapolis, Ind. Histopathology of salivary glands

DE-00658-8 PATH MEYER, JULIA, Sch. Dent., Univ. Illinois, Chicago, Ill. Effects of keratinizing agents on oral mucosa and skin

J Dent Res 43, (No 4):536, Jul-Aug 64. Metaplastic keratinization in the human buccal mucosa.

J Invest Derm 42, (No 5):395, May 64. Cytology of the oral mucosa by a filter imprint technic.

Periodontics 2, (No 1):284, Jan-Feb 64. A comparison of human palatal and buccal mucosa.

DE-00663-7 DEN BRENMAN, HENRY S., Sch. Dent. Med., Univ. Pennsylvania, Philadelphia, Pa. Electronic muscle stimulation and jaw movement

DE-00689-8 DEN JOHANSEN, ERLING, Sch. Med., Dent., Univ. Rochester, Rochester, N.Y. Microscopic and chemical studies of carious lesions

Ann NY Acad Sci 131,(No 2):776, Sep 65. Electron microscopic and chemical studies of carious lesions with reference to the organic phase of affected tissues.

DE-00694-6 DEN DOMM, LINCOLN V., Stritch Sch. Med., Loyola Univ., Chicago, Ill. Endocrine effects on incisors and related structures

DE-00738-7 DEN COHN, SIDNEY A., Sch. Basic Med. Sci., Univ. Tennessee, Memphis, Tenn. Studies of tooth development

DE-00745-8 DEN VAN HUYSEN, GRANT, Sch. Dent., Indiana Univ., Indianapolis, Ind. X-ray micrographic studies of dentin calcification

DE-00765-8 DEN SHAY, DONALD E., Dent. Sch., Univ. Maryland, Baltimore, Md. Isolation and transfer of pathogenic micrococci

DE-00782-5 DEN SHEPPARD, IRVING M., Montefiore Hosp., N.Y.C. Motion radiography of mastication

DE-00793-7 SSS FERTIG, JOHN W., Sch. Pub. Hlth., Columbia Univ., New York, N.Y. Statistical methods in dental research

DE-00794-6 DEN DREISBACH, ROBERT H., Sch. Med., Stanford Univ., Palo Alto, Cal. Secretion of calcium by salivary glands

DE-00811-7 DEN RAPP, GUSTAV W., Sch. Dent., Loyola Univ., Chicago, Ill. Some effects of co-enzyme A inhibitors on rats

DE-00821-7 DEN GILMOUR, MARION N., Eastman Dental Dispensary, Rochester, N.Y. Growth of oral actinomyces-like organisms

DE-00829-6 SSS SONI, NARENDAR N., Col. Dent., Howard Univ., Washington, D.C. Growth and development of oral organ anlagen

DE-00853-8 DEP MORRIS, HUGHLETT L., Col. Med., State Univ. Iowa, Iowa City, Iowa Evaluation of diagnostic procedures in cleft palate

Angle Orthodont 34:119, 64. Dental anomalies in cleft lip and palate patients.

Cleft Palate J 1:371, 64. Objective measures in nasality.

Cleft Palate J 1:391, 64. Cineradiography in research and clinical studies of the velopharyngeal mechanism.

Cleft Palate J 2:32, 65. Cranial base angle and nasopharyngeal depth.

J Lancet 85, 65. Auditory reactions of the neonate.

Reconstructive Plastic Surgery, W B Saunders Co., Philadelphia, Pa., 64. Dental rehabilitation of the cleft lip and cleft palate patient.

Reconstructive Plastic Surgery, W B Saunders, Philadelphia, Pa., 64. Speech problems of patients with cleft lip and palate.

DE-00876-7 MET IRVING, JAMES T., Forsyth Dent. Infirmary, Boston, Mass. Calcification of teeth and bone

Am J Anat 117:151, 65. Connective tissues responses to altered collagen and bone implants

Arch Oral Biol 10:189, 65. Lipids and calciphylaxis.

Proc 2nd Europ Sympos Calcified Tissues, Univ Liege, p. 313, 65. Bone matrix lipids and calcification.

DE-00895-7 DEN HUELKE, DONALD F., Sch. Med., Univ. Michigan, Ann Arbor, Mich. Stresscoat deformation studies of the mandible

Am J Anat 116, (No 1):149, Jan 65. The arterial system of the head and neck of the rhesus monkey with emphasis on the external carotid system.

J Dent Res 43:437, 64. Mechanics in the production of mandibular fractures: Stain gauge measurements of impacts to the chin.

J Foren Sci 9, (No 4):461, 64. Bone fractures produced by bullets.

J Oral Surg 22:396, Sep 64. Location of mandibular fractures related to teeth and edentulous regions.

DE-00902-6 DEN STANFORD, JOHN W., Natl. Bureau of Standards, Washington, D.C. Chemical studies of dental calculus--Organic portion

DE-00903-6 DEN GOLDBERG, H.J.V., Eastman Dental Disp., Rochester, N.Y. Further studies of tooth mobility

DE-00914-6 DEN CANTWELL, KENNETH R., Sch. Dent., Univ. Oregon, Portland, Ore. Air as a coolant with high rotary speeds

DE-00928-6 DEN STEWART, JAMES M., Good Samaritan Hosp., West Palm Beach, Fla. Cytology of the adult odontoblasts

DE-00931-7 DEN SCHNEYER, LEON H., Univ. Alabama Med. Cr., Birmingham, Ala. Salivary gland proteins and electrolytes--Accumulation and secretion

Proc Soc Exp Biol Med 116:813, 64. Effects of pilocarpine on exchange of K^{42} in slices of submaxillary gland.

Salivary Glands and Their Secretions, Pergamon Press, New York, p. 217, 64. Electrolyte secretion by rat salivary glands in vivo and in vitro.

Salivary Glands and Their Secretions, Pergamon Press, New York, p. 309, 64. Methods for collection of rat saliva.

DE-00949-5 DEN **WATERSTRAT, RICHARD M., American Dental Assn., Washington, D.C. Alloys of gallium for use in dentistry**
Pub Health Rep 79:638, Jul 64. Gallium-palladium alloys as dental filling material.

DE-00983-5 DEN **HARRIS, STANLEY C., Sch. Dent., Northwestern Univ., Chicago, Ill. Causes and effects of changes in masticatory function**

DE-01019-6 DEN **LEVY, BARNET M., Sch. Dent., Univ. Texas, Houston, Texas Studies in experimental dental pathology**
J Bone Joint Surg 46A:789, Jun 64. A transplantable beryllium-induced chondrosarcoma of rabbits.

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The Temporomandibular Joint, C C Thomas, Springfield, Ill, 64. Chapter: Embryological development of the temporomandibular joint.

DE-01021-5 GM **BAVETTA, LUCIEN A., Sch. Dent., Univ. So. California, Los Angeles, Cal. Biosynthesis of collagen**

DE-01033-6 DEN **BERNICK, SOL, Sch. Med., Univ. Southern California, Los Angeles, Cal. Studies of changes of teeth periodontium and TM joint**
Anat Rec 143:121, 62. Age changes in the nerves of molar teeth of rats.

Anat Rec 144:265, 62. Age changes in the blood supply to molar teeth of rats.

Anat Rec 145:206, 63. Effects of various hormonal deficiencies upon the bones and teeth of rats.

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J Dent Res 42:981, 63. Histochemical study of bone in estrogen treated rats.

J Dent Res 43:406, 64. Differences in nerve distribution between erupted and nonerupted human teeth.

Oral Surg 15, (No 4):488, Apr 62. The vascular and nerve supply to the temporomandibular joint of the rat.

Oral Surg 18, (No 2):249, Aug 64. Histochemical study of dentin in estrogen-treated rats.

DE-01037-4 DEN **ANDERSON, DECLAN J., Guy's Hosp., Med. Sch., London, England Mechanism of sensation in human teeth**

DE-01038-6 DEN **BARBER, THOMAS K., Col. Dent., Univ. Illinois, Chicago, Ill. Application of cephalometric roentgenography to pedodontic research**
J Dent Child 32:3, 65. Cephalometric analysis of incisor crossbite correction.

DE-01044-6 DEN **LIEBMAN, FREDERICK M., Col. Dent., New York Univ., New York, N.Y. Muscle activity and jaw growth and development**
Proc Int Assn Dent Res (No 323):117, Jul 65. Jaw movement analysis with simultaneous EMG recording.

DE-01050-6 DEN **BAILEY, HAROLD S., Sch. Pharm., South Dakota State Col., Brookings, S.D. Effects of protein anabolic agents on dental tissue**
J Dent Res 44:442, 65. Studies on the biopharmacology of anabolic agents. IV. The effect of methandrostenolone on experimental dental caries in the rat.

DE-01057-6 DEN **FAIRHURST, CARL W., Sch. Dent., Marquette Univ., Milwaukee, Wis. Basic and applied studies of dental materials**
J Am Acad Gold Foil Operators 7, (No 1):17, Apr 64. Evaluation of two testing methods for gold foil specimens.

J Am Ceramic Soc 47, (No 1):5, Jan 64. Relation between molecular force calculations and observed strengths of enamel-metal interfaces.

J Am Dent Assn 67:816, Dec 63. Porosities in dental gold castings. II. Effects of mold temperature, sprue size and dimension of wax pattern.

J Dent Res 44, (No 1):58, Jan-Feb 65. A method of testing for marginal leakage of dental restorations with bacteria.

J Dent Res 44, (No 2):421, Mar-Apr 65. Tarnish of dental amalgam.

J Prosthet Dent 14, (No 3):442, May-Jun 64. Dimensional stability and fluid sorption in porcelain base dentures.

J Prosthet Dent 14, (No 5):955, Sep-Oct 64. Heat treatment of alloys to be used for the fused porcelain technique.

DE-01058-6 DEN **GREEP, ROY O., Sch. Dent., Harvard Univ., Boston, Mass. Eruption of teeth in the IA rat**
J Dent Res 43, (5 parts):885, 64. Nutritional and genetic influences on tooth eruption in the

DE-01075-6 DEN **MOORREES, COENRAAD F.A., Forsyth Dent. Cr., Boston, Mass. Swallowing and salivary flow in man**
Arch Oral Biol 10:83, 65. The frequency of deglutition in man.

Arch Oral Biol 10:669, 65. Measurement of lateral muscle forces on the dental arches.

DE-01114-6 DEN **SILBERKWEIT, MARIA, Col. Dent., Howard Univ., Wash., D.C. Histological study of gingiva of children**

DE-01157-5 PATH **GANS, BENJAMIN J., Sch. Dent., Northwestern U., Chicago, Ill. Transplantation on hamster bone growth centers**

DE-01166-5 DEN **BRADLEY, RICHARD E., Col. Dent., Univ. Nebraska, Lincoln, Nebr. Histochemical investigation of succinic dehydrogenase in human gingival tissue**

DE-01167-5 DEN **LEFKOWITZ, WILLIAM, Sch. Dent., Univ. Missouri, Kansas City, Mo. Cytology, histochemistry and biochemistry of odontogenesis**

DE-01177-6 DEN **BAVETTA, LUCIEN, Sch. Dent., Univ. So. California, Los Angeles, Cal. A study of developing rat tooth buds**

DE-01183-5 DEN **WYCKOFF, RALPH W.G., Univ. Arizona, Tucson, Arizona Electron optical microanalysis of teeth**
Biochim Biophys Acta 93:374, 64. The amino acid composition of proteins from pleistocene bones.

J Ultrastruct Res 11:173, 64. Collagen in fossil teeth and bones.

Norelco Rep 11, (No 3):104, Jul-Sep 64. Some applications of the electron probe to minerals.

Proc Nat Acad Sci 53, (No 2):230, Feb 65. The electron microscopy of Rancho La Brea bone.

Sci Hist Alliance Quart (LA Co. Museum) 2, (No 4), Spring 64. Proteins from Rancho La Brea fossils.

DE-01186-3 DEN **WILDERMAN, MALBERN N., Sch. Dent., Loyola Univ., New Orleans, La. Histogenesis of repair following osseous surgery**

DE-01201-6 BM **KRAUS, FREDERICK W., Univ. Alabama Med. Cr., Birmingham, Ala. Antimicrobial substances in saliva and oral tissues**
Periodontics 2, (No 6):263, Nov-Dec 64. The identification of protein components in fluid from gingival pockets.

DE-01206-5 CB **MOSS, MELVIN L., Columbia Univ., N.Y.C. Growth, repair and structure of acellular bone**

DE-01213-4 HEM **DOKU, HRISTO C., Sch. Den. Med., Tufts Univ., Boston, Mass. Evaluation of the thromboplastic and fibrinolytic activity of saliva**

DE-01215-5 DEN **HODOSH, MILTON, Brown Univ., Providence, R.I. The reactions of certain tissues to implanted artificial teeth**
J Am Dent Assn 70:362, Feb 65. Periodontal tissue acceptance of plastic tooth implants in primates.

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DE-01228-4 DEN **BENAVENT, WALTER J., Sch. Dent., Univ. Puerto Rico, San Juan, P.R. Studies in oral-facial anomalies**
Rev Odont Puerto Rico, Oct 63. A formula for tooth eruption.

Rev Odont Puerto Rico, Oct 64. Tooth eruption: A new hypothesis concerning its mechanism-regenerative displacement.

DE-01230-5 DEN **BARTON, PAUL, Sch. of Journalism, Ohio State Univ., Columbus, Ohio An investigation of dental writing**
Hosp Pharmacist 18, (No 1), Jan-Feb, 65. Writing--The second profession.

J Oral Surg, Jun 65. Reporting research results.

J Prosthet Dent, Mar-Apr 65. What happened to my article?

DE-01234-6 DEN **PEYTON, FLOYD A., Sch. Dent., Univ. Michigan, Ann Arbor, Mich. Evaluation and refinement of certain dental materials**
J Dent Res, Sep-Oct 65. The properties of natural waxes used in dentistry.

Oral Surg 15, (No 2):213, Feb 62. Physical properties of carbon steel root canal files and reamers.

J Dent Res 44:587, 65. Application of 17-7 precipitation-hardenable stainless steel in dentistry.

DE-01244-5 DEP SILVERMAN, SIDNEY, Col. Dent., New York Univ., N.Y.C. An interdisciplinary research program

DE-01252-5 DEN WEINSTEIN, SAM, Sch. Dent., Univ. Nebraska, Lincoln, Nebr. Tooth movement caused by unbalanced muscular forces

DE-01267-4 BM SNYDER, MARSHALL L., Sch. Dent., Univ. Oregon, Portland, Ore. Chemical/antigenic analyses of order actinomycetales

DE-01294-5 DEN GARN, STANLEY M., Fels Res. Inst., Yellow Springs, Ohio Determinants of dental development

DE-01298-5 MET GOLDHABER, PAUL, Harvard Univ., Boston, Mass. Further study of mechanisms of periodontal disease

Angiology 15, (No 12):515, Dec 64. Microcirculatory stasis and the production of tissue necrosis in the hamster cheek pouch induced by histamine or a histamine liberator.

Proc Soc Exp Biol Med 117, (No 3):721, Dec 64. Alteration in citrate metabolism in parathyroid extract-treated calvaria.

Science 147, (No 3656):407, 65. Heparin enhancement of factors stimulating bone resorption in tissue culture.

DE-01305-5 BM SOCRANSKY, SIGMUND S., Forsyth Dental Cr., Boston, Mass. Taxonomic studies of oral spirochetes

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J Bact 88:200, 64. Dependency of Treponema microdentium on other oral organisms for isobutyrate, polyamines, and a controlled oxidation-reduction potential.

J Bact 88:1087, 65. Electron microscopy of axial fibrils, outer envelope, and cell division of certain oral spirochetes.

DE-01309-5 DEN MOORREES, COENRAAD F.A., Forsyth Dental Infirmary, Boston, Mass. Facial and dental growth in twins and their siblings

DE-01313-5 SURG MATTHEWS, JAMES L., Col. Dent., Baylor Univ., Dallas, Texas The fate of intermembranous bone transplants

DE-01323-4 DEN GEDALIA, ITZHAC, Hadassah Med. Sch., Hebrew Univ., Jerusalem, Israel F content of fetal teeth and bone

Arch Oral Biol 9:331, 64. The fluoride content of teeth and bones of human foetuses.

DE-01333-4 DEN SHAFER, WILLIAM G., Sch. Dent., Indiana Univ., Indianapolis, Ind. Tissue culture applications to dental research

DE-01335-5 DEN HANSON, ROGER W., Sch. Dent., Univ. Alabama, Birmingham, Ala. The salivary secretion of organic compounds

Fed Proc 23:159, 64. Amino acid secretion by dog parotid gland.

DE-01345-5 PET WAGNER, MARTIN J., Col. Dent., Baylor Univ., Dallas, Tex. Fate of fluoride in the intestinal tract

DE-01352-5 DEN BECK, HEINZ O., Sch. Dent., Univ. Texas, Houston, Tex. Movements of the mandible and their reproductions

DE-01353-5 DEN MARGOLIS, FREDERICK J., Sch. Med., Wayne State Univ., Detroit, Mich. Fluorine--Effect on dentition when given from infancy

DE-01357-4 DEN EMERSON, WILLIAM H., Sch. Dent. Med., Tufts Univ., Boston, Mass. Infrared absorption spectroscopy of dental enamel

DE-01358-5 DEN PINDBORG, JENS J., Royal Dental College, Copenhagen, Denmark Studies in oral leukoplakias

Acta Odont Scand 21, (No 6):553, 63. Studies in oral leukoplakias.

Acta Odont Scand 22:499, 64. Studies in oral leukoplakias. VIII. Epithelial changes in tobacco-induced leukoplakias in India.

Acta Path Microbiol Scand 60, (No 3):305, 64. Studies in oral leukoplakias. VI. Deposits of amyloid in the oral submucosa induced by prolonged use of snuff.

DE-01374-5 PC VEIS, ARTHUR, Sch. Med., Northwestern Univ., Chicago, Ill. The state of collagen in calcified tissue

Biochemistry 3:1650, 64. The macromolecular organization of dentine matrix collagen. II. Periodate degradation and carbohydrate cross-linking.

Fed Proc 24:359, 65. Characterization of a

DE-01382-5 CB WILBUR, KARL M., Duke Univ., Durham, N.C. Calcification mechanisms in marine animals

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DE-02154-2 EP GIDDON, DONALD B., Sch. Dent., Tufts Univ., Boston, Mass. Physiological correlates of acute necrotizing gingivitis
Int Dent J 14, (No 4):468, Dec 64. Present concepts concerning the etiology and treatment of acute necrotizing ulcerative gingivitis.

DE-02160-1 DEN GREENER, EVAN H., Sch. Dent., Northwestern Univ., Chicago, Ill. Electrochemical behavior of dental materials

DE-02164-1 DEN SUPRINICK, HARRY, Sch. Eng., State Univ. New York, Buffalo, N.Y. Structure and properties of silver mercury amalgams

DE-02172-1 DEP COOPER, HERBERT K., Lancaster Cleft Palate Clinic, Lancaster, Pa. Research program for oral-facial-communicative disorders

DE-02180-1 DEN ZINNER, DORAN D., National Children's Cardiac Hosp., Miami, Fla. Epidemiologic patterns of cariogenic streptococci
Proc Am Soc Microbiol 65th Ann Mtg, Atlantic City, NJ, Apr 65. Cellular antigens of human and animal strains of cariogenic streptococci.
Proc Int Assn Dent Res 43rd Ann Mtg, Toronto, Canada, Jul 65. Cariogenic streptococci related to types of human clinical caries.

DE-02181-1 DEN McCLURE, ROBERT C., Sch. Vet. Med., Univ. Missouri, Columbia, Mo. Tetracycline and tooth development in swine

DE-02183-1 DEN BRUDEVOLD, FINN, Forsyth Dental Cr., Boston, Mass. Chemistry of enamel surface
J Dent Res 43:1168, 65. Effect of ingested supplemtary phosphate on the tooth surface.
Proc 11th Congr Europ Organization Res Fluorine and Dental Caries Prevention, Sandefjord, Norway, Jul 64. Physico-chemical aspects of the enamel-saliva system.

DE-02189-1 AMP SHAMOS, MORRIS H., Grad. Sch. Arts, Sci., New York Univ., New York, N.Y. Physical properties of mineralized tissues

DE-02192-1 DEN LUKIN, MARTIN, Sch. Dent., Univ. Maryland, Baltimore, Md. The effect of tetracyclines on the teeth of children

DE-02198-1 DEN MITCHELL, DAVID F., Sch. Dent., Indiana Univ., Indianapolis, Ind. Tetracyclines, bone, teeth and dental materials
J Ther Pharmacol 1:190, Sep 64. The tetracyclines: A review of the literature--1948 through 1963.

DE-02221-1 AI SHULMAN, LEONARD B., Sch. Dent. Med., Harvard Univ., Boston, Mass. Transplantation immunity in tooth homograf failures

DE-02225-1 DEN HEFFERREN, SANDRA M., American Dental Assn., Chicago, Ill. Luminescence of calcified tissue

DE-02231-1 PR SWINDLER, DARIS R., Col. Human Med., Michigan State Univ., East Lansing, Mich. Primate dental variability

DE-02232-1 DEP LEVY, BARNET M., Univ. Texas Dent. Br., Houston, Tex. The biology of the periodontium in health and disease

DE-02234-1 BM SNYDER, MARSHALL L., Sch. Dent., Univ. Oregon, Portland, Ore. The filamentous bacteria of oral surfaces

DE-02244-1 DEN EICHHORN, JOHN H., Sch. Dent., Univ. Pittsburgh, Pittsburgh, Pa. Hormones and transport processes in oral tissues

DE-02247-1 DEN RODRIGUEZ, MARIO S., Sch. Dent., Loyola Univ., New Orleans, La. Amino acid composition of tooth supporting tissues

DE-02256-1 DEN ARNOLD, JAMES S., Donald N. Sharp Mem. Community Hosp., San Diego, Cal. Turnover rate of dental tissues with labelled proline

DE-02259-1 NEU SMITH, R. DALE, Sch. Med., Creighton Univ., Omaha, Nebr. Innervation of the lateral pterygoid muscle

DE-02262-1 CSP ORLAND, FRANK J., Univ. Chicago, Chicago, Ill. Research manuscript publications in the J.D.R.

DE-02270-1 DEN GLAUSER, RUSSELL O., Indian Hlth. Cr., Intermountain Sch., Brigham City, Utah Indication for serial extraction in Navajo children

DE-02274-1 CB REITH, EDWARD J., New York Med. Col., New York, N.Y. Ultrastructure of enamel organ
Arch Oral Biol 9:31, 64. Succinic dehydrogenase in ameloblasts during formation and maturation of enamel.

DE-02284-1 DEN NIKIFORUK, GORDON, Univ. California Cr. Hlth. Sci., Los Angeles, Cal. Organic components of developing enamel
Proc Int Assn Dent Res Ann Mtg, Toronto, Canada, Jul 65. Purification and properties of enamel protein.

DE-02286-1 DEN JURAND, JERRY G., Col. Dent., Univ. Tennessee, Memphis, Tenn. Hypersensitivity reactions and periodontal disease

DE-02287-1 DEN HENRIQUES, BASIL L., Mass. Mem. Hosps., Boston, Mass. A study of methods and materials for tooth storage

DE-02290-1 DEN ERAUSQUIN, JORGE, Fac. Odontologia, Univ. Buenos Aires, Buenos Aires, Argentina Tissue reaction to root canal treatment

DE-02298-1 DEN CARNEIRO, JOSE, Sch. Med., Univ. Virginia, Charlottesville, Va. Protein metabolism in periodontal tissues

DE-02299-1 DEN HAFT, EVERETT E., Col. Eng., Kansas State Univ., Manhattan, Kans. Stresses in a model of the periodontal ligament

DE-02308-1 DEN SELIGER, WILLIAM G., Col. Vet. Med., Colorado State Univ., Ft. Collins, Colo. The effect of vascular drainage on bone destruction

DE-02318-1 DEN ASH, MAJOR M., Sch. Dent., Univ. Michigan, Ann Arbor, Mich. Intraoral pH monitoring by telemetry

DE-02326-1 DEN HENRIQUES, BASIL L., Massachusetts Mem. Hospitals, Boston, Mass. Electrolyte transport into dog submaxillary saliva

DE-02327-1 DEN HENRIQUES, BASIL L., Massachusetts Mem. Hospitals, Boston, Mass. Locate acinar-ductular secretion of glycoproteins

Contr. DE-64-502 Alpha Research and Development, Blue Island, Ill. Investigations leading to improved dental restorative materials

Contr. DE-64-530 Harris Research Lab., Washington, D.C. Dental restorative materials

Contr. DE-64-548 Epoxylite Corp., South El Monte, Cal. Conduct synthesis of epoxy resins for application to dentistry

Contr. DE-64-558 Virginia Inst. for Scientific Research, Richmond, Va. Surface properties of single crystals of hydroxyapatite

Contr. DF-64-583 National Childrens Cardiac Hosp., Miami, Fla. Microbial etiology of dental caries

Contr. DE-64-869 Halifax County Health Dept., Halifax, S.C. Familial study of oral facial defects

Contr. DE-64-924 American Dental Assn., Chicago, Ill. Maintain a dental research information center

Contr. DE-64-944 Res. Fdn. State Univ. New York, Albany, N.Y. Evaluation for carboxymethyl-cellulose gel

Contr. DE-65-15 M.M.M. Co., St. Paul, Minn. Research on mechanism of adhesion to teeth

Contr. DE-65-82 Stanford Res. Inst., Menlo Park, Cal. Conduct studies on the mechanisms of adhesion to teeth

Contr. DE-65-607 International Assn. Dental Res., Chicago, Ill. Publish a supplement of the Journal of Dental Research

Publications received from terminated DE projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

DENTAL HEALTH

DH-00001-7 DEN GISH, CHARLES W., Indiana State Bd. Health, Indianapolis, Ind. New approach to the topical application of fluorides

DH-00003-5 DEN FULTON, JOHN T., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C. Natural history of dental disease

DH-00004-5 DEN SHIERE, FREDERIC R., Sch. Dental Med., Tufts Univ., Boston, Mass. Cariostatic action of topical SnF2 and NaF brushing

DH-00010-5 HUE RICHARDS, LLOYD F., Cal. State Dept. Pub. Hlth., Berkeley, Cal. Hypoplasias in varying fluoride and temperature zones

DH-00014-5 HSR QUARANTELLI, ENRICO L., Ohio State Univ., Columbus, Ohio Professionalization of dental students
Sociol Soc Res 49:32, 64. Faculty and student perceptions in a professional school.

DH-00015-4 DEN HERBERTSON, JAMES E., Sch. Dent., Univ. Missouri, Kansas City, Mo. Value of visual aids in teaching human anatomy
J Dent Educ Vol 29, (No 1), Mar 65. The value of visual aids in teaching gross anatomy.

DH-00017-3 HSR DEAN, BURTON V., Case Inst. Tech., Cleveland, Ohio The design of prepaid dental plans

DH-00018-3 DEN SZWEJDA, LOUIS F., Michigan Dept. Hlth., Lansing, Mich. Topical fluorides in community programs

DH-00019-3 BS MORRIS, RICHARD T., Univ. California, Los Angeles, Cal. The evolution of the professional in dentistry

DH-00020-3 MH SOBOLIK, CLINTON F., Sch. Dent., Creighton Univ., Omaha, Nebr. Predicting denture acceptance through psychotechnics

DH-00021-3 HSR MORRIS, ROBERT, Sch. Soc. Welfare, Brandeis Univ., Waltham, Mass. Medical dependency and dental condition

DH-00022-2 DEN WELLOCK, WILLIAM D., Forsyth Dental Infirmary, Boston, Mass. Spray application of acid-phosphate fluoride solution

DH-00024-2 DEN LAW, FRANK E., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C. Fluoride supplements for elementary school children

DH-00033-1 HSR AVNET, HELEN H., Group Health Insurance, Inc., New York, N.Y. Dental utilization under fee-for-service prepayment

DH-00034-2 HSR ANDERSON, ODIN W., Grad. Sch., Univ. Chicago, Chicago, Ill. Family expenditure and use patterns for dental care

DH-00036-2 DEN LANG, ROBERT L., Sch. Dent., Univ. Oregon, Portland, Ore. Research on programed dental instruction

DH-00037-2 DEN RANDALL, PETER, Children's Hosp., Philadelphia, Pa. Cleft palate--Evaluation of postoperative velopharyngeal incompetence

DH-00041-1 HSR CUSSLER, MARGARET T., Col. Arts, Sci., Univ. Maryland, College Park, Md. Role and interaction changes involving dental auxiliaries

DH-00042-1 HSR MYRICK, RICHARD, George Washington Univ., Washington, D.C. Planning study--Behavioral factors in dental school design

DH-00044-1 HSR DOUGLAS, BRUCE L., Col. Dent., Univ. Illinois, Chicago, Ill. Effect of fluoridation upon dental practice

DH-00046-1 DEN HILL, IDEN N., Zoller Mem. Dent. Clinic, Univ. Chicago, Chicago, Ill. Epidemiology of oral health in a fluoridated area

DH-00048-1 DEN JORDAN, WILLIAM A., Minnesota Dept. Hlth., Minneapolis, Minn. Acidulated phosphate fluoride prophylaxis paste test

DH-00049-1 DEN PETERSON, JOHN K., North Dakota Dept. Hlth., Bismark, N.D. Acidulated phosphate fluoride prophylaxis paste text
Northwest Dent 44:110, Mar 65. Fargo-Moorhead dental survey - 1964.

DH-00050-1 HSR COLLARD, EARL W., Sch. Dent., Loma Linda Univ., Loma Linda, Cal. Evaluation of a new technique in dental education

DH-00057-1 NSS HARRIS, NORMAN O., Sch. Dent., Univ. Puerto Rico, San Juan, P.R. Hemispheric conference--Community dental health problems

DH-00076-1 DEN RESWICK, JAMES B., Case Inst. Technology, Cleveland, Ohio Investigation of the functional mandibular movements

DH-00082-1 DEN SAXE, STANLEY R., Univ. Kentucky Med. Cr., Lexington, Ky. Debris, calculus and periodontal disease

DIVISION OF RESEARCH GRANTS

Contr. DRG-63-84 American Univ., Washington, D.C. Conduct a series of 36 weekly seminars

Contr. DRG-64-44 Natl. Acad. Sci., Washington, D.C. Expand include evaluation of research support program

Contr. DRG-65-3 George Wash. Univ., Washington, D.C. Programming services for DRG operations

DIVISION OF RESEARCH SERVICES

Contr. DRS-65-12 — Beckman Instruments, Palo Alto, Cal. Preventive maintenance and service on Beckman-Spinco instrumentation

Contr. DRS-OD-65-62 — Ord-Marine Engr. Co., Kensington, Md. Design and fabricate prototype animal care and laboratory equipment

ENVIRONMENTAL ENGINEERING AND FOOD PROTECTION

EF-00002-12 TOX — ARANT, FRANK S., Sch. Agr., Auburn Univ., Auburn, Ala. Selective toxicity and

EF-00003-5 ESE — KOSIKOWSKI, FRANK V., Cornell Univ., Ithaca, N.Y. Development of a simple field test for antibiotics in milk

EF-00006-7 TOX — GOLDBLITH, SAMUEL A., Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass. Ecological factors of food-borne disease

J Food Sci 29, (No 4):469, 64. Effect of temperature on radiosensitivity of Salmonella typhimurium.

EF-00008-4 ESE — HOPPER, SAMUEL H., Indiana Univ. Med. Cr., Indianapolis, Ind. Identification of S. enterotoxin in foods

EF-00015-3 BM — HARMON, L.G., Sch. Agr., Michigan State Univ., East Lansing, Mich. Thermal death time of Staphylococcus aureus in milk

EF-00019-12 TOX — DAHM, PAUL A., Iowa State Univ., Ames, Iowa The metabolism of insecticides and their residues

EF-00020-7 TOX — WEISER, HARRY H., Ohio State Univ., Columbus, Ohio Influence of antibiotic feeding on poultry products

EF-00022-5 TOX — YANG, HOYA Y., Sch. Agr., Oregon State Col., Corvallis, Ore. Vitamin K5 as a food preservative

J Food Sci 30, (No 1):160, 65. Mode of action of vitamin K5 on Saccharomyces cervisiae.

EF-00024-6 ESE — WEISER, HENRY H., Col. Arts, Sci., Ohio State Univ., Columbus, Ohio Microbiological aspects of farm-pond water supplies

EF-00029-4 TOX — GUNTHER, FRANCIS A., Col. Agr., Univ. California, Riverside, Cal. Residue fates of organochlorine insecticides on foods

J Gas Chromatogr 2:223, 64. Extraction apparatus for gas chromatographic microsyringes.

Residue Rev 10:70, 65. DDD as a decomposition product of DDT.

EF-00031-4 BM — PEDERSON, CARL S., New York State Agr. Exp. Station, Cornell Univ., Geneva, N.Y. Microbial metabolism of lipids in fermented foods

Appl Microbiol 12, (No 6):513, Nov 64. Lipid alterations during the fermentation of dill pickles.

EF-00033-4 TOX — FANG, SHENG C., Oregon State Univ., Corvallis, Ore. Metabolism of herbicides and transformation products

J Agric Food Chem 12:219, May-Jun 64. Metabolism of 3-amino-1,2,4-triazole-5-C^{14} by rats.

EF-00035-4 CB — GOLDBERG, HERBERT S., Sch. Med., Univ. Missouri, Columbia, Mo. Plant hormone--Antimicrobial agent interactions and residues

Physiol Plantarum 17:805, 64. Influence of foliar characteristics on the absorption of a radioactive model compound by apple leaves.

Phytopath Z 51:324, 64. Penetration of excised apple cuticle membranes. II. Diffusion of radioactive model compounds and antibiotics and an analysis of membrane properties.

Phytopathology 54:1467, 64. Evidence of an energy requirement for absorption of carbon leaves.

Plant Disease Rep 48:180, 64. Compatibility of streptomycin with some fungicides.

PhD Thesis, Univ Missouri, 64. Interactions between antibiotics and plant growth regulators.

EF-00036-4 CV — ASHE, WILLIAM F., Sch. Med., Ohio State Univ., Columbus, Ohio Passenger health problems in jet air travel

EF-00040-3 ESE — BURCHINAL, JERRY C., Col. Eng., West Virginia Univ., Morgantown, W. Va. Sanitary landfill investigation

EF-00044-4 ESE — SIGLER, WILLIAM F., Grad. Sch., Utah State Univ., Logan, Utah Effects of anionic detergent on aquatic biota

EF-00047-3 ESE — HOSTY, THOMAS S., Ala. Dept. Pub. Hlth., Montgomery, Alabama Microbiological relationship in shellfish and growing areas of gulf waters

EF-00049-4 TOX — LISKA, BERNARD J., Sch. Agr., Purdue Univ., Lafayette, Ind. Effects of food storage on insecticide residues

J Agric Food Chem 12, (No 3):243, May-Jun 64. Rapid cleanup of dairy products for analysis of chlorinated insecticide residue by electron capture gas chromatography.

J Dairy Sci 46, (No 8):834, Aug 63. Milk fat from the Babcock test for insecticide residue analysis in dairy products.

J Econ Entom 57, (No 5):682, Oct 64. Problems resulting from the misuse of lindane fro chigger control on turkey ranges as related to residue in edible tissues.

J Milk Food Technol 27, (No 7):202, Jul 64. Analysis of animal food products for chlorinated insecticide residues. I. Column clean-up of samples for electron capture gas chromatographic analysis.

J Milk Food Technol 27, (No 8):231, Aug 64. Analysis of animal food products for chlorinated insecticide residues. II. Some factors involved in using electron capture gas chromatography.

Poultry Sci 43, (No 1):273, Jan 64. Analysis of egg yolk and poultry tissues for chlorinated insecticide residues.

Poultry Sci 43, (No 4):982, Jul 64. Residues in eggs and tissues of chickens on rations containing low levels od DDT.

EF-00060-5 HUE — GEZON, HORACE M., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa. Hospital nursery studies of staphylococcus

EF-00066-3 BIO — NAGEL, CHARLES W., Grad. Sch., Washington State Univ., Pullman, Wash. The pectic enzymes of the pear

EF-00067-3 BM — FRANK, HILMER A., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii Microbiology of Oriental foods in Hawaii

EF-00069-4 BM — SANDINE, WILLIAM E., Agr. Expt. Sta., Oregon State Univ., Corvallis, Ore. Lactose utilization by lactic streptococci

J Bact 89, (No 4):937, Apr 65. β-galactosidase of Streptococcus lactis.

J Dairy Sci 48, (No 1):14, Jan 65. Comparison of slow and fast acid-producing Streptococcus lactis.

EF-00076-3 BM — NELSON, F. EUGENE, Col. Agr., Univ. Arizona, Tucson, Ariz. Mechanisms of heat injury of vegetative bacteria

Food Trade 32, (No 8):38, Aug 62. Factors affecting enumeration of sublethally heated coliform bacteria.

EF-00077-4 TOX — SUGIYAMA, HIROSHI, Univ. Chicago, Chicago, Ill. Mode and site of action of staphylococcal enterotoxin

Proc Soc Exp Biol Med 117:115, 64. Diarrhea in cecectomized rabbits induced by staphylococcal enterotoxin.

Proc Soc Exp Biol Med 117:726, 64. Hyperfibrinogenemia and thrombocytopenia after staphylococcal enterotoxin.

EF-00079-3 TOX — CASTRO, CHARLES E., Univ. California, Riverside, Cal. The interaction of nematocides with soil organisms

EF-00080-4 MC — JOSLYN, MAYNARD A., Col. Agr., Univ. California, Berkeley, Cal. Chemistry and physiology of fruit leucoanthocyanins

Calif Agric 18, (No 2): 13, 64. Astringency of fruit and fruit products in relation to leucoanthocyanins content.

Nature 204:475, 64. The presence of several phenolic components in fruit proanthocyanidins.

Science 143:954, 64. Conversion of luecoanthocyanins into the corresponding anthocyanidins.

EF-00081-7 NTN — BRISKEY, ERNEST J., Univ. Wisconsin, Madison, Wisconsin pH Levels and related properties of porcine muscle

Advances Food Res 13:89, 64. Etiological status and associated studies of pale, soft, exudative porcine musculature.

J Anim Sci 20, (No 3):487, 61. Effect of preslaughter change to a cold environment on characteristics of pork muscle.

J Food Sci 26, (No 3):297, 61. Biochemistry of pork muscle structure. I. Rate of anaerobic glycolysis and temperature change versus the apparent structure of muscle tissue.

J Food Sci 29, (No 2):210, 64. Prevention of pale, soft, eudative porcine muscle through regulation of ante-mortem environmental temperature.

J Food Sci, Apr 65. A comparison of glycolysis and associated changes in light and dark portions of the porcine semitendinosus.

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J Food Sci. Apr 65. A comparison of glycolysis and associated changes in light and dark portions of the porcine semitendinosus.

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EF-00081-7 (Contd)

J Food Sci 30, (No 1):138, 65. Protein solubility and associated properties of porcine muscle as influenced by partial freezing with liquid nitrogen.

Proc Am Meat Inst Fdn, Univ Chicago, 63. The niacin and niacin-containing coenzyme contents of certain prok muscles and their relationship to certain post mortem muscle characteristics.

EF-00082-8 ESE MERCER, WALTER A., Natl. Canners Assn., Berkeley, Cal. Water conservation in food canning

EF-00084-4 TOX HAMMOND, EARL G., Iowa State Univ., Ames, Iowa Flavor defects limiting the use of unsaturated fats

J Am Oil Chem Soc 41:180, 64. The oxidized-metallic and grassy flavor components of autoxidized milk fat.

EF-00089-6 PC GLASS, ROBERT L., Grad. Sch., Univ. Minnesota, St. Paul, Minn. The biochemistry of wheat flour deterioration

EF-00091-4 PATH GOLDWATER, LEONARD J., Sch. Pub. Hlth., Columbia Univ., New York, N.Y. Distribution of mercury in human tissues

J Forensic Sci 9, (No 4):501, Oct 64. Mercury levels in normal human tissue. I. Spectrophotometric determination of mercury in tissue.

EF-00092-6 TOX JENNINGS, WALTER G., Grad. Sch., Univ. California, Davis, Cal. Characterization of volatile substances in foods

J Food Sci 29:730, 64. Volatile esters of Bartlett pear. IV. Esters of trans:2-cis:4 decadienoic acid.

J Food Sci 29:756, 64. Pear aroma, relation of instrumental and sensory techniques.

J Food Sci 29:796, 64. Volatile components of peach.

EF-00094-3 NTN NICKERSON, THOMAS A., Univ. California, Davis, Cal. Stability problems in concentrated milk products

J Dairy Sci 47:670, 64. Rheology of concentrated milk.

J Dairy Sci 47:673, 64. Complexing of calcium by hexametaphosphate, oxalate, citrate, and EDTA in milk.

J Food Sci 29, (No 4):443, 64. Changes in concentrated milk during frozen storage.

Nature 202, (No 4928):183, Apr 64. Changes in the proteins of milk destabilized during frozen storage.

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EF-00428-2 BM BRETZ, HAROLD W., Illinois Inst. Technology, Chicago, Ill. Endogenous reserves in frozen Escherichia coli

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EF-00440-3 VR CLIVER, DEAN O., Univ. Chicago, Chicago, Illinois Studies on virus contamination of foods

EF-00442-3 ESE DAWSON, L.E., Michigan State Univ., East Lansing, Mich. Chemical and bacteriological changes in frozen eggs

EF-00444-2 ESE BARIBO, LESTER, Microbiological and Biochemical Cr., Syracuse, N.Y. Static charge and the microbiology of food containers

EF-00447-3 VR HIRAI, TOKUZO, Col. Agr., Nagoya Univ., Anjo, Aichi-Ken, Japan Cytological and cytochemical studies on the early stage of infection by plant viruses
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EF-00454-2 TOX AXTELL, RICHARD C., North Carolina State Col., Raleigh, N.C. Biochemical control of the house fly
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EF-00468-2 BM McCROAN, JOHN E., Georgia Dept. Public Health, Atlanta, Ga. Staphylococci and salmonellae in wrapped sandwiches

EF-00473-3 TOX WICK, EMILY L., Mass. Inst. Technology, Cambridge, Mass. Volatile food constituents of biological importance

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EF-00481-2 PET HAMMOND, PAUL B., Col. Vet. Med., Univ. Minnesota, Minneapolis, Minn. Mechanisms of drug secretion into bovine milk

EF-00482-2 ESE MAXCY, R. BURT, Col. Agr., Univ. Nebraska, Lincoln, Nebr. Maintaining sterile lines for processing foods

EF-00483-2 MC SCHRAMM, LEE C., Col. Pharm., Univ. Minnesota, Minneapolis, Minn. Investigation of Gibberella zea toxin

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EF-00507-2 BM MORRISON, S.M., Col. Vet. Med., Colorado State Univ., Fort Collins, Colo. Factors affecting sanitary quality of ice

EF-00508-2 MC STERMITZ, FRANK R., Col. Sci., Utah State Univ., Logan, Utah Poisons from Astragalus miser and other range plants

EF-00509-2 NTN VAVICH, MITCHELL G., Col. Agr., Univ. Arizona, Tucson, Ariz. Metabolism of cyclopropenoid fatty acids in animals
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EF-00530-2 ESE KAISER, ELMER R., Col. Eng., New York Univ., New York, N.Y. Pyrolysis of municipal refuse

EF-00531-2 TOX SCHANDERL, SIGMUND H., Col. Agr., Michigan State Univ., East Lansing, Mich. Mechanism of chlorophyll degradation

EF-00532-2 TOX DAY, EDGAR A., Sch. Agr., Oregon State Univ., Corvallis, Ore. Heat induced changes in the flavor properties of milk

EF-00539-2 NTN JONES, IVAN D., Agr. Expt. Station, North Carolina State Col., Raleigh, N.C. Metal complexes and color of certain processed foods

EF-00541-1 ESE BERRY, EDWARD C., Sch. Agr., South Dakota State Col., Brookings, S.D. Microbiological stabilization of animal wastes

EF-00543-2 TOX STREET, JOSEPH C., Col. Agr., Utah State Univ., Logan, Utah Mammalian metabolism of chlorinated hydrocarbon insecticides
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EF-00547-2 TOX ALEXANDER, MARTIN, Col. Agr., Cornell Univ., Ithaca, N.Y. Microbial and plant degradation of herbicides

EF-00551-1 ESE FREY, CARL A., Col. Arts, Sci., Ohio Univ., Athens, Ohio Bacterial aspects of hot machine vended sandwiches

EF-00558-2 ESE LISTON, JOHN, Col. Fisheries, Univ. Washington, Seattle, Wash. Growth and survival of bacteria on seafoods
Bact Proc RT7, 64. Lethal cold shock in Escherichia coli and Salmonella.

EF-00564-2 BM WHEELER, HARRY E., Col. Arts, Sci., Louisiana State Univ., Baton Rouge, La. Pathological changes in fine structure

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EF-00567-2 TOX FRANCIS, FREDERICK J., Col. Agr., Univ. Massachusetts, Amherst, Mass. Pigment studies in processed green vegetables
Food Technol 18, (No 10):141, Oct 64. Effect of pH adjustment and HTST processing on color and
J Food Sci 29:379, Jul-Aug 64. Kinetics of thermal degradation of chlorophyll in spinach puree.

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EF-00570-2 BM BAKER, ROBERT C., Col. Agr., Cornell Univ., Ithaca, N.Y. Exterior egg structures as barriers to microbes

EF-00571-2 TOX HUNT, ELDRIDGE G., California Dept. of Fish and Game, Sacramento, Cal. Significance of insecticide residues in pheasants

EF-00574-2 TOX FANG, SHENG C., Sch. Agr., Oregon State Univ., Corvallis, Ore. Organic mercurial fungicides and metabolism

EF-00576-2 BM SNYDER, WILLIAM C., Col. Agr., Univ. California, Berkeley, Cal. Biological consequences of plant residue decomposition in soil

EF-00579-1 ESE SILVERMAN, LESLIE, Sch. Pub. Hlth., Harvard Univ., Boston, Mass. Incineration of infectious and radioactive solid wastes

EF-00584-2 HSR BELCHER, JOHN C., Col. Arts, Sci., Univ. Georgia, Athens, Ga. Sanitation in an industrializing environment

EF-00590-2 BM DIENER, URBAN L., Auburn Univ., Auburn, Ala. Growth and toxin production of food-storage fungi

EF-00593-2 TMP ALLISON, RAY, Sch. Agr., Auburn Univ., Auburn, Ala. Parasiticidal activity of organophosphate compounds

EF-00596-1 SSS MANDELKER, DANIEL R., Sch. Law, Washington Univ., St. Louis, Mo. Impact of slum owner relocation on slum formation

EF-00598-2 BM MUNDT, J. ORVIN, Agr. Expt. Station, Univ. Tennessee, Knoxville, Tenn. Enterococci in frozen vegetables

EF-00600-1 TOX OLCOTT, HAROLD S., Col. Agr., Univ. California, Berkeley, Cal. Persistent toxic compounds in marine food organisms

EF-00602-1 NTN NAWAR, WASSEF W., Col. Agr., Univ. Massachusetts, Amherst, Mass. Effects of ionizing radiation on food lipids

EF-00611-2 TOX RALLS, JACK W., National Canners Assn., Berkeley, Cal. Fate of diazinon on and in foods

EF-00614-2 TOX RAY, SAMMY M., A. and M. Marine Laboratory, Ft. Crockett, Galveston, Texas Laboratory study of toxic dinoflagellates

EF-00615-1 TOX GRAHAM, HORACE D., Col. Agr., Mechanic Arts, Univ. Puerto Rico, Mayaguez, P.R. Determination and reactions of food gums

EF-00619-2 TOX McINTOSH, THOMAS H., Col. Agr., Univ. Arizona, Tucson, Arizona Reactions of triazine-herbicides with soil components

EF-00621-1 TMP MACKIN, JOHN G., Col. Arts, Sci., Texas AM Univ., College Station, Tex. Development of Dermocystidium marinum

EF-00624-1 BM HALL, C.W., Michigan State Univ., East Lansing, Mich. Transport mechanisms of microorganisms in food plant air

EF-00627-1 TOX WITT, JAMES M., Col. Agr., Univ. Arizona, Tucson, Ariz. Environmental sources of pesticide entry into milk

EF-00628-2 TOX MILLEMANN, RAYMOND E., Agr. Expt. Station, Oregon State Univ., Corvallis, Ore. Effects of pesticides on estuarine organisms

EF-00629-1 TOX KRONSTAD, WARREN E., Oregon State Univ., Corvallis, Ore. Pesticide induced genetic changes in plant species

EF-00632-2 BM BOHRER, C. WALLACE, National Canners Assn., Washington, D.C. Thermal destruction of type E Clostridium botulinum

EF-00639-1 TOX CURL, ELROY A., Sch. Agr. Auburn Univ., Auburn, Alabama Interactions of soil microorganisms and herbicides
Proc SWC 18:605, 65. The absorption, translocation and metabolism of dichlobenil.
Proc SWC 18:615, 65. Preliminary studies on the degradation of paraquat by soil microorganisms.

EF-00644-1 BM SADLER, WALTER W., Sch. Vet. Med., Univ. California, Davis, Cal. Study of S. aureus enterotoxin with fat

EF-00652-1 TOX NEWLIN, HARRISON E., Midwest Research Inst., Kansas City, Mo. Symposium on antimetabolites and food toxins

EF-00653-1 BS GORDON, CHAD, Grad. Sch. Arts. Sci., Harvard Univ., Cambridge, Mass. A process approach to metropolitan decision-making

EF-00654-1 HSR SCHOOLER, KERMIT K., Brandeis Univ., Waltham, Mass. Residential physical environment and health of the aged

EF-00656-1 BM GREEN, JOHN H., Col. Agr., Univ. Massachusetts, Amherst, Mass. Physiology of C. botulinum type E

EF-00663-1 TOX OWENS, ROBERT G., Boyce Thompson Inst., Yonkers, N.Y. Studies on mycotoxins

EF-00668-1 TOX SPECK, MARVIN L., North Carolina State of Univ. North Carolina, Raleigh, N.C. Metabolic injury of bacteria caused by freezing

EF-00669-1 TOX HILL, ROBERT M., Grad. Col., Univ. Nebraska, Lincoln, Nebr. Nitrate toxicity associated with plant and animal metabolism

EF-00671-1 BM HASKIN, HAROLD H., Rutgers Univ., New Brunswick, N.J. Purification of hard clams from polluted waters

EF-00674-1 HSR STRONG, ANN L., Sch. Law, Univ. Pennsylvania, Philadelphia, Pa. European methods of controlling urban expansion

EF-00676-1 TOX JOHANSEN, CARL A., Grad. Sch., Washington State Univ., Pullman, Wash. Honey contamination by plant systemic insecticides

EF-00677-1 BM HOLTMAN, D. FRANK, Grad. Sch., Univ. Tennessee, Knoxville, Tenn. Ecology of Clostridium botulinum in the TVA lakes area

EF-00683-1 HSR GUEST, LESTER, Col. Liberal Arts, Pennsylvania State Univ., University Park, Pa. Attitudes about sanitation in restaurants

EF-00689-1 NTN HACKLER, L. ROSS, New York State Agr. Expt. Station, Cornell Univ., Geneva, N.Y. Effect of processing on nutritional value of protein

EF-00693-1 SSS BUMPUS, DEAN F., Woods Hole Oceanographic Inst., Woods Hole, Mass. Circulation on the continental shelf

EF-00694-1 BM MATELES, RICHARD I., Sch. Sci., Massachusetts Inst. Technology, Cambridge, Mass. Toxic metabolites of Aspergillus flavus

EF-00696-1 BM SNOEYENBOS, GLENN H., Col. Agr., Univ. Massachusetts, Amherst, Mass. Control of Salmonella

EF-00700-1 SSS STEVENS, BENJAMIN H., Regional Sci. Res. Inst., Philadelphia, Pa. Comprehensive programming of public facilities

EF-00709-1 BM BOOTH, JOHN A., Sch. Agr., New Mexico State Univ., University Park, N. Mex. Physiology of plant tolerance to fungal infection

EF-00710-1 ESE PURDOM, P.W., Col. Eng., Sci., Drexel Inst. Technology, Philadelphia, Pa. Study of incinerator residue

EF-00717-1 ESE GEMMELL, ROBERT S., Northwestern Univ., Evanston, Ill. Orthokinetic coagulation studies

EF-00722-1 TOX ISSENBERG, PHILLIP, Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass. Volatile wood smoke components absorbed by foods

EF-00727-1 NTN BRISKEY, ERNEST J., Col. Agr., Univ. Wisconsin, Madison, Wis. Symposium physiology and chemistry of muscle as a food

EF-00735-1 ESE SILVERMAN, LESLIE, Sch. Pub. Hlth., Harvard Univ., Boston, Mass. Systems analysis for shipborne municipal incineration

EF-00736-1 SSS MACKIN, JOHN G., Col. Arts, Sci., Texas AM Univ., College Station, Tex. Studies on the Protistan causing Malpeque disease

EF-00738-1 BM FENNEMA, OWEN, Col. Agr., Univ. Wisconsin, Madison, Wis. Gas hydrates in biological and other organic systems

EF-00739-1 BM MAXCY, R. BURT, Col. Agr., Univ. Nebraska, Lincoln, Nebr. Microflora and deterioration of dairy equipment

EF-00746-1 ESE HOFFMAN, DONALD A., Chollas Operations Station, San Diego, Cal. Pyrolysis of solid municipal wastes

EF-00748-1 BBC HANSEN, POUL M.T., Col. Agr., Ohio State Univ., Columbus, Ohio Hydrophilic colloid interactions in milk systems

EF-00749-1 TOX CRUMP, MALCOLM H., Col. Vet. Med., Iowa State Univ., Ames, Iowa The pharmacology of specific mycotoxins

EF-00753-1 TOX BISWAS, PROSANTO K., Sch. Agr., Tuskegee Inst., Tuskegee Institute, Ala. The degradation products of herbicides

EF-00756-1 BM BABEL, FREDERICK J., Sch. Agr., Purdue Univ., Lafayette, Ind. Milk-coagulating enzymes of microbial origin

EF-00766-1 TOX SCHULTZ, HAROLD W., Sch. Agr., Oregon State Univ., Corvallis, Ore. Symposium on foods--Chemistry and physiology of flavor

Publications received from terminated EF projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

ENVIRONMENTAL HEALTH SCIENCES

ES-00001-1 SPP VAUGHAN, HENRY F., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich. Fundamentals of an environmental health study

ES-00002-3 ESE WHITTENBERGER, JAMES L., Harvard Sch. Pub. Hlth., Boston, Mass. Occupational and environmental health
Air Water Pollut 8:125, 64. A comparison of the acute effects of SO_2 administered alone or in combination with NaCl particles on the respiratory mechanics of healthy adults.
Anesthesiology 25:470, 64. Air pollution and disease.
Toxic Appl Pharmacol 6:355, 64. Altered enzyme activities in liver of rats treated with chemical irritants.

ES-00008-2 SSS CADE, THOMAS J., Sch. Liberal Arts, Syracuse Univ., Syracuse, N.Y. Physiological adaptation to desert conditions
Physiol Zool 38:9, 65. Water economy and metabolism of two estrildine finches.

ES-00012-1 ESE DILLON, ROBERT M., National Academy Sciences, Washington, D.C. Conference on frozen ground

ES-00013-2 TOX GESSNER, TERESA, Sch. Pharm., State Univ., New York, Buffalo, N.Y. Selective toxicity--An approach to environmental health

ES-00014-2 SRC NELSON, NORTON, New York Univ. Med. Cr., New York, N.Y. Research in environmental health and cancer

ES-00016-2 SSS WILSON, BILLY R., Col. Agr., Rutgers State Univ., New Brunswick, N.J. Fate of pesticides
Clin Pharmacol Ther 5, (No 6):677, 64. Pollution of the water environment by organic pesticides.

ES-00018-1 NSS CHICHESTER, CLINTON O., Sch. Agr., Univ. California, Davis, Cal. Conference on agricultural chemicals

ES-00019-1 SSS O'BRIEN, EDWARD E., Col. Eng., State Univ. New York, Stony Brook, N.Y. Pollutant dispersion in shear flows

ES-00020-2 HSR BARNOWE, THEODORE J., Col. Business Admin., Univ. Washington, Seattle, Wash. A study of administration of environmental sanitation

ES-00021-2 PATH BASSETTE, RICHARD, Sch. Agr., Kansas State Univ., Manhattan, Kans. Analysis of trace volatiles in biological fluids

ES-00022-2 TMP CLOUTIER, ELMER J., Sch. Natural Sci., Elmira Col., Elmira, N.Y. Photoperiod and insect morphogenesis

ES-00023-2 TMP WINGO, CURTIS W., Col. Agr., Univ. Missouri, Columbia, Mo. Ecological factors affecting Musca autumnalis DeGeer

ES-00024-2 TOX MEDLER, JOHN T., Col. Agr., Univ. Wisconsin, Madison, Wis. Effect of certain insect toxins on cell hypertrophy

ES-00025-2 BM BUNGAY, HENRY R., III, Virginia Polytechnic Inst., Blacksburg, Va. Growth in mixed cultures of microorganisms
Bact Proc G45, 65. Growth of Spirillum volutans Ehrenberg in a bacteria-free environment.
J Bact 89:693, 65. Mixed-culture interactions. 1. Commensalism of Proteus vulgaris with Saccharomyces cerevisiae in continuous culture.
PhD Thesis, Virginia Polytech Inst, 64. Mixed cultures of microorganisms.

ES-00026-2 SSS SMALL, LAWRENCE F., Sch. Sci., Oregon State Univ., Corvallis, Ore. Energy transfer between lower marine trophic levels

ES-00030-2 SSS McLIMANS, WILLIAM F., Roswell Park Mem. Inst., Buffalo, N.Y. Project Gen-C--The culture of normal cells

ES-00032-1 NSS MEEK, PETER G., National Health Council, N.Y.C. Health needs in our changing environment

ES-00035-1 BM STRICKLAND, JOHN D.H., Univ. California, San Diego, La Jolla, Cal. Standing stock and growth of bacteria in the sea

ES-00037-2 TOX MICHAELI, DOV, Kaiser Fdn. Hosp., San Francisco, Cal. The immunoenzymology of acetylcholinesterase

ES-00039-2 TMP TUCKER, JOHN S., Raymond Col., Univ. Pacific, Stockton, Cal. Reproductive cycles in marine benthic invertebrates

ES-00040-2 SSS FREED, VIRGIL H., Sch. Agr., Oregon State Univ., Corvallis, Ore. Toxicology of pesticides in the environment

ES-00042-2 SSS EL-SAYED, SAYED Z., Col. Arts, Sci., Texas AM Univ., College Station, Tex. Primary production

ES-00044-1 SSS GUTHRIE, FRANK E., Inst. Biol. Sci., North Carolina State Univ. of North Carolina, Raleigh, N.C. Mechanisms of pesticide toxicity
Nature 204:300, 64. Metabolism of nicotine by by tobacco-feeding insects.

ES-00047-1 SSS KRUGER, PAUL, Sch. Eng., Stanford Univ., Stanford, Cal. Fallout from cyclones along the Pacific coast

ES-00048-1 TOX ZAVON, MITCHELL R., Kettering Lab., Cincinnati, Ohio Distribution of insecticides in human fat

ES-00049-1 TOX CASIDA, JOHN E., Col. Agr., Univ. California, Berkeley, Cal. Mode of action and metabolism of organic toxicants

ES-00052-1 SSS DEICHMANN, WILLIAM B., Sch. Med. Univ. Miami, Coral Gables, Fla. Study of ecology of pesticides in South Florida
J Occup Med 6, (No 12), Dec 64. Pesticides used in Dade County, Fla. during 1962.

ES-00054-1 SSS STEWART, GEORGE F., Univ. California, Davis, Cal. Support for Toxicology Center

ES-00058-1 PATH POPPER, HANS, Mount Sinai Hosp., New York, N.Y. Hepatic no-effect level of Dieldrin and Aldrin

ES-00060-4 TOX WHITE, JOE L., Agr. Expt. Station, Purdue Univ., Lafayette, Ind. Pesticide-soil colloid interactions
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FR-00062-3 CLR **RILEY, HARRIS D., Jr.**, Univ. Oklahoma, Med. Cr., Okla. City, Okla. General clinical research center

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FR-00065-3 CLR **HARLAN, WILLIAM R.**, Med. Col. Virginia, Richmond, Va. General clinical research center

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FR-00102-2 CLR McCARTY, MACLYN, Rockefeller Inst., New York, N.Y. General clinical research center

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FR-00109-2 CLR SLATER, ROBERT J., Univ. Vermont, Burlington, Vermont Clinical research center

FR-00111-2 COM LONG, ERNEST C., Duke Univ. Med. Cr., Durham, N.C. General purpose analog-digital conversion facility

FR-00112-2 SPR ALLAM, MARK W., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa. Study of laboratory animals in health and disease

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FR-05569-1 GRS LEZER, LEON R., Boston City Hosp., Boston, Mass. General research support

FR-05570-1 GRS HUTCHINSON, DONALD L., Magee-Womens Hosp., Pittsburgh, Pa. General research support

FR-05571-1 GRS ROWE, THOMAS D., Univ. Michigan, Ann Arbor, Mich. General research support

FR-05575-1 GRS JOUBLANC, EUGENE M., St. Joseph's Hosp., Phoenix, Ariz. General research support

FR-05576-1 GRS STETTEN, DeWITT, Jr., Rutgers State Univ., New Brunswick, N.J. General research support

FR-05577-1 GRS TOMPSETT, RALPH, Baylor Univ. Med. Cr., Houston, Tex. General research support

FR-05579-1 GRS MILHORAT, ADE T., Inst. for Muscle Disease, New York, N.Y. General research support

FR-05580-1 GRS DAVIES, T.H., Mellon Inst. of Industrial Res., Pittsburgh, Pa. General research support

FR-05583-1 GRS FITZ, REGINALD H., Univ. New Mexico, Albuquerque, N. Mex. General research support

FR-05584-1 GRS PINKEL, DONALD, St. Jude Hosp., Memphis, Tenn. General research support

FR-05585-1 GRS RODAHL, KAARE, Lankenau Hosp., Philadelphia, Pa. General research support

FR-05589-1 GRS ROSENBERG, ABRAHAM, Hosp. for Joint Diseases, New York, N.Y. General research support

FR-05590-1 GRS CATHCART, H. ROBERT, Pennsylvania Hosp., Philadelphia, Pa. General research support

FR-05591-1 GRS WARREN, SHIELDS, New England Deaconess Hosp., Boston, Mass. General research support

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Contr. DRFR-64-44 T.O.12 — National Academy Science, Washington, D.C. Advisory services on lab. animals

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GM-01839-17 PET WAY, E. LEONG, Univ. California, San Francisco, Cal. Metabolism of basic amines of therapeutic interest

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GM-03123-15 SURG BOCANEGRA, MANUEL, Hosp. del Nino, Lima, Peru Cause and treatment of early and late deaths in burns

GM-03193-13 PC CRANDALL, DANA I., Col. Med. Univ. Cincinnati, Cincinnati, Ohio Enzyme-coenzyme interaction oxygen transferases

GM-03349-14 PET DuBOIS, KENNETH P., Sch. Med., Univ. Chicago, Chicago, Illinois Pharmacology and toxicology of certain insecticides
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GM-11907-2 BIO **FISHER, JAMES R., Grad. Sch., Florida State Univ., Tallahassee, Fla.** Comparative studies of adenosine deaminase

GM-11908-1 MC **PRYOR, WILLIAM A., Col. Chem., Physics, Louisiana State Univ., Baton Rouge, La.** Radical reactions of disulfides and peroxides

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GM-11916-2 BIO **ZIMM, BRUNO H., Sch. Sci., Eng., Univ. California, La Jolla, Cal.** Nucleic acids and other biological macromolecules

GM-11921-1 BBC **KAUZMANN, WALTER, Frick Chemical Lab., Princeton Univ., Princeton, N.J.** Effects of high pressures on proteins

GM-11923-2 RAD **SHAPIRO, ROBERT, Hospital of St. Raphael, New Haven, Conn.** Binding of radiographic contrast media to proteins

GM-11931-2 NSS **CINTRON-RIVERA, A. A., Sch. Med., Univ. Puerto Rico, San Juan, P.R.** Visiting scientist program for the Clinical Research Center

GM-11932-2 SSS **BAUM, WALTER R., Grad. Sch., Syracuse Univ., Syracuse, N.Y.** Mathematical formulation of the problem of shape

GM-11933-2 SSS **GRIZZLE, JAMES E., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.** Statistical evaluation of granulocyte kinetics

GM-11934-2 SSS **FEDERSPIEL, CHARLES F., Sch. Med., Vanderbilt Univ., Nashville, Tenn.** A multiple regression method for fragmentary data

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GM-11946-3 PC **MARMUR, JULIUS, Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.** Properties of transforming and infectious DNAs

GM-11947-2 PC **PUNNETT, THOMAS R., Jr., Col. Lib. Arts, Temple Univ., Philadelphia, Pa.** The chemical composition of algal cell walls

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GM-11949-3 CB **GUTTES, EDMUND W., Sch. Arts, Sci., Loyola Univ., Chicago, Ill.** Studies on the mitotic cycle in Physarum polycephalum

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GM-11956-2 GEN **STRICKBERGER, MONROE W., Grad. Sch., St.Louis Univ., St.Louis, Mo.** Population genetics of Drosophila

GM-11957-2 GEN **STENT, GUNTHER S., Univ. California, Berkeley, Cal.** The genetic determination of ribosomal proteins

GM-11959-2 PHY **NORRIS, KENNETH S., Col. letters, Sci., Univ. California, Los Angeles, Cal.** Radiotelemetry of reptile body temperatures

GM-11961-3 PET **PROCITA, LEONARD, Albany Med. Col., Albany, N.Y.** Ryanodine contracture of mammalian muscle

GM-11963-2 MC **BARKER, ROBERT, Med. Sch., State Univ. Iowa, Iowa City, Iowa** Anhydroalditols

GM-11966-2 MC **CHILTON, WILLIAM S., Univ. Washington, Seattle, Washington** ORD studies on natural products related to sugars

GM-11967-2 MC **COLTER, ALLAN K., Carnegie Inst. Technology, Pittsburgh, Pa.** Molecular complexes in acid-base equilibria

GM-11968-2 MC **SCHULTZ, HARRY P., Col. Arts, Sci., Univ. Miami, Coral Gables, Fla.** Quinoxaloyl peptides

GM-11973-2 MC **FRYDMAN, BENJAMIN J., Univ. Buenos Aires, Buenos Aires, Argentina** Biosynthetic intermediates of porphyrins

GM-11974-2 MC **PENNER, HELLMUT P., Fisk Univ., Nashville, Tenn.** Study of the 1,3-diazetidine ring system

GM-11975-2 MC **PAQUETTE, LEO A., Ohio State Univ., Columbus, Ohio** Tricyclic tropane congeners

GM-11976-2 MC **HORTON, DEREK, Grad. Sch., Ohio State Univ., Columbus, Ohio** Synthesis of biologically important carbohydrates

GM-11979-2 BBC **BEAUDET, ROBERT A., Grad. Sch., Univ. So. California, Los Angeles, Cal.** Studies of nonbonded forces by microwave spectroscopy

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GM-11987-1 BBC **KENT, ALLEN, Univ. Pittsburgh, Pittsburgh, Pa.** Notation studies on pyrimidine derivatives

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GM-11996-2 MC **MOELLER, THERALD, Noyes Chemical Lab., Univ. Illinois, Urbana, Ill.** Syntheses, reactions, structures of phosphonitriles

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GM-12006-2 BBC **RICHARDS, FREDERIC M., Grad. Sch., Yale Univ., New Haven, Conn.** Studies of enzymes in solution and in solid state
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GM-12009-2 BBC **HARTLEY, ARNOLD M., Col. Arts, Sci., Univ. Illinois, Urbana, Ill.** Electrochemical studies of biochemical redox systems

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GM-12013-2 BBC **MILLER, IRVING F., Polytechnic Inst., Brooklyn, N.Y.** Electro-osmotic artificial kidney

GM-12014-2 PATH **FREIMUTH, HENRY C., Maryland Medical-Legal Fdn., Baltimore, Md.** Mechanism of death in fresh water drowning

GM-12015-2 COM **ENSLEIN, KURT, 42 East Ave., Rochester, N.Y.** Generalized pattern recognition program

GM-12017-6 GEN **FINGER, IRVING, Haverford Col., Haverford, Pa.** Immunological studies of gene action in Paramecium
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GM-12022-2 BIO **CLEMENT, GERALD E., Harpur Col., State Univ. New York, Binghamton, N.Y.** The mechanism of pepsin action

GM-12023-9 PATH **RICHTER, GOETZ W., Col. Med., Cornell Univ., New York, N.Y.** Electron microscopy in pathology
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GM-12030-2 RAD **CALKINS, JOHN, Univ. Kentucky Med. Cr., Lexington, Ky.** A general analysis of biological effects of radiation
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GM-12032-1 BBC **RASHEVSKY, NICOLAS, Sch. Med., Univ. Michigan, Ann Arbor, Mich.** Research in mathematical biology

GM-12035-2 MC **LEMAL, DAVID M., Grad. Sch., Univ. Wisconsin, Madison, Wis.** Nitrogen-, oxygen- and sulfur-substituted carbenes
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GM-12039-2 VR **KUHN, CEDRIC W., Dept. Plant Pathology, Georgia Experiment Station, Experiment, Ga.** Mechanism of in vivo inactivation of plant viruses
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GM-12042-2 PC **SCHMIDT, ROBERT R., Virginia Polytechnic Inst., Blacksburg, Va.** Metabolic role of nucleotide peptides

GM-12045-2 PC **OSAWA, SYOZO, Res. Inst. Nuclear Med., Biology, Hiroshima Univ., Hiroshima, Japan** Synthesis and function of messenger RNA
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GM-12046-1 GEN **MAKELA, V.E. OLAVI, Sch. Med., Univ. Helsinki, Helsinki, Finland** Genetic studies of antibody and antigen synthesis

GM-12047-1 CB **BARR, H. JAY, Sch. Med., Western Reserve Univ., Cleveland, Ohio** Studies with Xenopus in regeneration and cytology

GM-12048-2 PC **RODWELL, VICTOR W., Univ. California Med. Cr., San Francisco, Cal.** Metabolism of pipecolic acid in a Pseudomonas species

GM-12049-2 SURG **WU, CLYDE, Col. Med., Wayne State Univ., Detroit, Mich.** Evaluation of post-anesthetic respiratory function

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GM-12052-2 BIO **TAKAGI, YASUYUKI, Sch. Med., Kyushu Univ., Fukuoka City, Japan** Synthesis of deoxyribonucleic acid in bacteria

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GM-12057-1 SURG **BROMBERG, BERTRAM E., Downstate Med. Cr., State University of New York, Brooklyn, N.Y.** Pig skin as temporary dressing for skin wounds

GM-12058-2 SURG **ESMOND, WILLIAM G., University Hosp., Baltimore, Md.** Biochemical studies of oxygen toxicity in shock

GM-12059-1 PC **LESLIE, JAMES, Sch. Pharm., Univ. Maryland, Baltimore, Md.** Reactivity of amino acid side groups in proteins
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GM-12062-2 PMY MURGATROYD, DOROTHY, John B. Pierce Fdn. Lab., New Haven, Conn. Behavioral response to heating and cooling the brain

GM-12063-2 BBC TIEN, H. TI, Sch. Liberal Arts, Northeastern Univ., Boston, Mass. Duplex molecular lipoid membranes in aqueous solution

GM-12064-2 MET HULTIN, HERBERT O., Col. Agr., Univ. Mass., Amherst, Mass. Distribution of glycolytic enzymes in skeletal muscle

GM-12070-1 AI TRIPP, MARENES R., Sch. Arts, Sci., Univ. Delaware, Newark, Del. Comparative immunology of mollusks

GM-12071-1 CV BATTINO, RUBIN, Illinois Inst. Technology, Chicago, Ill. Gas solubilities in selected solvents and solutions

GM-12073-2 AFY WHITLEY, JIMMIE D., Col. Letters, Sci., Univ. California, Riverside, Cal. The influence of increased strength on limb speed

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GM-12715-1 GEN CASPARI, ERNST W., Col. Arts, Sci., Univ. Rochester, Rochester, N.Y. Pleiotropism at the a locus of Ephestia

GM-12716-1 RAD OVADIA, JACQUES, Michael Reese Hosp., Med. Cr., Chicago, Ill. Pulse radiolysis in radiation biology

GM-12717-1 PC VASINGTON, FRANK D., Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn. Study of histidine B gene and enzymes it specifies

GM-12718-1 CB GOSS, CHARLES M., Sch. Med., Louisiana State Univ., New Orleans, La. Travel to VIII International Congress of Anatomists

GM-12722-1 PC BURCHFIELD, HARRY P., Southwest Research Inst., San Antonio, Tex. Chromatography and selective detection of amino acids

GM-12725-1 BIO WOLFENDEN, RICHARD V., Princeton Univ., Princeton, N.J. Chemical mechanisms of biosynthesis

GM-12729-1 SSS HAMNER, KARL C., Sch. Med., Univ. California, Los Angeles, Cal. Computer studies of plant leaf movements

GM-12730-1 MC KLEMM, LEROY H., Grad. Sch., Univ. Oregon, Eugene, Ore. Syntheses by intramolecular Diels-Alder reactions

GM-12731-1 MC SCHERER, KIRBY V., Jr., Col. Chem., Univ. California, Berkeley, Cal. Bridgehead reactivity in cage hydro and chlorocarbons

GM-12732-1 MC NAGYVARY, JOSEPH, Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn. Some novel syntheses of oligonucleotides

GM-12734-1 TMP COSGROVE, WILLIAM B., Grad. Sch., Univ. Georgia, Athens, Ga. Composition and function of the kinetoplast

GM-12737-1 BBC MOULTON, GRACE C., Sch. Arts, Sci., Florida State Univ., Tallahassee, Fla. ESR analysis of radiation induced free radicals

GM-12743-1 BIO CIRILLO, VINCENT P., Col. Arts., Sci., State Univ. New York, Stony Brook, L.I., N.Y. The role of membrane carriers in sugar transport

GM-12744-1 BBC WILHOIT, RANDOLPH C., Col. Arts, Sci., Texas A.M. Univ., College Station, Texas Thermodynamic properties of biochemical substances

GM-12748-1 SURG RAPAPORT, FELIX T., Sch. Med., New York Univ., New York, N.Y. Severe burns--Mechanisms of cell damage

GM-12755-1 BBC McLAFFERTY, FRED W., Sch. Sci., Purdue Univ., West Lafayette, Ind. Analytical mass spectrometry

GM-12756-1 BIO WEISBERGER, AUSTIN S., Sch. Med., Western Reserve Univ., Cleveland, Ohio Directed protein synthesis

GM-12758-1 MC FRANCK, RICHARD W., Grad. Sch., Fordham Univ., New York, N.Y. A synthesis of 4-oxazolones

GM-12768-1 BIO ZUBAY, GEOFFREY L., Grad. Fac. Pure Sci., Columbia Univ., New York, N.Y. Nucleic acid structures involved in protein synthesis

GM-12771-1 PHY LOEWENSTEIN, WERNER R., Col. Phys., Surg., Columbia Univ., New York, N.Y. Study of cell membranes

GM-12772-1 CB GOLDIE, MARK, Sch. Arts, Sci., Loyola Univ., Chicago, Ill. Development of phenocopies in the chick embryo

GM-12774-1 EP BEER, COLIN G., Col. Arts, Sci., Rutgers Univ., Newark, N.J. Ethological studies of behavior

GM-12777-1 CB TYLER, ALBERT, California Inst. Tech., Pasadena, Cal. Initiation and control of embryonic development

GM-12779-1 GEN LENHOFF, HOWARD M., Sch. Arts, Sci., Univ. Miami, Coral Gables, Fla. Somatic dominance of mutant cells in heterocytes

GM-12783-1 MC HUNT, JOHN B., Grad. Sch. Arts, Sci., Catholic Univ., Washington, D.C. Stereochemical effects in metal ion redox reactions

GM-12786-1 BBC HAM, JOE S., Col. Arts, Sci., Texas AM Univ., College Station, Tex. Thermodynamics of swollen gels

GM-12790-1 PHY SLAYMAN, CLIFFORD L., Jr., Sch. Med., Western Reserve Univ., Cleveland, Ohio Membrane potentials in Neurospora

GM-12791-1 PHY FENN, WALLACE O., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y. Oxygen tension and narcosis

GM-12794-1 BBC HARPST, JERRY A., Sch. Med., Western Reserve Univ., Cleveland, Ohio Light-scattering studies on DNA

GM-12798-1 BBC PIETTE, LAWRENCE H., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii ESR studies of biological free radical mechanisms

GM-12802-1 PC BERNFELD, PETER, Bio-Research Inst., Cambridge, Mass. Water insoluble enzymes

GM-12805-1 PC McCARTY, KENNETH S., Duke Univ. Med. Cr., Durham, N.C. Rapidly labeled RNA associated with nuclear ribosomes

GM-12806-1 BBC GUTTMAN, DAVID E., Sch. Phar., State Univ. New York, Buffalo, N.Y. Molecular interactions of biochemical interest

GM-12807-1 PC WALKER, JAMES B., William Marsh Rice Univ., Houston, Tex. Metabolism of guanidino compounds

Biochim Biophys Acta 89:473, 64. Developmental changes in arginine: X amidinotransferase activity in streptomycin-producing strains of Streptomyces.

Biochim Biophys Acta 93:201, 64. Biosynthesis of streptomycin: Cell-free transamidation in Streptomyces griseus.

Proc 6th Int Congr Biochem 9:735, 64. Assay of metabolite-repressor: Receptor interaction in embryonic tissue.

Proc Soc Exp Biol Med 112:245, 63. Quantitative studies on enzyme repression in the developing chick embryo and newly hatched chick.

GM-12811-1 CB CHANG, ROBERT S., Sch. Pub. Hlth., Harvard Univ., Boston, Mass. Annual Symposium of Tissue Culture Association

GM-12813-1 GEN HARM, WALTER, Southwest Cr. Advanced Studies, Dallas, Tex. UV effects on genetic material of phage and bacteria

GM-12819-1 PC NEURATH, HANS, Sch. Med., Univ. Washington, Seattle, Wash. Biochemical studies on complex molecules

GM-12820-1 PC WILLIAMS, ROBLEY C., Grad. Sch., Univ. California, Berkeley, Cal. Biological phenomena at the molecular level

GM-12822-1 NSS EDEN, MURRAY, Massachusetts Inst. Tech., Cambridge, Mass. American participation in IFMEBE 1965 Tokyo conference

GM-12829-1 SURG DUNPHY, J. ENGLEBERT, Univ. California Med. Cr., San Francisco, Cal. Study of wound healing

GM-12830-1 NTN LOTT, PETER F., Grad. Sch., Univ. Missouri, Kansas City, Mo. The determination of trace amounts of selenium

J Chem Educ 42:A 261, 65. Instrumentation for electrodeposition and coulometry--Part one.

GM-12831-1 PC FLEISCHER, SIDNEY, Grad. Sch., Vanderbilt Univ., Nashville, Tenn. The role of lipids in mitochondrial function

GM-12832-1 MC RITCHIE, CALVIN D., Sch. Arts, Sci., State Univ. New York, Buffalo, N.Y. Proton transfer reactions

GM-12836-1 BIO SRINIVASAN, P.R., Col. Phys., Surg., Columbia Univ., New York, N.Y. Studies of nucleic acid methylating enzymes

GM-12837-1 BIO LIENER, IRVIN E., Grad. Sch., Univ. Minnesota, St. Paul, Minn. Biochemical studies with insoluble protein derivatives

GM-12839-1 MC SOSNOVSKY, GEORGE, Grad. Sch., Illinois Inst. Technology, Chicago, Ill. Peroxides of elements other than carbon

GM-12843-1 MC HUTCHISON, ROBERT B., Col. Liberal Arts, Bowling Green State Univ., Bowling Green, Ohio Investigation of certain cyclic fatty acids

GM-12844-1 MC MARTIN, R. BRUCE, Grad. Sch., Univ. Virginia, Charlottesville, Va. Structure and mechanism studies

GM-12847-1 GMP GREEN, DAVID E., Grad. Sch., Univ. Wisconsin, Madison, Wis. Molecular biology of membrane systems

GM-12848-1 MC HARRIS, THOMAS M., Grad. Sch., Vanderbilt Univ., Nashville, Tenn. Biogenesis of phenolic compounds

GM-12854-1 TOX CORNISH, HERBERT H., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich. Isozymes in toxicology

GM-12855-1 MC STREITWIESER, ANDREW, Jr., Col. Chem., Univ. California, Berkeley, Cal. Acidity of hydrocarbons

GM-12860-1 MC CRANDALL, JACK K., Col. Arts, Sci., Indiana Univ., Bloomington, Ind. Studies on sesquiterpenes

GM-12862-1 BBC EYRING, HENRY, Grad. Sch., Univ. Utah, Salt Lake City, Utah Effects of structure on biological mechanisms

GM-12867-1 SSS LEHMAN, J. STAUFFER, Hahnemann Med. Col., Hosp., Philadelphia, Pa. Diagnostic application of ultrasound

GM-12868-1 SSS GREENBERG, BERNARD G., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C. Development of multivariate statistical analysis

GM-12869-1 SSS CHU, JOHN T., Moore Sch. Elec. Eng., Univ. Pennsylvania, Philadelphia, Pa. Finite and compound statistical decision functions

GM-12870-1 MC SHAFER, PAUL R., Dartmouth Col., Hanover, N.H. N. m. r. for chemical research

GM-12871-1 CSP ONCLEY, J. LAWRENCE, Univ. Michigan, Ann Arbor, Mich. Printing of Biophysical Journal backlog and symposia

GM-12872-1 HUE TERRIS, MILTON, New York Med. Col., New York, N.Y. Epidemiologic study of sarcoidosis in New York City

GM-12873-1 SSS SIEGEL, BENJAMIN M., Col. Eng., Cornell Univ., Ithaca, N.Y. An ultra high resolution electron microscope

GM-12874-1 GM HERSHEY, FALLS B., Michael Reese Hosp., Med. Cr., Chicago, Ill. Effect of heat on the enzymes of skin
Biology of Keratinization. Academic Press, New York, 64. Quantitative histochemistry of human skin.

GM-12876-1 PET GENNARO, JOSEPH F., Jr., Sch. Med., Univ. Louisville, Louisville, Ky. Snakebite treatment evaluated with iodine 131-labeled venom

GM-12877-1 BBC RABINOWITCH, EUGENE, Grad. Col., Univ. Illinois, Urbana, Ill. Course of fluorescence in relation to photosynthesis

GM-12879-1 SURG BENNETT, JAMES E., Indiana Univ. Med. Cr., Indianapolis, Ind. An objective evaluation of the spreading enzymes
J Trauma 5 (No 1):43, Jan 65. An objective evaluation of the spreading enzymes in the treatment of experimentally produced lymphedema.

GM-12880-1 CB GRILLO, RAMON S., Adelphi Univ., Garden City, N.Y. Cell proliferation studies in newt tissues using H3T

GM-12881-1 CB CLELAND, ROBERT E., Sch. Arts, Sci., Univ. Washington, Seattle, Wash. Protein synthesis and auxin-induced cell elongation

GM-12882-1 PC CLARKE, DONALD D., Fordham Univ., Bronx, N.Y. Transglutaminase factor--Purification and properties

GM-12883-1 GMP GRAFF, SAMUEL, Col. Phys., Surg., Columbia Univ., New York, N.Y. Program in cell biology

GM-12884-1 PATH ANIDO, VICENTE, West Virginia Univ. Med. Cr., Morgantown, W. Va. Creatine phosphokinase methods, isozymes, application

GM-12885-5 CB RAPPAPORT, L., Sch. Agr., Univ. California, Davis, Cal. Natural growth substances in arrested growth
Nature 205:414, 65. In vitro conversion of neutral gibberellin-like substances from potato tubers.

GM-12886-1 BBC ZOGRAFI, GEORGE, Col. Pharm., Univ. Michigan, Ann Arbor, Mich. Interfacial properties of phenothiazine derivatives

GM-12888-1 BIO POGELL, BURTON M., Albany Med. Col., Union Univ., Albany, N.Y. Control and regulation of carbohydrate biosynthesis

GM-12889-1 PHY STEPHENS, GROVER C., Univ. California, Irvine, Cal. Uptake of organic compounds by marine invertebrates
Am Zool 4:286, 64. The phylogenetic significance of the distribution of creatine in the invertebrates.

GM-12890-1 MC CURPHEY, THOMAS J., Grad. Sch., St. Louis Univ., St. Louis, Mo. Synthesis of Lycopodium alkaloids

GM-12891-1 BIO WIXOM, ROBERT L., Sch. Med., Univ. Missouri, Columia, Mo. Studies on a dehydrase in valine biosynthesis

GM-12892-1 NSS WILLARD, MARY L., Col. Sci., Pennsylvania State Univ., University Park, Pa. 5th International Symposium on Microchemical Techniques. 1965

GM-12893-1 HED KRUTZSCH, PHILIP H., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa. Mechanisms of asynchrony of male gonads in bats

GM-12894-1 BBC MARTELL, ARTHUR E., Grad. Sch. Chem., Illinois Inst. Technology, Chicago, Ill. Research instrument request--IBM 1620 computer

GM-12896-1 TMP KHALAF, KAMEL T., Col. Arts, Sci., Loyola Univ., New Orleans, La. The Culicoides in Louisiana--Diptera, Ceratopogonidae

GM-12897-1 CY SPOOR, RYK P., Sch. Med., Univ. South Dakota, Vermillion, S.D. Circadian rhythms in isolated animal tissues

GM-12904-1 SURG BLUM, JOHN A., Mt. Sinai Hosp., Chicago, Ill. Bilateral silicone rubber ureteral prosthesis

GM-12916-1 BBC WILSON, WALTER L., Col. Sci. Eng., Oakland Univ., Rochester, Mich. Elecrophoresis in living cells

GM-12922-1 PC GOLDSTEIN, IRWIN J., Sch. Med., Univ. Michigan, Ann Arbor, Mich. Chemical and enzymic studies on polysaccharides

GM-12925-1 BBC FRODYMA, MICHAEL M., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii Chromatographic analytical uses of reflectance

GM-12928-1 BIO SCHWERT, GEORGE W., Univ. Kentucky Med. Cr., Lexington, Ky. Mechanisms of enzyme action

GM-12932-1 PC JUKES, THOMAS H., Univ. California, Berkeley, Cal. M-RNA Binding and peptide synthesis on ribosomes

GM-12933-1 PHY BASKIN, RONALD J., Univ. California, Davis, Cal. Muscle oxygen requirements
Biochim Biophys Acta 88:517, 64. Volume changes in isolated myofibrils.

GM-12934-1 PC HAYASHI, MASAKI, Univ. California, La Jolla, Cal. Synthesis of infectious bacteriophage particles

GM-12944-1 BIO HAMMES, GORDON G., Cornell Univ., Ithaca, N.Y. Studies of enzyme-substrate complexes

GM-12952-1 MC WHEELER, OWEN H., Col. Arts, Sci., Univ. Puerto Rico, Mayaguez, P.R. Synthesis of thiasteroids

GM-12953-16 GEN SRB, ADRIAN M., Sch. Agr., Cornell Univ., Ithaca, N.Y. Nuclear and extranuclear heredity in Neurosporas

GM-12956-1 GEN YOUNG, FRANK E., Scripps Clinic, Res. Fdn., La Jolla, Cal. Modification of cells by nucleic acids

GM-12958-1 MC FRASER, ROBIN T., Grad. Sch., Univ. Kansas, Lawrence, Kans. Electron transfer by chain or charge-transfer ligands

GM-12971-1 BIO BOHAK, ZVI, Weizmann Inst. Sci., Rehvoth, Israel The chemical modification of proteins

GM-12975-1 GEN WOLFE, H. GLENN, Col. Liberal Arts, Sci., Univ. Kansas, Lawrence, Kans. Genetic control of ovulation in mice

GM-12976-1 END FRIEDEN, EDWARD H., Kent State Univ., Kent, Ohio The biochemistry of non-steroid ovarian hormones

GM-12985-1 BBC IBERS, JAMES A., Col. Arts, Sci., Northwestern Univ., Evanston, Ill. Structures of synthetic molecular oxygen carriers

GM-12986-1 BBC COREY, ROBERT B., California Inst. Tech., Pasadena, Cal. Structure and mechanism of chymotrypsin

GM-12999-1 TOX GREENE, FRANK E., Sch. Med., West Virginia Univ., Morgantown, W. Va. Role of epoxidation in the toxicity of heptachlor

GM-13004-1 BIO BROWN, GENE M., Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass. Methylation of nucleic acids

GM-13005-1 SSS LE CAM, LUCIEN, Col. Letters, Sci., Univ. California, Berkeley, Cal. Biology-Health Section, Fifth Berkeley Symposium

GM-13006-1 NSS HABEL, ROBERT E., New York State Vet. Col., Cornell Univ., Ithaca, N.Y. Veterinary anatomical nomenclature

GM-13016-1 PET LEVINE, ROBERT J., Sch. Med., Yale Univ., New Haven, Conn. Metabolism of histamine--Pharmacologic correlations

GM-13018-1 PC HOLLEY, ROBERT W., New York State Col. Agr., Cornell Univ., Ithaca, N.Y. Structures of transfer RNA's

GM-13029-1 PET ANDERSEN, NIKAAN B., Col. Med., Univ. Florida, Gainesville, Fla. Anesthetics on NA and K transport in the toad bladder

GM-13037-1 BIO MEHLER, ALAN H., Sch. Med., Marquette Univ., Milwaukee, Wis. Structure and biological properties of sRNA

GM-13048-1 CB GETZ, GODFREY S., Sch. Med., Univ. Chicago, Chicago, Ill. Mitochondrial membrane metabolism in health and disease

GM-13064-1 BIO HANSON, RICHARD S., Col. Med., Univ. Illinois, Chicago, Ill. Regulation of the TCA cycle in bacteria

GM-13072-1 CB WESTON, JAMES A., Col. Arts, Sci., Western Reserve Univ., Cleveland, Ohio Control of cell migration in development

GM-13074-1 TMP McDANIEL, IVAN N., Col. Life Sci., Agr., Univ. Maine, Orono, Me. Biology of floodwater Culicidae and Simulium

GM-13080-1 BIO CONNELLY, JERALD L., Sch. Med., Univ. North Dakota, Grand Forks, N.D. Mitochondrial energy-requiring mechanisms

GM-13100-1 MC KIER, LEMONT B., Col. Pharm., Ohio State Univ., Columbus, Ohio Medicinal chemical studies of mesoionic compounds

GM-13113-1 SSS FOODEN, JACK, Chicago Natural History Museum, Chicago, Ill. A taxonomic revision of the macaques

GM-13117-1 MC NELSON, DAVID A., Col. Arts, Sci., Univ. Wyoming, Laramie, Wyo. Role of nitrogen in photochemical reactions

GM-13138-1 SSS GANI, JOSEPH M., Col. Natural Sci., Michigan State Univ., East Lansing, Mich. Mathematical models in biology

GM-13141-1 BS PAUL, BENJAMIN D., Sch. Arts, Sci., Stanford Univ., Stanford, Cal. Modernization processes in the rural community

GM-13155-1 BIO ROLFE, RONALD E., Children's Cancer Res. Fdn., Inc., Boston, Mass. The physical state of bacterial DNA

GM-13163-1 TMP JENSEN, THORKIL, Univ. Kansas Med. Cr., Kansas City, Kans. Biochemistry of excystation in Acanthamoeba spp.

GM-13182-1 HED GAMBAL, DAVID, Sch. Med., Creighton Univ., Omaha, Nebr. Hormonal control of testicular DNA, RNA and lipides

GM-13183-1 MC COHEN, SAUL G., Sch. Sci., Brandeis Univ., Waltham, Mass. Research using NMR spectrometry

GM-13184-1 MC DOMINGUEZ, XORGE A., Inst. Tecnologico de Monterrey, Monterrey, N.L., Mexico A phytochemical and pharmacological survey of cactaceae

GM-13190-1 BBC ONSAGER, LARS, Grad. Sch., Yale Univ., New Haven, Conn. Theory of polar liquids and solutions

GM-13191-1 BBC FEHER, GEORGE, Univ. California, La Jolla, Cal. ESR experiments on model photosynthetic systems

GM-13197-1 TMP USINGER, ROBERT L., Col. Agr., Univ. California, Berkeley, Cal. Chromosome studies in the Cimicidae

GM-13199-1 GEN GILLHAM, NICHOLAS W., Fac. Arts, Sci., Harvard Univ., Cambridge, Mass. Uniparental inheritance in Chlamydomonas reinhardi

GM-13200-1 BIO DE MOSS, JOHN A., Univ. California, La Jolla, Cal. Studies on control mechanisms in bacterial physiology

GM-13203-1 BBC NIELSEN, SIGURD O., Danish Atomic Energy Comm. Res. Establishment, Riso, Denmark Protein hydrogen exchange

GM-13205-1 BBC WEISSMAN, SAMUEL I., Sch. Arts, Sci., Washington Univ., St. Louis, Mo. Magnetic resonance in biochemical applications

GM-13212-1 BBC CHAN, SUNNEY I., California Inst. Tech., Pasadena, Cal. Deuteron relaxation studies of the hydrogen-bond

GM-13222-1 GEN BUETTNER-JANUSCH, JOHN, Duke University, Durham, N.C. Genetic studies on the blood of primates

GM-13226-1 HED AUSTIN, COLIN R., Delta Regional Primate Res. Cr., Covington, La. Fertilization in vitro and culture of primate eggs

GM-13227-1 SSS BRAVERMAN, MAXWELL H., Carnegie Inst. Tech., Pittsburgh, Pa. Computer simulation of hydroid colonies

GM-13230-1 SURG RHOADS, JONATHAN E., International Surg. Soc. Comm. for Philadelphia Congress, Philadelphia, Pa. XXI Congress of the International Surgical Society

GM-13231-1 SSS HOLMES, JOSEPH H., Univ. Colorado Med. Cr., Denver, Colo. Conference on diagnostic medical ultrasound

GM-13236-1 BIO LUBIN, MARTIN, Sch. Med., Harvard Univ., Boston, Mass. Biochemical studies on subcellular systems

GM-13238-1 CB DAVIS, BERNARD D., Sch. Med., Harvard Univ., Boston, Mass. The chemical specificity of cell surfaces

GM-13244-1 GMP GLASER, DONALD A., Univ. California, Berkeley, Cal. Scanner-computer investigations of biological systems

GM-13245-1 MC WORTHEN, LEONARD R., Col. Pharm., Univ. Rhode Island, Kingston, R.I. Symposium on chemotaxonomy

GM-13246-8 MC LEETE, EDWARD, Grad. Sch., Univ. Minnesota, Minneapolis, Minn. Biogenesis of natural products of medicinal interest

GM-13253-1 BBC PORTER, RICHARD N., Grad. Sch., Univ. Arkansas, Fayetteville, Ark. Theoretical studies of reactive molecular collisions

GM-13259-1 CB ROTHSCHILD, JOEL A., Col. Phys. Surg., Columbia Univ., New York, N.Y. Isolation of cytoplasmic membranes

GM-13436-1 HUE SHEPS, MINDELL C., Columbia Univ., New York, N.Y. Human reproduction studied as a stochastic process

GM-13513-1 BM DeLACY, PHILLIP H., Col. Arts, Sci., Cornell Univ., Ithaca, N.Y. Edition and translation of Galen, De Placitis

GM-13544-1 GEN GOLD, MARVIN, Albert Einstein Col. Med., Bronx, N.Y. Role of DNA methylation in genetic phenomena

GM-13545-1 BBC BALDESCHWIELER, JOHN D., Sch. Humanities, Sci., Stanford Univ., Stanford, Cal. Electric field effects in nuclear quadrupole resonance

GM-13552-1 PC SAGER, WILLIAM F., Col. Liberal Arts, Sci., Univ. Illinois, Chicago, Ill. Application of hammett equation to enzymatic catalysis

GM-13555-1 SSS HARTMAN, RICHARD E., New York Med. Col., New York, N.Y. High resolution biological electron microscopy

GM-13560-1 CB GROSS, PAUL R., Massachusetts Inst. Tech., Cambridge, Mass. Ultrastructure in dividing and differentiating cells

GM-13561-1 GEN CHMURA, NORMAN W., Chatham Col., Pittsburgh, Pa. Ultraviolet sensitivity and resistance in bacteria

GM-13572-1 MC FERRIS, JAMES P., Salk Inst. Biological Studies, San Diego, Cal. The chemistry of amine oxides

GM-13599-1 CB MUNGER, BRYCE L., Sch. Med., Univ. Chicago, Chicago, Ill. Histophysiology of secretion

GM-13605-1 COM STAHL, WALTER R., Oregon Regional Primate Res. Cr., Beaverton, Ore. Simulation techniques in mathematical biology

GM-13624-1 CB CRONSHAW, JAMES, Col. Letters, Sci., Univ. California, Santa Barbara, Cal. Fine structural aspects of growth in plant cells

GM-13655-1 SURG KUKRAL, JOHN C., Sch. Med., Univ. Illinois, Chicago, Ill. Plasma protein metabolism in burned patients

Contr. GM-64-44 Natl. Acad. Sci., Washington, D.C. Participation 23rd congress of physiological sciences

Contr. GM-64-44 Natl. Acad. Sci., Washington, D.C. Continue participation in medical science conferences

Contr. GM-64-44 National Academy Science, Washington, D.C. Continue study on mortality of radiologists

Contr. GM-64-44 T.O.22 National Academy Science, Washington, D.C. Administer and plan activities for a biological program

Contr. GM-64-71 Field Emission, McMinnville, Ore. Research on field ion microscopy

Contr. GM-65-997 Materials Res. Corp., Orangeburg, N.Y. Feasibility study of the application of field ion microscopy

Contr. GM-65-1057 Research Triangle, Durham, N.C. Investigations in toxicology and drug metabolism

Contr. GM-65-1061 Stanford Res. Inst., Menlo Park, Cal. Development of methods to minimize the undesirable effects of drugs

Contr. GM-65-1063 Massachusetts General Hosp., Boston, Mass. Impact of sciences on training of medical scientists

Contr. GM-65-1066 Burrough Wellcome, Tuckahoe, N.Y. Research studies of biomedical mechanisms of drug toxicity

Contr. GM-65-1069 — Parke, Davis Co., Detroit, Mich. Research of chemical intoxication and drug metabolism

Publications received from terminated GM projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

CHILD HEALTH AND HUMAN DEVELOPMENT

HD-00007-9 CB — COLWIN, ARTHUR L., Sch. Liberal Arts, Queens Col., Flushing, N.Y. Fertilization studies of sperm-egg association

HD-00008-2 NEU — LAIRY, GABRIELLE, Hosp. Henri Rousselle Paris, France Electroclinical study of visuo-motor dysfunctions

HD-00009-2 HED — HEGGENESS, FRANKLIN W., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y. Neonatal nutrition and maturation of the rat

HD-00010-2 PC — CARSTEN, MARY E., Cr. Hlth. Sci., Univ. California, Los Angeles, Cal. Chemistry and function of smooth muscle uterus proteins
Biochim Biophys Acta 90:534, 64. Actin: A comparative study.
J Gen Physiol 48:183, 64. The accumulation of calcium ions by sarcotubular vesicles.

HD-00011-2 CB — DAVENPORT, RICHARD, Grad. Sch., Univ. Illinois, Urbana, Ill. A study of cytoplasmic basic proteins

HD-00013-2 HED — ELEFTHERIOU, BASIL E., Sch. Arts, Sci., Kansas State Univ., Manhattan, Kans. Environmental stimuli and hormones during implantation

HD-00017-2 HUE — WINKELSTEIN, WARREN, Jr., State Univ. New York, Buffalo, N.Y. Coronary artery disease risk factors and pregnancy loss

HD-00018-1 HED — WYNN, RALPH M., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y. Ultrastructure of the placental junctional zone
Am J Obstet Gynec 90:690, 64. Ultrastructure of the deciduotrophoblastic junction of the guinea pig.
Am J Obstet Gynec 90:758, 64. Comparative morphogenesis and vascular relationships of the villous hemochorial placenta.
Am J Obstet Gynec 91:533, 65. Comparative electron microscopy of the hemochorial placenta.
Fertil Steril 16:16, 65. Electron microscopy of the developing decidua.
Obstet Gynec 25:425, 65. Origin, cytochemistry and ultrastructure of the Hofbauer cell.

HD-00027-2 END — WHITMORE, WILLET F., Jr., Sloan-Kettering Inst. Cancer Res., New York, N.Y. The role of zinc in the mammalian reproductive tract

HD-00028-2 END — ROTHCHILD, IRVING, Sch. Med., Western Reserve Univ., Cleveland, Ohio A study of ovarian follicular growth and atresia

HD-00031-2 AI — WILLSON, JOHN T., Sch. Med., Univ. Colorado, Denver, Colo. Localization of sperm antigens and antibodies

HD-00033-2 GEN — ROSENBERG, HARVEY S., Texas Children's Hosp., Houston, Tex. Mongolism with G/G translocation

HD-00036-2 GEN — EATON, GORDON J., Barrington Col., Barrington, R.I. Implantation and lethality in yellow mice

HD-00038-2 CB — CASTON, J. DOUGLAS, Sch. Med., Western Reserve Univ., Cleveland, Ohio Protein synthesis during embryogenesis

HD-00039-2 MET — FLIPSE, ROBERT J., Sch. Agr., Pennsylvania State Univ., University Park, Pa. Amino acid metabolism by spermatozoa
J Dairy Sci 47:686, 64. Metabolic fate of glutamic acid-C^{14} in bovine spermatozoa.
J Dairy Sci 48:805, 65. Aspartate-C^{14} metabolism by bovine spermatozoa.
J Dairy Sci 48:806, 65. Glycine transport by bovine spermatozoa.

HD-00040-2 PATH — MABRY, C. CHARLTON, Univ. Kentucky Med. Cr., Lexington, Ky. Development of high voltage electrophoresis uses

HD-00041-7 PATH — GETTY, ROBERT, Col. Vet. Med., Iowa State Univ., Ames, Iowa Gerontological studies in the dog and hog

HD-00042-6 PATH — BRANDES, DAVID, Baltimore City Hosp., Baltimore, Md. Study of senescence at the cell level
Acta Cytol 8, (No 6):416, 64. Lysosomal enzymes in the rat ovary and endometrium during the estrous cycle.
Exp Cell Res 35:194, 64. Role of golgi apparatus in the formation of cytolysomes.
Exp Molec Path 3:583, 64. Role of lysosomes in cellular lytic process. I Effect of carbon starvation in Euglena opocilis.
Lab Invest 13, (No 12):1541, 64. Ultrastructure of the human prostate: Normal and neoplastic.

HD-00045-2 HUE — LEDERBERG, JOSHUA, Sch. Med., Stanford Univ., Palo Alto, Cal. Kindred patterns--Mentally retarded, control

HD-00047-2 CB — COLEMAN, JOHN R., Brown Univ., Providence, R.I. Protein biosynthesis during myogenesis in vitro

HD-00050-2 HEM — CLAYTON, EVERETT M., Jr., Nashville Gen. Hosp., Nashville, Tenn. Detection of fetal red cells in maternal circulation

HD-00052-2 PC — WARREN, LEONARD, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa. Metabolism and function of protein-bound carbohydrates

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HD-01481-1 END HATHAWAY, RALPH R., Col. Letters, Sci., Univ. Utah, Salt Lake City, Utah Steroid metabolism in seman

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HD-01487-1 GEN LINDER, DAVID, Children's Hosp., San Francisco, Cal. In-vivo studies of glucose 6 phosphate dehydrogenase

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HD-01499-4 CB COWDEN, RONALD R., Univ. Florida, Gainesville, Fla. Cytochemistry of growth and development

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HD-01520-1 PET O'STEEN, W. KEITH, Univ. Texas Med. Br., Galveston, Tex. Influence of amines on reproductive cycles of rats

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HD-01522-1 TMP LANG, CALVIN A., Sch. Med., Univ. Louisville, Louisville, Ky. Metals and nucleic acids in mosquito growth and aging

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HD-01536-1 BM MEDEARIS, DONALD N., Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md. Pathogenesis of infection in immature animals

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HD-01562-1 END YOUSEM, HERBERT, Sinai Hosp., Baltimore, Md. Plasma estriol determinations in dysmaturity

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HD-01622-1 HDP BOGOCH, SAMUEL, Fdn. for Res. on Nervous System, Boston, Mass. Studies of child development--Normal and retarded

HD-01623-1 NSS SINEX, F. MAROTT, Sch. Med., Boston Univ., Boston, Mass. A conference on genetic mechanisms in aging

HD-01625-1 MH NEUBAUER, PETER B., Jewish Board of Guardians, New York, N.Y. A longitudinal study of monozygotic twins reared apart

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HD-01892-1 AI MAY, CHARLES D., New York Univ. Med. Cr., New York, N.Y. Biochemical aspects of allergic disorders

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Contr. HD-65-21 Gallaudet Col., Washington, D.C. Provide for indexing of speech and hearing literature

Contr. HD-65-26 Gerontological Soc., St. Louis, Mo. Pub. of current publications in gerontology and geriatrics

Contr. HD-65-56 N.Y. Academy Sciences, New York, N.Y. Conference on flexibility in memory mechanics

Contr. HD-65-59 Woods Schools, Langhorne, Pa. Conf. on cognitive processes and models of intell. dev. in retardation

Contr. HD-65-71 Boston Lying-In Hosp., Boston, Mass. Conference research on diabetes mellitus as complication of pregnancy

Contr. HD-65-566 Nepera Chemical Co., Harriman, N.Y. Production of hormone relaxin

Contr. HD-65-580 Excerpta Medica Fdn., Amsterdam, Netherlands Translate and publish gerontology and geriatrics abstracts

Contr. HD-65-581 Salk Institute, La Jolla, Cal. Conduct 3 seminars--Symposium on biology of aging

Contr. HD-65-582 — Univ. Washington, Seattle, Wash. Report on content of proposed handbook on human development

Contr. HD-65-586 — Merrill-Palmer Inst., Detroit, Mich. Conduct conference on research and teaching of infant development

Contr. HD-65-613 — Airlie Fdn., Warrenton, Va. Provide a 15 minute 16 MM film on mental retardation

Contr. HD-65-637 — John Hopkins Univ., Baltimore, Md. Development of vocalization in infancy and early childhood

Contr. HD-65-640 — Pan American Hlth. Organization, Washington, D.C. Nutrition survey among Indians in Guatemalan highlands

Contr. HD-65-64- — Gallaudet College, Washington, D.C. Provide indexing of speech and hearing literature for 1960-1964

Contr. HD-65-646 — Gerontological Soc., St. Louis, Mo. Develop a directory of international resources in gerontology

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Contr. HD-65-985 — Mental Hlth. Materials, New York, N.Y. Prepare guide on films on perinatal biology

Contr. HD-65-989 — Wiche, Boulder, Colo. Mental retardation research in institutions in Western United States

Contr. HD-65-996 — Bank St. Col. of Education, New York, N.Y. Study of psychologists and teacher roles in child development

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Contr. HD-65-1009 — Harvard Col., Cambridge, Mass. Study of cognitive development in the human infant

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HE-00022-19 HEM — MOORE, CARL V., Sch. Med., Washington Univ., St. Louis, Mo. Erythropoiesis and iron metabolism

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HE-00035-18 CV — LEITER, LOUIS, Montefiore Hosp., N.Y.C. Electrolytes and fluid in normal and disease states

HE-00040-18 PHY — WALTON, ROBERT P., Med. Col. South Carolina, Charleston, S.C. Measurement of changes in heart contractile force

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HE-00052-18 NTN — KENDALL, FORREST E., Goldwater Mem. Hosp., New York, N.Y. Relation of lipid metabolism to atherosclerosis

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HE-00054-18 CV — DRURY, DOUGLAS R., Sch. Med., Univ. So. California, Los Angeles, Cal. Mechanisms causing hypertension and heart failure

HE-00082-16 PHY — ROOS, ALBERT, Barnes Hospital, St. Louis, Missouri Clinical and experimental research in respiration

HE-00109-16 CV — CHAIKOFF, ISRAEL L., Univ. California, Berkeley, Cal. Chemical studies in experimental arteriosclerosis

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HE-09747-1 CV HANENSON, IRWIN B., Col. Med., Univ. Cincinnati, Cincinnati, Ohio Sodium and water excretion in arterial hypertension

HE-09750-1 SRC SMITH, WILLIAM M., U.S. Pub. Hlth. Service Hosp., San Francisco, Cal. Cooperative study of renal disease and hypertension

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HE-09765-1 CV MUIRHEAD, E. ERIC, Univ. Tennessee, Memphis, Tenn. Renal transplants and extracts in renoprival hypertension

HE-09766-1 NSS SHERRY, SOL, Sch. Med., Washington Univ., St. Louis, Mo. Planning of coronary thrombosis clinical study

HE-09779-1 PATH WORTHEN, HOWARD G., Southwestern Med. Sch., Univ. Texas, Dallas, Tex. Studies of renal tubular enzymes

HE-09814-1 HEP FRANCIS, THOMAS, Jr., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich. Center for research in diseases of the heart

HE-09821-1 NSS BROWN, IVAN W., Jr., Duke Univ. Med. Cr., Durham, N.C. Conference on hyperbaric medicine

HE-09884-1 HEP WARREN, JAMES V., Col. Med., Ohio State Univ., Columbus, Ohio Biology of the heart

HE-09992-1 RAD OVERMAN, RICHARD R., Univ. Tennessee Med. Units, Memphis, Tenn. Cardiovascular physiology after irradiation

HE-09993-1 RAD JOHNSON, PHILIP M., Presbyterian Hosp., New York, N.Y. Radiation and pulmonary blood perfusion

HE-09995-1 HED QUILLIGAN, EDWARD J., Harbor Gen. Hosp., Torrance, Cal. Cardiovascular studies in the fetus

HE-10020-1 NSS SHERRY, SOL, Sch. Med., Washington Univ., St. Louis, Mo. Studies with urokinase

HE-10034-1 BBC LIEBERSTEIN, H. MELVIN, Col. Arts, Sci., Indiana Univ., Bloomington, Ind. Arteriosclerosis and body regulatory systems

HE-10036-1 AI LALEZARI, PARVIZ, Montefiore Hosp., New York, N.Y. Human leukocyte antigens

HE-10037-1 HEM ALLEN, DONALD M., Boston Floating Hosp., Boston, Mass. Hypertransfusion and iron chelation in thalassemia

HE-10038-1 HEM THOMPSON, ROBERT B., Univ. Mississippi Med. Cr., Jackson, Miss. Genetic and physiologic evolution of animal hemoglobins

HE-10039-1 HEM KOSOWER, NECHAMA S., Albert Einstein Col. Med., Bronx, N.Y. Erythrocyte lysis and the fava bean agent

HE-10040-1 HEM GORMAN, JOHN G., Columbia Presbyterian Med. Cr., New York, N.Y. Genetic aspects of tropical hypergammaglobulinemia

HE-10041-1 HEM JAFFE, ERNST R., Albert Einstein Col. Med., Bronx, N.Y. Methemoglobin and pyridine nucleotide metabolism

HE-10042-1 END PORTER, GEORGE A., Univ. Oregon Med. Sch., Portland, Ore. Steroidal regulation of active sodium transport

HE-10043-1 GM HUTCHING, JOHN J., Univ. California Med. Cr., San Francisco, Cal. Maleic acid induced renal tubular dysfunction

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HE-10045-1 HEM CHERNOFF, AMOZ I., Univ. Tennessee Mem. Res. Cr., Knoxville, Tenn. Biochemical and clinical studies of thalassemia

HE-10046-1 HEM SCHWARTZ, SAMUEL, University Hosps., Minneapolis, Minn. Non-hemoglobin heme precursors of bile pigments

HE-10047-1 AI HALLER, J. ALEX, Jr., Johns Hopkins Hosp., Baltimore, Md. Pathogenesis of runt disease

HE-10048-1 PATH HORN, ROBERT G., Sch. Med., Vanderbilt Univ., Nashville, Tenn. Leukocyte cytology and function

HE-10049-1 AI MORSE, JANE H., Col. Phys., Surg., Columbia Univ., New York, N.Y. Role of complement in disease

HE-10050-1 HEM DALLMAN, PETER R., Sch. Med., Stanford Univ., Palo Alto, Cal. Developmental influences on tissue hemeprotein

HE-10051-1 HEM SMITH, JOSEPH E., City Hope Med. Cr., Duarte, Cal. Comparative erythrocyte metabolism

HE-10052-1 SURG PRENTISS, ROBERT J., San Diego County Gen. Hosp., San Diego, Cal. New circuitry excluding nerve stimulation in surgery

HE-10053-1 HEM JACOB, HARRY S., St. Elizabeth's Hosp., Boston, Mass. Erythrocyte membrane metabolism in hemolytic process

HE-10054-1 PET ARONSON, ARTHUR L., New York State Vet. Col., Cornell Univ., Ithaca, N.Y. Toxicity studies with a chelating agent CaEDTA

HE-10061-1 PHY ROBIN, EUGENE D., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa. Respiratory function of aquatic mammals

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HE-10077-1 PATH KURNICK, NATHANIEL B., California Col. Med., Long Beach, Cal. The mechanism of renal hypertrophy

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HE-10080-1 AI GLENCHUR, HARRY, City Hope Med. Cr., Duarte, Cal. Nephritogenic streptococci and renal glomerulus

HE-10098-1 HEP STARE, FREDRICK J., Sch. Pub. Hlth., Harvard Univ., Boston, Mass. Primates in cardiovascular research

HE-10117-1 SRC DUSTAN, HARRIET P., The Cleveland Clinic Fdn., Cleveland, Ohio Advisory Renovascular Hypertension Board

Contr. HE-63-620 Puerto Rico Univ., San Juan, P.R. Study on statistics of diagnostic class of cause of death

Contr. HE-63-1139 National Academy Science, Washington, D.C. Coronary heart disease

Contr. HE-65-38 Hawaii Univ., Honolulu, Hawaii Collect and analyze demographic data related to Hawaii heart study

Contr. HE-65-1003 Kuakini Hosp., Honolulu, Hawaii Data collection in area of clinical pathology and morbid anatomy

Contr. HE-65-1058 Stanford Res. Inst., Menlo Park, Cal. Artificial heart research and development program

Contr. HE-65-1059 General Dynamics Corp., San Diego, Cal. Study of artificial heart research and development program

Contr. HE-65-1060 Westinghouse, Washington, D.C. Artificial heart research and development program

Publications received from terminated HE projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

HOSPITAL AND MEDICAL FACILITIES

HM-00053-7 HSR THOMPSON, JOHN D., Sch. Med., Yale Univ., New Haven, Conn. Hospital facilities utilization study

HM-00074-6 HSR WILLIAMS, T. FRANKLIN, Sch. Med., Univ. North Carolina, Chapel Hill, N.C. Process of patient referral to a university clinic

HM-00123-1 HSR GROSS, LLEWELLYN Z., Grad. Sch., State Univ. New York, Albany, N.Y. Social causes of labor turnover in modern hospitals

HM-00188-3 HSR MANN, FLOYD C., Univ. Michigan, Ann Arbor, Mich. Coordination and patient care in voluntary hospitals

HM-00190-3 HSR INGBAR, MARY L. Grad. Sch., Harvard Univ., Cambridge, Mass. Economics and the administrations of medical care programs
Proc Massachusetts Pub Health Assn 23, (No 1): 18, Jan 63. Analysis of costs: Methodology for Massachusetts hospitals.

HM-00194-1 HSR DROSSNESS, DANIEL L., California State Dept. Hlth., Berkeley, Cal. Hospital utilization

HM-00197-2 HSR HANSEN, GARY, Mt. Angel Col., Mt. Angel, Oregon Geriatric research and curriculum planning

HM-00195-2 HSR DONALDSON, BEATRICE, Univ. Wisconsin, Madison, Wis. Effective utilization of hospital dietary personnel

HM-00208-1 HSR SMITH, LESTER E., Kansas Health Facilities Info. Servi ces, Inc., Topeka, Kans. Demonstration of state-wide organization for health facilities planning

HM-00216-3 HSR BALINTFY, JOSEPH L., Tulane Univ., New Orleans, La. Linear programming of menu planning in hospitals
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Hosp Topics, Jun 64. Computer wites menus.

HM-00224-2 HSR DAVIS, LOUIS E., Col. Eng., Univ. California, Berkeley, Cal. Hospital elective admission scheduling decision rules
Univ Calif, Berkeley, Hum Factors Techn Res Group, Rep No HFT-65-4(M), 65. Hospital admission scheduling control.
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HM-00235-2 HMF KREIDBERG, MARSHALL B., Boston Floating Hosp., Boston, Mass. Design and construction of a new pediatric hospital

HM-00239-1 HMF PUGH, DELBERT L., Columbus Hosp. Federation, Columbus, Ohio Service demonstration project--To develop a prototype regional hospital planning council

HM-00244-1 HSR PENDALL, RUDOLF J., Hosp. Council Maryland, Inc., Baltimore, Md. Improving hospital personnel practices regionally

HM-00255-2 HMF LONG, SAMUEL S., Hosp. Planning Assn., Toledo, Ohio Service demonstration hospital planning

HM-00259-2 HMF STONE, KATHRYN H., Washington Hlth. Fac. Coun., Washington, D.C. Health facilities plan for the Washington Metropolitan Area

HM-00260-1 HMF GRACE, WILLIAM J., St. Vincent's Hosp., New York, N.Y. The St. Vincent's Hospital Medical Care Demonstration

HM-00264-2 HMF KUMAGAI, TSUTOMU, St. Paul Hosp. Planning Council, St. Paul, Minn. St. Paul area health facilities coordination planning

HM-00266-1 HMF PARKER, RALPH C., Jr., Rochester Hosp. Council, Rochester, N.Y. Service demonstration project in areawide planning

HM-00270-1 HMF HOPPER, SAMUEL H., Sch. Med., Indiana Univ., Bloomington, Ind. Reduction of operative infection

HM-00278-1 HSR RICE, DOYLE K., Washington Univ., St. Louis, Mo. Organization of long-term care in general hospitals

HM-00279-1 HSR FLAGLE, CHARLES D., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md. Operations research in the health services

HM-00282-1 HMF YOUNG, LEROY K., Sch. Business, Pub. Admin., Cornell Univ., Ithaca, New York Com-puters models for hospital administration

HM-00290-1 HMF MARTIN, J. WILLIAM, Charleston Studies Fdn., Charleston, W. Va. Grant to establish area-wide planning agency

HM-00294-2 HMF ENGEL, WILLIAM, Hospital Review and Planning Council Western New York, Inc., Buffalo, N.Y. Health facility planning for Western New York

HM-00296-1 HMF JACO, E. GARTLY, Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn. Value of demographic and social data to hospitals

HM-00298-1 HSR ANDERSON, ODIN W., Grad. Sch., Univ. Chicago, Chicago, Illinois US survey-use of medical care-3-country comparison

HM-00299-1 HMF MOORE, CHARLES W., Col. Eng., Univ. California, Berkeley, Cal. The formulation of design criteria for hospital architecture

HM-00300-1 COM LAMSON, BALDWIN G., Sch. Med., Univ. California, Los Angeles, Cal. Data processing in a medical center

HM-00302-1 HSR ROSENTHAL, GERALD D., Sch. Public Hlth., Harvard Univ., Boston, Mass. The demand for medical care facilities

HM-00303-1 HMF STEIGER, WILLIAM A., Temple Univ. Med. Cr., Philadelphia, Pa. Experimental center for community health (planning)

HM-00304-1 HMF PENCHANSKY, ROY, Sch. Pub. Hlth., Harvard Univ., Boston, Mass. Manpower and industrial relations in hospitals

HM-00307-1 COM LAKE, RAYMOND B., Jr., Memorial Hosp., Long Beach, Cal. Data automation research and experimentation

HM-00308-1 HMF CADMUS, ROBERT R., Sch. Med., Univ. North Carolina, Chapel Hill, N.C. A university's responsibility to community hospitals

HM-00309-1 HMF CHERKASKY, MARTIN, Montefiore Hosp., Bronx, N.Y. Studies for a surgical center in a general hospital

HM-00312-1 HMF TUNKS, OMAR A., Hlth. Fac. Planning Council, Honolulu, Hawaii Hawaii health facilities demonstration project

HM-00315-1 HMF SAATHOFF, DONALD E., Hospital Planning Council, Portland, Ore. Hospital Planning Council for Metropolitan Portland Area

HM-00316-1 HMF WELLS, WILSON, Care-Coordinating Council, Birmingham, Ala. Areawide planning for Birmingham and vicinity

HM-00322-1 HSR PETERSON, OSLER L., Sch. Med., Harvard Univ., Boston, Mass. Applica-tion of a method for evaluating the quality of surgical care

HM-00323-2 HMF HELLER, WILLIAM M., Univ. Arkansas Med. Cr., Little Rock, Ark. Proposed intra-hospital drug distribution system

HM-00326-1 HSR BAKER, ROY E., Grad. Sch., Cornell Univ., Ithaca, N.Y. Use of variable cost budgets in managerial control

HM-00328-2 HMF TESTER, WILLIAM W., Col. Pharm., State Univ. Iowa, Iowa City, Iowa Study of patient care involving a unit dose system
Am J Hosp Pharm 21:351, Aug 64. Decentralized pharmacy operations utilizing the unit dose concept.

HM-00336-1 HMF THOMPSON, GUY, Community Chest and Council, Cincinnati, Ohio Health facilities planning for the Cincinnati area

HM-00341-2 HMF CATTANEO, EVERETT G., Hosp. Planning Assn. So. California, Los Angeles, Cal. Demonstrate operation of regional planning agency

HM-00348-2 HSR McCORKLE, LOIS P., University Hospitals, Cleveland, Ohio Use of in-patient facilities of a university hospital

HM-00349-1 HSR SHEATSLEY, PAUL B., 55 Fifth Avenue, New York, New York Analysis of hospital utilization survey

HM-00351-1 HMF PRICE, DEREK W., Hosp., Hlth. Facility Planning Comm. of San Diego Co., San Diego, Cal. Demonstration project of a regional planning agency

HM-00352-2 HMF FLYNN, ROBERT L., Hlth. Facilities Planning, Development Bd., Inc., Seattle, Wash. Planning for Seattle area health facilities

HM-00354-2 HSR GOERKE, LENOR S., Sch. Pub. Hlth., Univ. California, Los Angeles, Cal. Evalu-ating quality of care by scientific audit

HM-00355-1 HSR HILL, LAWRENCE A., Grad. Sch. Business Admin., Univ. Michigan, Ann Arbor, Mich. Costs of educational programs in hospitals

HM-00365-2 COM SPENCER, WILLIAM A., Texas Inst. Rehabilitation, Res., Houston, Texas System for processing clinical research data

HM-00369-1 HMF GOTTLIEB, SYMOND R., Hospital Area Planning Committee, Milwaukee, Wis. Health facilities planning for Milwaukee area

HM-00371-2 HMF DORNBLASER, BRIGHT M., Franklin Co. Pub. Hosp., Greenfield, Mass. Geriatric rehabilitation in a community hospital

HM-00374-2 COM LINDBERG, DONALD A.B., Sch. Med., Univ. Missouri, Columbia, Mo. Hospital laboratory data transmission and retrieval

HM-00376-1 COM DIETIKER, K. EDWARD, Children's Asthma Res. Inst. and Hosp., Denver, Colo. Feasibility study of an automated coded data system

HM-00378-2 HSR MULLER, CHARLOTTE F., Fac. Med., Columbia Univ., New York, N.Y. Drug standards and prescribing in New York hospitals

HM-00384-1 HMF JACO, E. GARTLY, Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn. A demonstration of reducing hospital costs by sharing services

HM-00385-2 HMF BREDESON, BRUCE E., Arrowhead Region Planning Council for Hlth. Facilities, Services, Duluth, Minn. Arrowhead Region Planning Council for Health Facilities and Services

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HM-00390-1 HMF HUFNAGEL, CHARLES A., Georgetown Univ. Med. Cr., Washington, D.C. Research to improve the quality and efficiency of medical care

HM-00393-1 COM LEVY, RICHARD P., University Hosp., Cleveland, Ohio Use of computers for retrieval of hospital records

HM-00394-1 COM SELIGSON, DAVID, Sch. Med., Yale Univ. New Haven, Conn. Study of data systems for clinical pathology

HM-00397-1 HMF DONAHER, J.C., Hosp. Planning Council of Greater Miami Valley, Dayton, Ohio Areawide Hospital Planning Council

HM-00399-1 HMF JOHNSTON, J. HAROLD, Hlth. Facilities Planning Council for N.J., Princeton, N.J. Implementation of a Planning Council for New Jersey

HM-00406-1 HMF BARTSCHT, KARL G., Univ. Michigan, Ann Arbor, Mich. Demonstration and evaluation of hospital staffing methods

HM-00407-1 COM WALKER, JAMES E.C., Peter Bent Brigham Hosp., Boston, Mass. Electronic data processing of ambulatory services of teaching hospitals

HM-00415-1 HSR WATERSTRAAT, MARY J., American Assn. Med. Record Librarians, Chicago, Ill. Hospital and clinic statistical terms and formulas

HM-00420-1 HSR BURNETTE, CHARLES H., Grad. Sch. Fine Arts, Univ. Pennsylvania, Philadelphia, Pa. An information system for hospital planning

HM-00430-1 HSR FERRELL, EDWARD S., SR., Univ. Alabama Med. Cr., Birmingham, Ala. Instruments for predicting absenteeism and turnover

HM-00431-1 HSR VALINSKY, DAVID, Maimonides Hosp., Brooklyn, N.Y. Optimum utilization of hospital ancillary services

HM-00436-1 HMF ROMIENIEC, EDWARD J., Sch. Architecture, Texas AM Univ., College Station, Tex. Adaptable building system--Progressive patient care

HM-00437-1 HSR ROTH, JULIUS A., Grad. Sch., Boston Univ., Boston, Mass. Utilization and functioning of the emergency service

HM-00443-1 HSR PERKINS, RALPH L., Hosp. Univ. Pennsylvania, Philadelphia, Pa. Feasibility--In house continuing administrative research unit

HM-00446-1 HMF DERRY, JOHN R., California State Dept. Pub. Hlth., Berkeley, Cal. Demonstration of a state information system for health facilities planning

Publications received from terminated HM projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

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LM-00013-1 HM ROSENBERG, CHARLES E., Univ. Pennsylvania, Philadelphia, Pa. The germ theory comes to America, 1870-1900

LM-00015-1 HM COWEN, DAVID L., University Col., Rutgers State Univ., New Brunswick, N.J. Impact of enlightenment on materia medica in Britain

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LM-00021-1 HM JONES, RUSSELL, Westminster Col., Fulton, Mo. American doctors in Paris, 1825-1848

LM-00047-1 HM GILBERT, BENTLEY B., Colorado Col., Colorado Springs, Colo. Toward a National Health Service

Contr. LM-65-20 Univ. California, Berkeley, Cal. Establish remote medlars bibliographic search and retrieval ctr.

Contr. LM-65-29 Photon Inc., Wilmington, Mass. Maintenance on photon high speed computer phototypesetter

Contr. LM-65-91 Biological Abstracts, Philadelphia, Pa. Prepare and publish abstracts in basic biology and medical fields

Contr. LM-65-92 Excerpta Medica Fdn., Amsterdam, Netherlands Translate and publish Soviet-Japanese abstracts of biomedical literature

Contr. LM-65-559 Univ. Colorado Med. Cr., Denver, Colo. Establish remote medlars search and retrieval center

Contr. LM-65-571 Federation of American Soc., Bethesda, Md. Prepare abstracts of papers from the 31st meeting of the IFD

Contr. LM-65-631 Yale Univ., New Haven, Conn. Computer analysis of biomedical book and journal use

Contr. LM-65-1043 Fed. American Society Ex. Bio., Bethesda, Md. Prepare papers given at 31st. meeting of International Federation for Documentation

Contr. LM-65-1064 Western Reserve Univ., Cleveland, Ohio Preparation of bibliography in field of schistosomiasis

MENTAL HEALTH

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OM-00220-7 MPG ITTELSON, WILLIAM H., Grad. Sch., Brooklyn Col., Brooklyn, N.Y. Influence of ward design on patient behavior

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OM-00294-6 MPG GORELICK, JACK, Assn. for Help of Retarded Children, N.Y.C. Occupation center for mentally retarded adults

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OM-01688-1 MPG LITSINGER, EDWARD A., Spencer State Hosp., Spencer, W. Va. Active alcoholic treatment unit

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OM-01692-1 MPG DE LEMOS, GASTON, West Virginia Dept. Mental Hlth., Huntington, W.Va. Day Care Center

OM-01693-2 MPG GRIMES, B.P., St. Peter State Hosp., St. Peter, Minn. Intensive vocational services project

OM-01694-1 MPG ZELLER, HECTOR C., Hastings State Hosp., Hastings, Minn. Rehabilitation of long-term psychiatric patients

OM-01696-1 MPG DOCHERTY, JOHN A., Anoka State Hosp., Anoka, Minn. A metropolitan adolescent treatment program

OM-01697-2 MPG TYCE, FRANCIS A., Rochester State Hosp., Rochester, Minn. Comprehensive Area Mental Health Center

OM-01698-1 MPG PATTERSON, WILLIAM L., Fergus Falls State Hosp., Fergus Falls, Minn. Family therapy in a mental hospital

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OM-01702-2 MPG SMITH, JOHN G., Dr. Joseph H. Ladd Sch., North Kingstown, R.I. Intensive programming for the profoundly retarded

OM-01703-2 MPG BACKRASS, ERWIN, Rhode Island Med. Cr., Howard, R.I. Day care center and foster home placement program

OM-01705-2 MPG RICHARDS, GUY A., Utah State Training Sch., American Fork, Utah Treatment of severely retarded

OM-01706-1 MPG LINGL, FREDERICK A., Hawthornden State Hosp., Northfield, Ohio Adolescent rehabilitation program

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OM-01708-2 MPG DUTY, JOSEPH E., Toledo State and Receiving Hosp., Toledo, Ohio Educational therapy project

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OM-01710-2 MPG diFURIA, GIULIO, Western State Hospital, Fort Steilacoom, Wash. Preparation for transition

OM-01712-2 MPG MARTIN, DONALD W., Pontiac State Hosp., Pontiac, Mich. Change to modified unit plan

OM-01713-2 MPG HINKO, EDWARD N., Ypsilanti State Hosp., Ypsilanti, Mich. Community-state mental hospital program integration

OM-01714-1 MPG VITOLS, M.M., Cherry Hosp., Goldsboro, N.C. Care of emotionally disturbed children and adolescents

OM-01716-2 MPG MANGUM, VERNON, O'Berry Center, Goldsboro, N.C. Therapeutic program for custodial residents

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MH-07129-3 EP **LEWIS, DONALD J.**, Grad. Sch., Rutgers State Univ., New Brunswick, N.J. ECS, retrograde amnesia and neural consolidation

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MH-07177-2 PET **JENKINS, GLENN L.**, Sch. Phar., Purdue Univ., West Lafayette, Ind. Chemobiomorphology of monoamine oxidase inhibitors

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MH-10421-1 MHP LOURIE, REGINALD S., Children's Hosp., Washington, D.C. Prevention of culturally determined retardation

MH-10429-1 BS GRIMSHAW, ALLEN D., Col. Arts, Sci., Indiana Univ., Bloomington, Ind. Social impact on an Indian city of a natural disaster

MH-10435-1 EP GUTH, SHERMAN L., Col. Arts, Sci., Indiana Univ., Bloomington, Ind. Stimulus patterning and experimental extinction

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MH-10450-1 MC CRAIG, JOHN C., Sch. Pharm., Univ. California, San Francisco, Cal. Synthesis of hydroxychlorpromazine sulfoxides

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MH-10460-1 BS SEEMAN, MELVIN, Grad. Sch., Univ. California, Los Angeles, Cal. A comparative study of alienation in work

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MH-10546-1 SRC WIESEL, BENJAMIN, Hartford Hosp., Hartford, Conn. Collaborative study of drug treatment in depression

MH-10551-1 MSM JENNESS, ARTHUR, Williams Col. Williamstown, Mass. Anxiety, imagery, and hypnotizability

MH-10555-1 MSM GALINSKY, MAEDA J., Sch. Social Work, Univ. Michigan, Ann Arbor, Mich. Evaluation of group work services

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MH-10567-1 MSM PODELL, LAWRENCE, New York City Dept. Welfare, New York, N.Y. Feasibility study of adolescent problems

MH-10572-1 BS NASH, JUNE C., Faculty Arts, Sci., Yale Univ., New Haven, Conn. Territorial and kinship groups in Indian communities

MH-10575-1 BEH NEEL, JAMES V., Sch. Med., Univ. Michigan, Ann Arbor, Mich. Genetic and biological effects of cultural practices

MH-10578-1 MSM WHITEMAN, MARTIN, Columbia Univ. Sch. Social Work, N.Y.C. Children's conceptions of psychological causality

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MH-10629-2 EP GLEITMAN, HENRY, Col. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa. Retention and interference processes

MH-10630-1 BEH READ, KENNETH E., Sch. Arts, Sci., Univ. Washington, Seattle, Wash. Intolerance of ambiguity and culture contact

MH-10634-1 MSM SPECTOR, ELLIOT, Col. Pharm., Northeastern Univ., Boston, Mass. Studies on the metabolic fate of mescaline

MH-10638-1 MSM REYNOLDS, JAMES H., Col. Liberal Arts, Hamilton, N.Y. Confirmation and non-confirmation in verbal learning

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MH-10642-1 NR **SAINATO, HELEN K.,** Saint Elizabeths Hosp., Washington, D.C. Staffing patterns in psychiatric nursing

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MH-10653-1 BS **SIMKINS, LAWRENCE,** Univ. Missouri, Kansas City, Mo. Reinforcement of verbal interactions

MH-10656-1 MSM **NOBLE, ERNEST P.,** Stanford Univ. Med. Sch., Palo Alto, Cal. Development of the biogenic amine systems

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MH-10669-1 MSM **SHADER, RICHARD I.,** Massachusetts Mental Hlth. Cr., Boston, Mass. Social field predictors of clinical outcome

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MH-10673-1 MC **BLANTON, C. DeWITT, Jr.,** Sch. Pharm., Auburn Univ., Auburn, Ala. Heterocyclic analogs of biologically active indoles

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MH-10692-1 EP **THOMPSON, MERRELL E.,** Col. Teacher Educ., New Mexico State Univ., University Park, N. Mex. Instrumental learning and response variability

MH-10698-1 BS **GORDON, ROBERT A.,** Fac. Philosophy, Johns Hopkins Univ., Baltimore, Md. Values of gang delinquents

MH-10700-1 MSM **TUCKER, IRVING F.,** Col. Liberal Arts, Louisiana State Univ., New Orleans, La. Stimulus articulation and familiarization

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MH-10716-1 MH **GOTTFREDSON, DON M.,** Inst. Study Crime and Delinquency, Vacaville, Cal. Parole prediction development

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MH-10720-1 MH **GOLDSTEIN, ARNOLD P.,** Syracuse Univ., Syracuse, N.Y. Interpersonal attraction in psychotherapy

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MH-10725-1 EP **WEBER, ROBERT J.,** Kenyon Col., Gambier, Ohio Discrimination learning and mediation in humans

MH-10726-1 MSM **KRYSTAL, HENRY,** Detroit Receiving Hosp., Detroit, Mich. Late sequelae of massive psychic trauma

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MH-10747-1 MSM **STEWART, CHARLES N.,** Franklin and Marshall Col., Lancaster, Pa. Effect of epinephrine on fear conditioning

MH-10748-1 MSM **SLATER, PHILIP E.,** Brandeis Univ., Waltham, Mass. Narcissism and cultural complexity

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MH-10753-1 EP **HABER, RALPH N.,** Col. Arts, Sci., Univ. Rochester, Rochester, N.Y. Antecedents of perceptual selectivity

MH-10754-1 MSM **SCHUCK, JOHN R.,** Col. Sci., Humanities, Iowa State Univ., Ames, Iowa The fragmentation of visual images

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MH-10756-1 MSM **FOX, STEPHEN S.,** Sch. Med., Univ. Michigan, Ann Arbor, Mich. The urohypophysis in self-osmoregulation

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MH-10764-1 BS **LACHMAN, ROY,** State Univ. New York, Buffalo, N.Y. Reception, storage and retrieval of verbal stimuli

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MH-10987-1 MSM HEATH, DOUGLAS H., Haverford Col., Haverford, Pa. Maturity, situational determinants and cultural values

MH-10989-1 SRC DENBER, HERMAN C.B., Manhattan State Hosp., Ward's Island, New York, N.Y. Drug treatment in chronic schizophrenia

MH-10990-1 SRC IRWIN, SAMUEL, Sch. Med., Univ. Oregon, Portland, Ore. Pre-clinical drug evaluation and methods development

MH-10991-1 BS CURTIS, RICHARD F., Col. Liberal Arts, Univ. Arizona, Tucson, Arizona Flexibility in community status systems

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MH-11751-1 MSM NOWLIS, DAVID P., Bryn Mawr Col., Bryn Mawr, Pa. A study of altered consciousness

MH-11752-1 PMY WEISS, BERNARD, Sch. Med., Univ. Rochester, Rochester, N.Y. Effects of psychopharmacologic agents on behavior

Fed Proc 23:801, 64. Drug effects on the temporal patterning of behavior.
J Exp Anal Behav 8:107, 65. Overt "mediating" behavior during temporally spaced responding.
Psychonom Sci 1:355, 64. Response cost and confirming behavior.
Science 148:658, 65. Reinforcement schedule generated by an on-line digital computer.

MH-11758-1 PET SPIRTES, MORRIS A., Veterans Admin. Hosp., Pittsburgh, Pa. Chlorpromazine effect on mitchondria

MH-11759-1 MSM WAHLER, ROBERT G., Col. Liberal Arts, Univ. Tennessee, Knoxville, Tenn. An analysis of child-child interactions

MH-11763-1 MSM LANDAUER, THOMAS K., Col. Humanities, Sci., Stanford Univ., Stanford, Cal. Early experience and growth

MH-11768-1 MH BAER, DONALD M., Grad. Sch., Univ. Kansas, Lawrence, Kan. Experimental analysis of social motivation

MH-11769-1 MSM LOCKHEAD, GREGORY R., Grad. Sch., Duke Univ., Durham, N.C. Dimensional redundancy and visual perception

MH-11771-1 MSM EISMAN, EUGENE H., Col. Letters, Sci., Univ. Wisconsin, Milwaukee, Wis. Psychological factors in cardiac function

MH-11772-1 MSM DYAL, JAMES A., Texas Christian Univ., Fort Worth, Tex. Three variables which may influence latent extinction

MH-11774-1 MSM PAVLIK, WILLIAM B., Col. Arts, Sci., Rutgers State Univ., New Brunswick, N.J. Reinforcement schedules and selective learning

MH-11776-1 MSM CRIST, ROBERT L., Illinois State Univ., Normal, Ill. Use of programmed material with retarded children

MH-11781-1 MSM SULLIVAN, RICHARD T., City Col. New York, New York, N.Y. Psychophysical judgment and sensory interaction

MH-11788-1 MSM RICKERS-OVSIANKINA, MARIA A., Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn. Development of a psychotherapy expectancy measure

MH-11789-1 MSM MATUSZAK, ALICE J., Sch. Pharm., Univ. of Pacific, Stockton, Cal. The effect of free radicals on sedative barbiturates

MH-11790-1 MSM IRWIN, SAMUEL, Oregon Regional Primate Res. Cr., Beaverton, Ore. Computer analysis of behavior drug studies

MH-11792-1 EP BINDER, ARNOLD, Grad. Sch., New York Univ., New York, N.Y. Factors influencing responses to ambiguous stimuli

MH-11795-1 MSM WELCH, ANNEMARIE S., Col. William and Mary, Williamsburg, Va. Stressors on foetal and neonate catecholamine metabolism

MH-11801-1 MSM MIKAELIAN, HARUTUNE H., Bowdoin Col., Brunswick, Me. Inter-system transfer of adaptation to rearrangement

MH-11803-1 MSM MEYERS, WILLIAM J., State Univ. Iowa, Iowa City, Iowa Autonomic correlates of attention in infants

MH-11806-1 MSM GOSSETTE, ROBERT L., Grad. Sch., Hofstra Univ., Hempstead, N.Y. Comparison of discrimination reversal performances

MH-11809-1 MSM TEGHTSOONIAN, ROBERT, Smith Col., Northampton, Mass. Acquisition of single items by individual subjects

MH-11810-1 MSM TEGHTSOONIAN, MARTHA, Smith Col., Northampton, Mass. Individual differences in the judgment of size

MH-11817-1 MSM GERARD, HAROLD B., Col. Letters, Sci., Univ. California, Riverside, Cal. Aspects of the decision sequence

MH-11827-1 MSM HORN, JOHN, Grad. Col., Univ. Denver, Denver, Colo. Invariance and change in factor patterns

MH-11828-1 PET RETZLAFF, ERNEST W., Battelle Mem. Inst., Columbus, Ohio Pharmacologic effects upon single nerve cell systems

MH-11829-1 MSM HAYES, DONALD P. and MELTZER, LEO, Col. Arts, Sci., Cornell Univ., Ithaca, N.Y. Information and social dominance

MH-11834-1 EP FOX, STEPHEN S., Col. Liberal Arts, State Univ. Iowa, Iowa City, Iowa D.C. correlates of sensory interaction and conditioning

MH-11867-1 MH SPIRO, MELFORD E., Univ. Chicago, Chicago, Ill. Socialization, personality and belief systems

MH-11872-1 EP WEISS, ROBERT F., Queens Col., City Univ., New York, Flushing, N.Y. Work inhibition and motivation learning

MH-11889-1 PMY WEINER, HERBERT, Montefiore Hosp., Med. Cr., Bronx, N.Y. Evoked potentials in animals and man

MH-11896-1 EP PEASTREL, AUGUST L., Norristown State Hosp., Norristown, Pa. Semantic and phonetic determinants of generalization

MH-11907-1 PMV STARK, LAWRENCE, Presbyterian-St. Luke's Hosp., Chicago, Ill. Psychopharmacological effects on system behavior

MH-11930-1 EP PREMACK, DAVID, Sch. Arts, Sci., Univ. California, Santa Barbara, Cal. Response distribution and positive reinforcement

Contr. MH-60-3758 Temple Univ. Res. Inst., Philadelphia, Pa. Synthesis of hydroxy derivatives of standard phenothiazines

Contr. MH-61-3021 Regis Chemical Co., Chicago, Ill. Dev. and synthesis of compounds related to psychopharmacology

Contr. MH-61-4394 Stanford Res. Inst., Menlo Park, Cal. Preparation of a handbook of animal psychopharmacology

Contr. MH-62-188 Johns Hopkins Univ., Baltimore, Md. Continue a center demonstrating mental health training methods

Contr. MH-62-454 Med. Res. Association of N.Y., New York, N.Y. Establish and operate a drug addict demonstration center

Contr. MH-62-465 General Electric Co., Philadelphia, Pa. Design dev. fab. remote controlled brain stimulator for primates

Contr. MH-62-475 Lynchburg T. Sch. Hosp., Colony, Va. Case finding follow-up and control program for phenylketonuria

Contr. MH-63-555 Hazleton, Falls Church, Va. Continuation and expansion of pharmacological testing services

Contr. MH-63-609 Am. Social Hlth. Assn., New York, N.Y. Compile literature in field of narcotics

Contr. MH-63-1135 Am. Assn. on Mental Def., Columbus, Ohio Establishment of a documentation service in mental retardation

Contr. MH-64-28 World Fed. Mental Hlth., Geneva, Switzerland Pilot study on developments in field of mental health

Contr. MH-64-32 Fdn. for Psychiatry, Mt. Kisco, N.Y. Development of a reference center for data on occupational mental health

Contr. MH-64-53 Mass. General Hosp., Boston, Mass. Continue demonstration on findings on treatment of alcoholism

Contr. MH-64-503 Pan American Health Org., Washington, D.C. Mental health facilities and list of personnel in Latin America

Contr. MH-64-532 Psychological Institute Denmark, Copenhagen, Denmark Schizophrenia study in biological and foster families of schizophrenic adopted persons

Contr. MH-64-537 Natl. Council Crime and Delinquency, New York, N.Y. Collecting and evaluating data on crime and delinquency

Contr. MH-64-578 Mental Health Matls. Cr., New York, N.Y. Data on mental health, family life and human relations

Contr. MH-64-931 Hine Labs., San Francisco, Cal. Methods for determining narcotic usage

Contr. MH-64-958 Kaiser Fdn. Hospital, Oakland, Cal. Psychotropic drug usage

Contr. MH-65-1 Natl. Child Res. Center, Washington, D.C. Provide subjects, services, facilities for child development research

Contr. MH-65-8 Ala. Dept. Pub. Health, Montgomery, Ala. Conference on mental health for public health nurses

Contr. MH-65-17 National Ass'n. State Mental Health, Washington, D. C. Provide reports concerning state and local mental programs

Contr. MH-65-18 Natl. Comm. for Children, Washington, D.C. Study state and local programs for children as related to mental health

Contr. MH-65-24 N.C. Dept. Mental Hlth., Raleigh, N.C. Study-develop med. records system--State mental health and retardation program

Contr. MH-65-28 Mental Hlth. Film Bd., New York, N.Y. Prepare annotated bibliography of mental health audio-visual material

Contr. MH-65-30 Hawaii Dept. of Hlth., Honolulu, Hawaii Expand reporting system of state psychiatric case register

Contr. MH-65-39 Documentation, Inc., Bethesda, Md. Establish and operate a psychopharmacology information service

Contr. MH-65-41 Menninger Fdn., Topeka, Kans. Research on childrens vulnerability to stress and interventive results

Contr. MH-65-48 Vt. Dept. Mental Hlth., Montpelier, Vt. Conference on effective board membership in rural community mental health program

Contr. MH-65-50 Kentucky Mental Health Fdn., Louisville, Ky. Conduct conference on mental health career motivation

Contr. MH-65-54 American Society for Pharm., Milan, Italy Organize and manage the second catecholamine symposium

Contr. MH-65-63 S.C. Alcoholic Program, Columbia, S.C. Conf. to dev. programs to help chronic alcoholic jail offender

Contr. MH-65-64 Md. Dept. Mental Hygiene, Baltimore, Md. Conference on the worker and mental health

Contr. MH-65-68 NEN Biomedical Assay, Boston, Mass. Microanalysis of drugs, drugs metabolites and neurohormones

Contr. MH-65-70 Univ. Cncl. Educ. Adm., Columbus, Ohio Seminars for better in-service learning experiences for school supts.

Contr. MH-65-72 Conn. Dept. Mental Hlth., Hartford, Conn. Conf. on training and education of psychiatric residents

Contr. MH-65-74 Am. Psychiatric Assn., Washington, D.C. Study of psychiatric facilities

Contr. MH-65-83 Penna. Citizens Cncl., Harrisburg, Pa. Conduct conf.--Protective services for older people

Contr. MH-65-84 American Psychiatric Assn., Washington, D.C. Conference on classification methods in psychiatry

Contr. MH-65-86 La. St. Dept. Hospitals, Baton Rouge, La. Conduct conference on nurses role in alcoholism programs

Contr. MH-65-96 New Jersey Dept. of Inst., Trenton, N.J. Conduct conf. on efforts toward rehabilitating the offender

Contr. MH-65-574 North Dakota State Dept. Hlth., Bismark, N.D. Conduct a conference on alcohol and youth

Contr. MH-65-583 Rhode Island Coun. Com. Ser., Newport, R.I. Conference for Public Health nurses and social workers on mental retardation

Contr. MH-65-584 Louisiana State Dept. Hospitals, New Orleans, La. Conduct conference communication in the helping process in nursing

Contr. MH-65-595 Oregon State B. and Cnti., Gearhart, Ore. Conference on unwed mother needs, psycho-social dynamics, effect, intervention

Contr. MH-65-597 Marine Biol. Lab., Woods Hole, Mass. Provide research facilities for visiting government scientists

Contr. MH-65-598 American Psychiatric Assn., Washington, D.C. Provide manpower data on psychiatrists in United States

Contr. MH-65-602 State of California, Asilomar, Cal. Volunteer services--A focus on staff leadership

Contr. MH-65-610 Rhode Island Dept. Soc. Welfare, Providence, R.I. Conference on alcohol education for teenagers

Contr. MH-65-615 State of Delaware, Wilmington, N.J. Conference on effective uses of mental health resources

Contr. MH-65-618 Maryland State Dept. Mental Hlth., Baltimore, Md. Conduct conference on mental health in aging

Contr. MH-65-626 General Practitioner Res., Middlesex, England Research on psychotherapeutic drugs in general practice

Contr. MH-65-630 Florida Assn. Mental Health, Orlando, Fla. Conduct a conference on the social rehabilitative club

Contr MH-65-648 Inst. Behavioral Science, Kaneohe, Oahu Study of ethnocultural variations in symptoms patterns

Contr. MH-65-649 Columbia Univ., New York, N.Y. Study contribution of laity to NIMH projects

Contr. MH-65-650 Conn. Dept. Mental Health, Hartford, Conn. Conference on the clergymans involvement in mental health

Contr. MH-65-652 Mental Hlth. Film Bd., New York, N.Y. Production of a film on mental health centers

Contr. MH-65-653 California Dept. Mental Hygiene, Sacramento, Cal. Conduct conference on meeting mental health needs in California

Contr. MH-65-987 Friends of Psychiatric Res., Baltimore, Md. Study relating to Maryland psychiatric case record

Contr. MH-65-995 Univ. Rochester, Rochester, N.Y. Study on the prevalence of mental illness

Contr. MH-65-998 Harvard Col., Cambridge, Mass. Design a study to identify factors related to schizophrenia

Contr. MH-65-1026 Kommune Hospitalet, Copenhagen, Denmark Study of genetic factors in the etiology of schizophrenia

Contr. MH-65-1038 NEN Biomedical Assay, Boston, Mass. Provide assay procedures and services

Contr. MH-65-1047 Univ. Michigan, Ann Arbor, Mich. Conduct study of mental health projects

Contr. MH-65-1049 Baltimore City Public Schools, Baltimore, Md. Supply information on 1,000 mental health cases

Contr. MH-65-1055 New York Academy Med., New York, N.Y. Study new legislative changes related to mental health centers

Contr. MH-65-1067 — State Univ. North Carolina, Raleigh, N.C.
An atlas of mental health needs and services in the United States

Contr. MH-65-1068 — Univ. Utah, Salt Lake City, Utah
The development of facilities for adolescents with mental illness

Publications received from terminated MH projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

NEUROLOGICAL DISEASES AND BLINDNESS

NB-00021-17 PHY — BULLOCK, THEODORE H., Univ. California, Los Angeles, Cal. Studies in comparative neurophysiology
Comp Biochem Physiol 13:453, 64. Transmission through distributed synapses between two giant axons.
J Physiol 175:425, 65. The effects of stretch on cable and spike parameters of single nerve fibres; some implications for the theory of impulse propagation.
Rev Sci Instr 35:1314, 64. On-line analog generation of joint-interval histogram.
Science 144:1361, 64. Neurophysiology: United States-Japan Joint Symposium.
Science 145:61, 64. Pacemaker neurons: Effects of regularly spaced synaptic input.
Science 145:69, 64. Dynamics of motion perception in the desert locust.
Z Tierpsychol 21:813, 64. Facilitation of a somatic reflex by sound in Rana clamitans; effects of sympathectomy and decerebration.
Z Vergl Physiol 49:114, 64. Through-conducting systems in ventral nerve cord of centipedes.
Z Vergl Physiol 49:285, 64. Pacemaker activity of the medullary nucleus controlling electric organs in high-frequency gymnotid fish.

NB-00024-16 BBC — SCHMITT, FRANCIS O., Massachusetts Inst. Tech., Cambridge, Mass. Biophysical and biochemical studies on nerve fibers

NB-00031-16 PHY — WANG, S.C., Col. Phy., Surg., Columbia Univ., N.Y.C. Physiology and pharmacology of the brain stem

NB-00044-14 VIS — HOGEN, MICHAEL J., Sch. Med., Univ. California, San Francisco, Cal. Investigations on ocular toxoplasmosis

NB-00045-15 CMS — TUNTURI, ARCHIE R., Sch. Med., Univ. Oregon, Portland, Ore. Anatomy and physiology of the auditory cortex
Naval Res Rev 1, Sep 64. The brain as a self-organizing system.

NB-00130-14 PC — FOLCH-PI, JORDI, McLean Hosp., Belmont, Mass. Chemistry of brain lipids and proteolipids
Biochim Biophys Acta 84:464, 64. Purification of bovine brain white matter proteolipids by dialysis in organic solvents.
Fed Proc 23, (No 2):229, 64. Composition and structure of sulfatides.
Fed Proc 23, (No 3, Part 1), May-Jun 64. Some considerations on the structure of proteolipids.

NB-00152-14 NEU — ADAMS, RAYMOND D., Sch. Med., Harvard Univ., Boston, Mass. Thalamocortical connections

NB-00173-14 PHY — SCHOEPFLE, GORDON M., Sch. Med., Washington Univ., St. Louis, Mo. Membrane potential changes in single fibers
Fed Proc 23:113, 64. Iodoacetate depression of Xenopus single nerve fibers.

NB-00190-14 CB — UZMAN, BETTY G., Children's Cancer Res. Fdn., Boston, Mass. The structure of the neuron
J Ultrastruct Res 11:208, 64. The spiral configuration of myelin lamellae.

NB-00193-13 NEU — WARD, ARTHUR A., Jr., Sch. Med., Univ. Washington, Seattle, Wash. Seizure mechanisms
Exp Neurol 10:285, 64. Intracellular studies of cortical neurons in chronic epileptogenic foci in the monkey.
J Neurophysiol 27:1192, 64. A study of single cortical neurons during spreading depression.
J Neurosurg 21:1033, 64. Morphology of the experimental epileptic focus.

NB-00201-13 NEU — PETERS, JOSEPH J., Xavier Univ., Cincinnati, Ohio Electroencephalography of the developing embryo
Am J Physiol 207:260, 64. Electrical changes in brain and eye of developing chick during hyperthermia.

NB-00213-13 VIS — ROBERTS, R. WINSTON, Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C. Glaucoma study--Low tension and early glaucoma

NB-00218-13 VIS — GRANT, W. MORTON, Mass. Eye and Ear Infir., Boston, Mass. Pressure-regulating mechanisms in glaucoma
Am J Ophthal 57:838, 64. Tears for gonioscopic fluid.
Am J Ophthal 59:31, 65. Corticosteroids and functions in the anterior segment of the eye.
Arch Ophthal 71:492, 64. Use of nitrate and nitrate vasodilators by glaucomatous patients.
Arch Ophthal 72:178, 64. Sedatives, stimulants, and intraocular pressure.
Arch Ophthal 73:495, 65. Glaucoma, alcohol, and intraocular pressure.
Arch Ophthal 73:707, 65. Interconnections of blood vessels and aqueous vessels in human eyes.

NB-00226-13 BIO — WAELSCH, HEINRICH B., Col. Phys., Surg., Columbia Univ., New York, N.Y. The amine incorporating system (transglutaminase)

NB-00237-14 VIS — JANES, RALPH G., State Univ. Iowa, Iowa City, Iowa Ocular changes in diabetes
Am J Ophthal 58:819, 64. Changes in the rabbit's eye caused by cholesterol feeding.
Proc Soc Exp Biol Med 117:572, 64. Effect of guanethidine and adrenal demedullation on hyperglycemic responses to diazoxide in rats.

NB-00253-13 VIS — LOEWENFELD, IRENE E., Col., Phys., Surg., Columbia Univ., N.Y.C. Pupillography, physiological and clinical research
Ann NY Acad Sci 117:142, Sep 64. The sleep-walking cycle and pupillary activity.

NB-00264-13 HEM — DIAMOND, LOUIS K., Childrens Hosp. Med. Cr., Boston, Mass. Study of hyperbilirubinemia in the newborn

NB-00269-13 CMS — LINDSAY, JOHN R., Univ. Chicago, Chicago, Ill. Circulation of inner ear
Acta Otolaryng 58:127, 64. Venous obstruction of the cochlea: Blood flow and function.

NB-00282-13 PET — KOELLE, GEORGE B., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa. Neurohumoral transmitters and related drugs

NB-00284-12 CB — PEASE, DANIEL C., Sch. Med., Univ. California, Los Angeles, Cal. Neuroanatomical investigations by electron microscopy
Histological Techniques for Electron Microscopy Academic Press, New York, 64.

NB-00285-11 BBC — SAIFER, ABRAHAM, Isaac Albert Res. Inst., Brooklyn, N.Y. Studies of proteins in chronic diseases
Anal Biochem 9, (No 3):316, Nov 64. Infrared spectra of the biologically important DNP and PTH amino acids.
Biochemistry 3:1024, 64. Protein-ion binding measurements by radioactive tracers. II. The binding constants of iodide and acetate ions to bovine serum albumin.
Clin Chem 10, (No 4):321, Apr 64. Photometric determination of urinary proteins.
Clin Chem 10, (No 11):970, Nov 64. The photometric microdetermination of tryptophan in biologic materials.
Clin Chim Acta 11:523, 65. Immunochemical studies of human serum components obtained with urea-starch gel electrophoresis.
J Lab Clin Med 63, (No 6):1054, Jun 64. A simple chemical test for distinguishing myeloma globulins from macroglobulins.

NB-00286-13 CMS — SCHNEIDER, ROBERT A., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla. Smell as a sensory function

NB-00294-12 VIS — BENDER, MORRIS B., Mount Sinai Hosp., N.Y.C. The oculomotor system and body postural mechanisms
Electroenceph Clin Neurophysiol 18:239, 65. Comparative thresholds of cortex, vestibular system and reticular formation in wakefulness, sleep and rapid eye movement periods.
Exp Neurol 10, (No 5):393, Nov 64. Head, eye, body and limb movements from semicircular canal nerves.
Fed Proc 24:207, 65. Ocular return movements in the alert cat and monkey.
Fed Proc 24:646, 65. Brainstem structures controlling horizontal eye movements.
Neurology 15:270, 65. Eye, head and body movements from semicircular canal nerve stimulation.
Neurology 15:270, 65. Eye movements induced by electrical stimulation of the cerebellum.
Proc 8th Int Congr Neurol Sci, 65. Electrical concomitants of visual-oculomotor and vestibular responses.
Proc 8th Int Congr Otorhinolaryng, Tokyo, Japan, Oct 65. Head and eye movements induced by semicircular canal nerve stimulation.
Proc 23rd Int Congr Physiol Sci, Tokyo, Japan, Sep 65. Eye movements from cerebellar stimulation.
Proc 23rd Int Congr Physiol Sci, Tokyo, Japan, Sep 65. Anatomic and physiologic basis for vertical eye movement.
Proc 23rd Int Congr Physiol Sci, Tokyo, Japan, Sep 65. Effect of brainstem lesions on individual semicircular canal responses.

(contd)

NB-00702-11 (contd)

Proc Biophys Soc 9th Ann Mtg, p. 121, 65. Sodium and sulphate efflux from the superior cervical ganglion of the rat.

NB-00704-12 NEU INGERSOLL, EVERETT H., Med. Col. Virginia, Richmond, Va. Bladder function in lathyrism

Anat Rec 148:266, 64. Behavioral and neuropathological changes following x-irradiation of rat brain.

J Comp Physiol Psychol 59, (No 1):90, 65. Behavioral and neuropathological changes in the rat following x-irradiation of the frontal brain.

NB-00706-11 GEN METRAKOS, JULIUS D., McGill Univ., Montreal, Canada Genetics of convulsive disorders

Proc 2nd Int Congr Hum Genet p. 1655, 64. The genetics of convulsive disoders in the families of hemiplegics.

Proc 2nd Int Congr Hum Genet, p. 1792, 64. The centrencephalic EEG in epilepsy.

NB-00732-11 NEU WOOLSEY, CLINTON N., Sch. Med., Univ. Wisconsin, Madison, Wis. Comparative studies on cerebral localization

Fed Proc 23:304, 64. Environmental temperature and potential waves in footpads of nonanesthetized low spinal cats.

Physiologist 7:196, 64. Projection of dorsal roots to cerebral cortex of squirrel monkey.

Physiologist 7:278, 64. Electrodermal reflex of unanesthetized normal cats under different ambient temperatures.

Science 146:431, 64. Wave form of electrodermal responses in anesthetized cats.

Cerebral Localization and Organization, Univ Wisconsin Press, Madison, 12:164, 64. Cortical localization as defined by evoked potential and electrical stimulation studies.

The Frontal Granular Cortex and Behavior, McGraw Hill, New York, Ch. 8, 10:492, 64. Learning by squirrel monkeys with frontal lesions.

The Frontal Granular Cortex and Behavior, McGraw Hill, New York, Ch. 18, 10:492, 64. Comparative anatomy of frontal cortex and thalamofrontal connections.

The Neural Control of Sweating, Univ Wisconsin Press, Madison, 10:129, 64.

NB-00738-11 PET TAYLOR, DERMOT B., Univ. California, Los Angeles, Cal. Mode of action of neuromuscular blocking agents

NB-00779-11 NEU NULSEN, FRANK E., Sch. Med., W. Reserve Univ., Cleveland, Ohio Sensory pathways in brain and spinal cord

NB-00786-11 VIS HOGAN, MICHAEL J., Univ. California Med. Cr., San Francisco, Cal. Studies on ocular toxoplasmosis

Arch Ophthal 72:592, Nov 64. Ocular toxoplasmosis.

NB-00810-10 VIS SLOAN, LOUISE L., Sch. Med., Johns Hopkins Univ. Baltimore, Md. Use of optical aids--Studies in physiological optics

Am J Ophthal 58, (No 4):594, Oct 64. Relative merits of headborne, hand and stand magnifiers.

Am J Ophthal 58, (No 4):604, Oct 64. New focusable stand magnifiers.

NB-00818-11 NEU STONE, WILLIAM E., Sch. Med., Univ. Wisconsin, Madison, Wis. Chemical physiology of the brain

Biochem Pharmacol 13:477, 64. A neurochemical study of thiosemicarbazide seizures and their inhibition by amino-oxyacetic acid.

Biochem Pharmacol 13:543, 64. Effects of methionine sulfoximine on levels of free amino acids and related substances in brain.

NB-00838-11 END FINGERMAN, MILTON, Liberal Arts Col., Tulane Univ., New Orleans, La. Crustacean endocrinology

Am Zool 2:408, 62. Alteration in the number of active neurosecretory cells in the eyestalk of the crayfish, Orconectes clypeatus, maintained in darkness.

Am Zool 2:408, 62. Endocrine regulation of the reflecting retinal pigment in the isopod, Ligia exotica.

Am Zool 4:334, 64. Daily rhythm of color change in eyestalkless fiddler crabs, Uca pugilator.

Am Zool 4:413, 64. Differences between the chromatophore systems of juvenile and adult specimens of the crayfish, Procambarus clarki.

Science 144:1462, 64. Endocrine control of tanning in the crayfish exoskeleton.

NB-00840-11 NEU SCHARRER, BERTA, Albert Einstein Col. Med., New York, N.Y. Neuroendocrine integration

Ann NY Acad Sci 117:13, 64. Photo-neuro-endocrine systems: General concepts.

Z Zellforsch 61:803, 64. A specialized trophospongium in large neurons of Leptodora (Crustacea).

Z Zellforsch 64:327, 64. Cells with microvillous borders in the cerebral ganglion of Leptodora kindtii Focke.

NB-00847-10 NEU BROOKS, CHANDLER M., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y. Function of neurons and higher integrative centers

Fed Proc 24, (No 2):462, 65. Accomodative reactions in elements of the spinal cord.

J Comp Neurol, Jun 65. The projection of afferent pathways on the thalamus of the rat.

Proc 17th Ann Acad Neurol, 65. Control of the neurons of the supraoptic and paraventricular nuclei.

NB-00850-10 PHY HINES, MARION, Sch. Med., Emory Univ., Atlanta, Ga. Contractile elements in muscle

NB-00858-10 NEU MURRAY, MARGARET R., Col. Phys. Surg., Columbia Univ., N.Y.C. Factors governing health of the neuron

Anat Rec 151:329, 65. Ultrastructural characteristics of synapses forming in cultured spinal cord.

Anat Rec 151:340, 65. Onset and development of functional relations within and between explants of mammalian cord-ganglia during differentiation in vitro.

Anat Rec 151:379, 65. Intraneuronal fluorescence spectroscopy of chlorpromazine and comparison with standard curves.

Ann NY Acad Sci 118:206, 64. Some cytologic effects of salivary nerve growth factors on tissue cultures of peripheral ganglia.

Ann NY Acad Sci 122:39, 64. Patterns of peripheral demyelination in vitro.

J Cell Biol 23:114A, 64. Bioelectrical and electron microscopic evidence for development of synapses in spinal cord cultures.

J Cell Biol 24:163, 65. An electron microscope study of cultured rat spinal cord.

J Cell Comp Physiol 64:1, 64. Complex bioelectric activity in organized tissue cultures of spinal cord (human, rat and chick).

Z Zellforsch 66:130, 65. Differentiation and prolonged maintenance of bioelectrically active spinal cord cultures (rat, chick and human).

The Biology of Cells and Tissues in Culture, Academic Press, New York, 2, (Ch 8):311, 64. Muscle.

The Biology of Cells and Tissues in Culture, Academic Press, New York, 2:373, 64. Nervous tissues in vitro.

NB-00862-13 END SMITH, STUART W., Sch. Med., Univ. Colorado, Denver, Colo. Studies on neurosecretion and pars nervosa hormone

J Cell Biol 22:653, 64. Fine structure of the pineal organs of the adult frog, Rana pipiens.

NB-00864-10 VIS HARTLINE, HALDAN K., Rockefeller Inst., New York, N.Y. Electrical activity of single receptors and neurons of the eye

Acta Physiol Scand 63 (Suppl 243):1, 65. The insect corneal nipple array: A biological, broad-band impedance transformer that acts as an anti-reflection coating.

Ann NY Acad Sci 115:915, Jul 64. The role of a digital computer as a biological instrument.

J Opt Soc Am 54:581, 64. Insect corneal array--A natural impedance transformer.

Science 146:190, 64. Digital computers in the biological laboratory.

NB-00872-11 PET ESPLIN, DON W., Sch. Med., Univ. Utah, Salt Lake City, Utah. Neuropharmacology of centrally-acting drugs

Arch Int Pharmacodyn 147:490, 64. Central excitatory and neuromuscular paralyzant effects of pilocarpine in cats.

Arch Int Pharmacodyn 147:525, 64. Role of seizure spread in determining maximal convulsion pattern in rats.

Fed Proc 23:233, 64. Peripheral cholinergic blockade by drugs which block central inhibition.

J Pharmacol 143:174, 64. Pilocarpine blockade of spinal inhibition in cats.

Pharmacologist 6:192, 64. Evidence for release depletion of the inhibitory transmitter by pilocarpine in mice.

Pharmacologist 6:192, 64. Analysis of the effects of arecoline on central inhibition.

Pharmacologist 6:192, 64. Blockade of central inhibition by C-alkylpiperidines.

NB-00874-9 NEU DAVIS, GEORGE D., Sch. Med., Louisiana State Univ., New Orleans, La. Cerebral control of spontaneous locomotor activity

NB-00875-8 NEU KOPELOFF, LENORE M., New York State Psychiatric Inst., N.Y.C. Epilepsy after cerebral injection of metallic powders

NB-00884-9 PHY LIBET, BENJAMIN, Sch. Med., Univ. California, San Francisco, Cal. Synaptic transmission in autonomic ganglia

J Physiol 174:1, 64. Slow synaptic responses and excitatory changes in sympathetic ganglia.

NB-00894-10 NEU HARVEY, A. McGHEE, Sch. Med., Johns Hopkins Univ., Baltimore, Md. Neuromuscular function in normal man and in disease
Biorheology 2:87, 64. Ananalytical description of joint stiffness.
Bull Hopkins Hosp 115:447, 64. The control of movement in normal subjects.
Bull Hopkins Hosp 115:465, 64. The disordered movement in parkinsonism and the effect of drug treatment.
Disorders of Voluntary Muscle, Churchill Pub Co, London, p. 579, 64. Potential changes in the normal and diseased muscle cell.

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Trans Am Soc Testing Materials Sympos Plastic Implants, Nov 64. Principles of polymer implantation.

Trans Pan Am Congr Ophthal, 64. Plastic artificial cornea.

Trans World Congr Cornea, 64. A 15-year study of the plastic artificial cornea--Basic principles.

Management of Complications in Eye Surgery. WB Saunders Co, Philadelphia, Pa, 64. Complications of evisceration and enucleation.

NB-06115-1 NEU MOREST, DONALD K., Harvard Med. Sch., Boston, Mass. Structure and connections of posterior thalamus

NB-06116-1 NSS BUCY, PAUL C., Chicago Wesley Mem. Hosp., Chicago, Ill. International travel fund for neurological congresses

NB-06117-1 NSS SMELSER, GEORGE K., Col. Phys., Surg., Columbia Univ., New York, N.Y. Travel of young investigators to eye anatomy meeting

NB-06238-1 END WERK, EMILE E., Jr., General Hosp., Cincinnati, Ohio Steroid metabolism in convulsive disorders

NB-06239-1 NEU FRIEDE, REINHARD L., Western Reserve Univ., Cleveland, Ohio Chemical architecture and pathology of the brain

NB-06240-1 NSS SANCHEZ LONGO, LUIS P., Sch. Med., Univ. Puerto Rico, San Juan, P.R. Planning conference for Second Pan American Congress

NB-06241-1 CB HARRISON, JOHN R., Washington and Jefferson Col., Washington, Pa. Growth and differentiation of chick embryonic eye

NB-06242-1 PHY ADELMAN, WILLIAM J., Jr., Sch. Med., Univ. Maryland, Baltimore, Md. A conference on biophysics of excitable membranes

NB-06243-1 NSS BECKER, BERNARD, Sch. Med., Washington Univ., St. Louis, Missouri Visual disorders program development

NB-06244-1 NSS SOOY, FRANCIS A., Med. Cr., Univ. California, San Francisco, Cal. Communicative disorders program development

NB-06246-1 NSS OLDENDORF, WILLIAM H., Veterans Admin. Cr., Los Angeles, Cal. International cooperative cerebrovascular study

NB-06265-1 NSS MERRITT, H. HOUSTON, Col. Phys., Surg., Columbia Univ., New York, N.Y. Collaborative study of epilepsy

NB-06281-1 VIS STONE, WILLIAM, Jr., Cedars-Sinai Med. Cr., Los Angeles, Cal. Alloplastic substitution for opacification of cornea

NB-06284-1 VIS FRIEDMAN, EPHRAIM, Boston Univ. Med. Cr., Boston, Mass. Retinal microcirculation

NB-06304-1 VIS GIBSON, ROBERT H., Univ. Pittsburgh, Pittsburgh, Pa. Communication by electrical stimulation of the skin

NB-06323-1 NSS EVANS, JOSEPH P., Univ. Chicago, Chicago, Ill. Head injury conference

Contr. NB-62-852 Clarke Sch. for Deaf, Northampton, Mass. Research on hereditary deafness

Contr. NB-63-46 Columbia Univ., New York, N.Y. Continue study of training in the neurological sciences

Contr. NB-64-44 Natl. Acad. Sci., Washington, D.C. Collection of plants in micronesia useful as food or medicine

Contr. NB-64-44 T.O.1 National Academy Science, Washington, D.C. Continue participation in medical science conferences

Contr. NB-64-44 T.O.3 National Academy Science, Washington, D.C. Expand scope to include evaluation of research support program

Contr. NB-64-44 T.O.4 National Academy Science, Washington, D.C. Expand scope to include evaluation of rearch support program

Contr. NB-64-72 Hazleton, Falls Church, Va. Continue project to obtain and maintain primates for innoculation

Contr. NB-64-550 Bianche Association, Kensington, Md. Provide for data processing services

Contr. NB-64-586 North Carolina Univ., Chapel Hill, N.C. Research-use of APGAR index in neonatal mortality and infant morbidity

Contr. NB-64-870 Computers for Ind., New York, N.Y. Provide EDP services for NIND

Contr. NB-64-871 Service Bureau Corp., Wheaton, Md. Provide electronic data processing svcs. required by NINDB

Contr. NB-64-892 California Univ., Berkeley, Cal. Continue development of medical information center on brain function

Contr. NB-65-23 Johns Hopkins Univ., Baltimore, Md. Develop methodology to establish information center on human communications

Contr. NB-65-33 Ore. Comm. for Blind, Portland, Ore. Maintain and update Oregon register of blind persons

Contr. NB-65-90 Microbiological, Bethesda, Md. Prepare and deliver RK-13 RCB-MK2 and LLC-MK2 cell cultures

Contr. NB-65-597 Marine Biol. Lab., Woods Hole, Mass. Provide research facilities for visiting government scientists

Contr. NB-65-599 New York State Dept. Soc. Welfare, New York, N.Y. Update New York State registry for blind

Contr. NB-65-603 — Sanlab, Baltimore, Md. Provide printed circuits used in solid state visual control units

Contr. NB-65-611 — Natl. Biomedical Res. Fdn., Silver Spring, Md. Provide computer analysis of nerve cells

Contr. NB-65-651 — State of New Hampshire, Concord, N.H. Revise register of blind persons

Publications received from terminated NB projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

NURSING

NU-00002-2 NR — STRAUSS, ANSELM W., Sch. Nursing, Univ. California Med. Cr., San Francisco, Cal. Nutrition as an aspect of nursing care

NU-00012-5 NR — DUFF, RAYMOND S., Grace-New Haven Hosp., New Haven, Conn. A study of nursing in a general hospital

NU-00018-7 NR — THURSTON, JOHN R., Wisconsin State Univ., Eau Claire, Wis. Prediction of success in nursing education

NU-00019-6 NR — ELLIOTT, JO E., Western Interstate Comm. Educ., Boulder, Colorado Defining clinical content--Graduate nursing programs

NU-00020-6 NR — HASSENPLUG, LULU W., Sch. Nursing, Univ. California, Los Angeles, Cal. An evaluation and study of faculty research potential

NU-00021-5 NR — AUSTIN, FLORENCE C., Visiting Nurse Assn., Hartford, Conn. Community nursing services for psychiatric patients

NU-00023-6 SSS — HENDERSON, VIRGINIA A., Sch. Nursing, Yale Univ., New Haven, Conn. Index to research in nursing for publication

NU-00024-6 NR — NAHM, HELEN, Sch. Nursing, Univ. California, San Francisco, Cal. The development of identities in nursing

Hum Organization 23, Summer 64. The faces of Florence Nightingale: Functions of the heroine legend in an occupational sub-culture.

Sociometry 26, Mar 63. Initiation into a woman's profession: Identity problems in the status transition of coed to student nurse.

The Nursing Profession, Preface, John Wiley, New York, Fall 65.

The Nursing Profession, John Wiley, New York, Fall 65. Problems and issues in collegiate nursing education.

NU-00025-4 NR — BAZIAK, ANNA T., Sch. Nursing, Yale Univ., New Haven, Conn. Investigation of nursing values in a psychiatric hospital

NU-00028-6 NR — McKINNEY, JOHN C., Sch. Nursing, Duke Univ., Durham, N.C. The professionalization process in nursing

Hum Organization, Dec 65. T ne sampling as a field technique.

NU-00030-5 NR — SOMMERMEYER, LUCILLE, Sch. Nursing, Boston Univ., Boston, Mass. Improving competencies in research of selected nurses

NU-00042-4 NR — RUDNICK, BETTY, Sch. Nursing, Univ. Texas, Galveston, Texas Performance variables in collegiate nursing education

NU-00043-3 NR — SHIRK, FRIEDA I., Sch. Nursing, Ohio State Univ. Res. Fdn., Columbus, Ohio Improving competence of nursing faculty in research

NU-00045-3 NR — REESE, EVA M., Visiting Nurse Serv., New York, N.Y. Public health nursing for the sick at home

NU-00047-4 NR — STRAUSS, ANSELM, Sch., Nurs., Univ. California, San Francisco, Cal. Hospital personnel, Nursing care, and dying patients

NU-00048-3 NR — LAMBERTSEN, ELEANOR C., Teachers Col., Columbia Univ., N.Y.C. Utilization of sabbaticals for research training

NU-00050-3 NR — PSATHAS, GEORGE, Washington Univ., St. Louis, Mo. Role differentials and nursing ideology

NU-00056-4 NR — THIGPEN, LORNA, Sch. Nursing, Emory Univ., Atlanta, Ga. A project to develop faculty research competence

NU-00059-3 NR — HANSEN, ANN C., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C. Decision-making in public health nursing

NU-00060-3 NR — DUMAS, RHETAUGH G., Sch. Nursing., Yale Univ., New Haven, Conn. Clinical experiments in nursing practice

NU-00062-3 NR — TAYLOR, CALVIN W., Sch. Letters, Sci., Univ. Utah, Salt Lake City, Utah Measurement and prediction of nursing performance

NU-00063-3 NR — WALD, FLORENCE S., Sch. Nursing, Yale Univ., New Haven, Conn. Proposal to develop nursing faculty research ability

Mod Hosp 104, (No 2), Feb 65. Emotional steam clouds emergency care.

Nurs Res 13, (No 3):309, Fall 64. Toward nursing practice theory.

Nurs Res 14, (No 2), Spring 65. Two experimental tests of a patient-centered admission process.

NU-00065-3 NR — McLEMORE, SAMUEL D., Grad. Sch., Univ. Texas, Austin, Texas Organizational effects of nurse management workshops

NU-00066-2 NR — SOLON, JERRY A., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa. Nursing students' use of medical services

NU-00067-3 HSR — FORD, AMASA B., Sch. Med., Western Reserve Univ., Cleveland, Ohio Continued care by nurses and doctors--An experiment

Clin Res 12:296, Apr 64.

NU-00068-2 MH — SCHLOTFELDT, ROZELLA M., Sch. Nursing, Western Reserve Univ., Cleveland, Ohio Sensory deprivation and effective nurse interventions

NU-00069-3 NR — SCHLOTFELDT, ROZELLA M., Sch. Nursing, Western Reserve Univ., Cleveland, Ohio Faculty research development

Nurs Res 12:153, Summer 63. Nurses and behavioral scientists: An alternative assessment.

The Development of Faculty Competence in Research, Nat League for Nursing, 64. Assessment of on-going research in nursing.

NU-00072-2 NR — NAHM, HELEN, Univ. California Med. Cr., San Francisco, Cal. An experiment in nursing curriculums at a university

NU-00077-2 NR — STONE, JOSEPH, Mount Sinai Hosp., Milwaukee, Wis. Home care in comparison with continued hospitalization

NU-00078-2 NR — INGMIRE, ALICE E., Sch. Nursing, Univ. California Med. Cr., San Francisco, Cal. Investigating effectiveness of a leadership program in nursing

NU-00080-2 NR — WHITE, RUTH P., Col. Med., Univ. Vermont, Burlington, Vt. Patient care classification--Methods and application

J Chronic Dis 17:761, 64. Patient care classification as a basis for estimating graded inpatient hospital facilities.

NU-00081-2 NR — SMITH, ALICE E., Columbia Union Col., Takoma Park, Md. To improve faculty competency in research

Vocational Guid Quart, Winter 65. The nurse stereotype must go.

NU-00085-2 NR — CULVER, CHARLES M., Sch. Nursing, Duke Univ. Med. Cr., Durham, N.C. The acquisition of interpersonal sensitivity by nurses

NU-00087-2 NR — FRITZ, EDNA L., Sch. Nursing, Univ. Minnesota, Minneapolis, Minn. Faculty project for strengthening research competence

NU-00089-2 NR — GROSS, YUKIE T., Col. Nursing, Univ. Hawaii, Honolulu, Hawaii Characteristics of collegiate nursing students Hawaii

NU-00092-2 HSR — WILSON, DOROTHY, Community Nursing Services, Philadelphia, Pa. Combining nursing agencies

NU-00093-3 NR — RICHARDSON, ELIZABETH H., Sch. Nursing, Tuskegee Inst., Tuskagee, Alabama Nursing care of premature infants in the home

Nurs Outlook 12, (No 6), Jun 64. A teachmobile for premature infant care.

NU-00094-2 NR — LITTLE, DOLORES E., Sch. Nursing, Univ. Washington, Seattle, Wash. Nurse specialists' effect on recovery in tuberculosis

NU-00095-2 NR — HOWLAND, DANIEL, Col. Eng., Ohio State Univ., Columbus, Ohio The nurse-monitor in a patient-care system

NU-00096-3 NR — MELTZER, LAWRENCE E., Presbyterian Hosp., Philadelphia, Pa. Intensive nursing care in acute myocardial infarction

Acad Med New Jersey Bull 10:304, 64. The concept and system for intensive coronary care.

Am J Nurs 65:76, 65. Nursing in a coronary care unit.

JAMA 191:187, 65. Danger in cardioversion: Height of R and T waves.

Lancet 1:106, 65. Intensive-care units for patients with acute myocardial infarction.

Mod Hosp 104:102, 65. Coronary units can help decrease deaths.

NU-00097-2 NR — ELLIOTT, JO ELEANOR, Western Interstate Comm. for Higher Educ., Boulder, Colorado Investigation of nursing content--Baccalaureate nursing programs

NU-00103-2 NR — LYNCH, THERESA I., Sch. Nursing, Univ. Pennsylvania, Philadelphia, Pa. Development of faculty research competence

NU-00104-2 NR — SMITH, GENE, Massachusetts Gen. Hosp., Boston, Mass. Relationship of personality to success in nursing school

NU-00105-2 NR — JOHNSON, WALTER L., American Nurses' Fdn., Inc., New York, N.Y. Crucial variables in nurse-patient interaction

NU-00107-2 HM — MARSHALL, HELEN E., Grad. Sch., Illinois State Normal Univ., Normal, Ill. Adelaide Nutting and rise of the nursing profession

NU-00112-2 NR — SMITH, DOROTHY M., Col. Nursing, Univ. Florida, Gainesville, Fla. A project to improve research competency in faculty

NU-00113-2 HM GOWAN, SISTER M. OLIVIA, College of St. Scholastica, Duluth, Minn. The development of professional nursing at CUA 1932-1958--Relationships to the national scene

NU-00116-2 NR PERLMUTTER, BEATRICE, Bronx Community Col., Bronx, N.Y. New dimensions for improvement of clinical nursing--Development of criteria to measure the effectiveness of clinical nursing practice

NU-00120-2 NR CRAYTOR, JOSEPHINE K., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y. Development of programmed units in nursing

NU-00126-2 NR SELMANOFF, EUGENE D., Indiana Univ. Med. Cr., Indianapolis, Ind. Ambiguities in the nurse-doctor role relationship
Nurs Outlook p. 57, Feb 65. Management: A factor in clinical nursing.
Nurs Res 14, (No 1):72, Winter 65. A note on the accuracy of the temperature, pulse and respiration procedure.
Nurs Res 14, (No 1):85, Winter 65. The Ward manager system: A case study of the organization of hospital nursing care.

NU-00127-1 NR FAVILLE, KATHARINE, Col. Nursing, Wayne State Univ., Detroit, Mich. Identification of researchable nursing care problems--A plan for exploration

NU-00128-1 NR LEVINE, SOL, Sch. Pub. Hlth., Harvard Univ., Boston, Mass. Relationship of nursing education to performance

NU-00130-2 NR BERTHOLD, JEANNE S., F.P. Bolton Sch. Nursing, Western Reserve Univ., Cleveland, Ohio Process of concept attainment and nurses' preferences

NU-00131-1 NR WOODEN, HOWARD E., Col. Nursing, Univ. Florida, Gainesville, Fla. Care programming and the nursing analysis

NU-00132-1 NR McDOWELL, WANDA, American Nurses Assn., New York, N.Y. Nursing research critique proposal for conferences

NU-00133-2 NR WIENS, ARTHUR N., Univ. Oregon Med. Sch., Portland, Ore. Studies of verbal interaction behavior of nurses

NU-00139-1 NR COULTER, PEARL P., Sch. Nursing, Univ. Arizona, Tucson, Ariz. Climate of scientific inquiry for faculty development

NU-00142-1 NR SIMON, HELEN M., New York City Dept. Health, N.Y.C. Exploration of parental utilization of nursing services for children

NU-00145-1 NR LEWIS, CHARLES E., Univ. Kansas Med. Cr., Kansas City, Kans. The dynamics of nursing in ambulatory patient care

NU-00146-1 NR SACHS, MARVIN L., Hosp. Univ. Pennsylvania, Philadelphia, Pa. Circulatory and postural factors in pressure sores

NU-00150-1 NR GEORGOPOULOS, BASIL S., Univ. Michigan Ann Arbor, Mich. Effectiveness of a clinical nurse specialist role

NU-00154-1 NR FREEMAN, RUTH B., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md. Faculty research development program

NU-00158-1 NR KLAUS, DAVID J., American Inst. Research, Pittsburgh, Pa. Controlling experience to improve nursing proficiency

NU-00163-1 NR FAVILLE, KATHERINE, Col. Nursing, Wayne State Univ., Detroit, Mich. Faculty research development grant

NU-00167-1 NR QUINN, MILDRED D., Col. Nursing, Univ. Utah, Salt Lake City, Utah Development of faculty competence in research

NU-00168-1 NR ABRAHAMSEN, CHRISTINE E., Med., Hlth. Res. Assn. New York City, Inc., New York, N.Y. Preliminary inquiry into management of secondary school-student health problems

NU-00170-1 NR McKENNA, JOSEPH V., St. Louis Univ., St. Louis, Mo. The service manager system--Nurse efficacy and cost

NU-00175-1 NR PAVALKO, RONALD M., Col. Letters, Sci., Univ. Wisconsin, Madison, Wis. A longitudinal study of nursing careers

Publications received from terminated NU projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

OFFICE OF THE DIRECTOR, NIH

Contr. OD-62-853 National Academy Science, Washington, D.C. Career patterns of PH.D. Scientists

Contr. OD-65-1006 Fels Research Inst., Yellow Springs, Ohio An osseous evaluation of a Central American population

Contr. OD-OIR-65-69 Tulane Univ. of Louisiana, New Orleans, La. Processing of dietary information and design research analysis

Contr. OIR-65-89 Pan American Health Organization, Washington, D.C. Perform a nutrition survey in two Central American countries

Contr. OIR-65-572 Univ. California, Berkeley, Cal. Conduct nutritional survey in Chile, South America

Contr. OIR-65-642 Univ. Texas, Galveston, Texas Tabulation and statistical analyses of data collected

Contr. OIR-65-1062 Virginia Poly. Inst., Blacksburg, Va. Evaluation of high protein supplements in child feeding operations

OCCUPATIONAL HEALTH

OH-00002-4 PATH NELSON, NORTON, Sch. Med., New York Univ., N.Y.C. Lung cancer from environmental sources

OH-00005-10 TOX BAETJER, ANNA M., Sch. Hygiene and Pub. Hlth., Johns Hopkins Univ., Baltimore, Md. Effect of environmental factors on toxic reactions
Excerpta Med Int Congr Ser No 62, p.795, 64. Effects of environmental temperature and dehydration on lead poisoning in laboratory animals.

OH-00006-7 AFY ASHE, WILLIAM F., Ohio State Univ., Columbus, Ohio Physiological and pathological effects of vibration
Aerospace Med 33:339, 62. Respiratory response to whole body vertical vibration.
Arch Environ Health 9:425, Oct 64. Occupational Raynaud's. II. Further studies of this disorder in uranium mine workers.

OH-00007-6 ESE NEVINS, RALPH G., Kansas State Univ., Manhattan, Kansas Study of effect of floor temperatures on comfort

OH-00019-6 BM KETHLEY, THOMAS W., Georgia Inst. Tech., Atlanta, Ga. Bacterial load of air in simulated operating rooms
Am Industr Hyg Assn J 25:67, 64. Experimental verification of ventilation equations.
Proc 1st Int Sympos Aerobiol, Univ Calif, Berkley, p. 71, 64. A mathematical critique for surgical wound infection by airborne bacterial particles.
Proceedings of the National Conference on Institutionally Acquired Infections, Pub Health Serv Pub, No 1188:35, 64. Air: Its importance and control.

OH-00028-4 TOX CORNISH, HERBERT H., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich. Potentiation of toxicity in organic solvent mixtures

OH-00034-7 GM SAMITZ, M.H., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa. Clinical and laboratory studies of metal sensitivity
Derm Dig 3, (No 6), Jun 64. A current rev of the chromate problem.
J Invest Derm 43, (No 1):35, Jul 64. A study of the chemical reactions between chromium and skin.

OH-00036-5 PATH EMANUEL, DEAN A., Marshfield Clinic Fdn., Marshfield, Wis. Farmer's lung, an experimental investigation
Am J Med 37:392, Sep 64. Farmer's lung. Clinical, pathological and immunological study of twenty-four patients.
Ann Allerg 22:533, Oct 64. Isolation of the causative agent of farmer's lung.
Mod Med p. 106, May 64. Management of farmer's lung.
Proc Am Thorac Soc Ann Mtg, New York, May 64. Histopathology and immunology of farmer's lung.

OH-00044-5 PATH RANKIN, JOHN, Sch. Med., Univ. Wisconsin, Madison, Wisconsin Epidemiology and physio-pathology of farmer's lung
Arch Environ Health 10, (No 2):278, Feb 65. Agricultural dusts and diffuse pulmonary fibrosis.
Proc Air Pollut Med Res 7th Ann Conf, Los Angeles, Calif, Feb 64. Agricultural dusts as a cause of diffuse pulmonary fibrosis.
Proc Soc Exp Biol Med 118, (No 2):546, Feb 65. The pathogenicity of specific glycopeptide antigens in farmers lung.
Recent Advances in the Medical Aspects of Smoking, Mathew Publ Co, New York, p. 24, 64. The effects of smoking on pulmonary function.

OH-00047-12 NTN CHISOLM, J. JULIAN, Jr., Johns Hopkins Hosp., Baltimore, Md. The biochemical effects of lead poisoning

OH-00048-9 AFY BELDING, HARWOOD S., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa. Evaluation of stresses of exposure to heat
Fed Proc 24:346, 65. Predictability of physiological responses by addition of metabolism and heat stress from the environment.
Physiologist 7:158, 64. Factors in acclimatization to wet heat.

OH-00051-8 ESE SCHUMAN, LEONARD M., Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn. Human poisoning by inhalation of silage gases
Agron J 57:65, 65. Nitrogen dioxide production from silage. II. Detailed field survey.
Arch Environ Health 7:13, Jul 63. Nitrogen dioxide poisoning. I. Occupational significance and evaluation of toxicologic data and experimental methodology.

Arch Environ Health 7:16, Jul 63. Nitrogen dioxide poisoning. II. A new approach to experimental exposure studies: Methodology using a static system, with statistical evaluation of factor variability.

OH-00055-7 ESE ELKINS, HERVEY B., Mass. Dept. Labor, Industries, Boston, Mass. Factors affecting the excretion of industrial poisons

OH-00056-6 CMS STEWART, KENNETH C., Grad. Sch., Univ. Pittsburgh, Pittsburgh, Pa. Industrial noise and speech discrimination abilities

OH-00057-6 PHY ALTSHULER, BERNARD, New York Univ. Med. Cr., New York, N.Y. Intrapulmonary distribution of gases and aerosols

OH-00061-6 ESE GOLDWATER, LEONARD J., Sch. Pub. Hlth., Admin. Med., Columbia Univ., N.Y.C. Absorption and excretion of mercury in man
Arch Environ Health 9:61, Jul 64. Absorption and excretion of mercury in man. V. Toxicity of phenylmercurials.
Arch Environ Health 9:454, Oct 64. Absorption and excretion of mercury in man. VI. Significance of mercury in urine.
Arch Environ Health 9:735, Dec 64. Absorption and excretion of mercury in man. VII. Significance of mercury in blood.
Food Technol 15, (No 8):357, 61. Ultramicrodetermination of mercury in apples.
J Occup Med 6, (No 5):227, May 64. Acute exposure to phenylmercuric acetate.
J Occup Med 6, (No 8):335, Aug 64. Mercury exposure in a chlorine plant.

OH-00064-6 TOX GRIGGS, ROBERT C., Metropolitan Gen. Hosp., Cleveland, Ohio Studies concerning lead intoxication
Acta Med Yugoslav 16,(No 3-4):347, 62. Investigation of chronic endemic nephropathy in Yugoslavia. I. Lead as a possible etiologic agent.
Progr Hemat 4:117, 64. Lead poisoning: Hematologic aspects.

OH-00067-5 ESE FERRIS, BENJAMIN G., Jr., Sch. Pub. Hlth., Harvard Univ., Boston, Mass. Respiratory disease and environmental exposures
Am J Pub Health 54:1856, 64. Smoking and respiratory disease.
Am Rev Resp Dis 90:877, 64. Levels of air pollution and respiratory disease in Berlin, New Hampshire.
Am Rev Resp Dis 91:252, 65. Prediction values for screening tests of pulmonary function.
Arch Environ Health 10:307, 65. Air pollution levels and chronic respiratory disease.
Brit Med J 2:1487, 64. An Anglo-American comparison of the prevalence of bronchitis.
Proc Roy Soc Med 57:979, 64. Epidemiological studies related to air pollution: A comparison of Berlin, New Hampshire and Chilliwack, British Columbia.

OH-00070-4 PATH JENKINS, DANIEL E., Col. Med., Baylor Univ., Houston, Tex. Influence of environmental factors on lung morphology
Am J Roentgen 92:521, 64. Pulmonary cavitation in Wegener's granulomatosis.
Am Rev Resp Dis 90:67, 64. Coexistence of carcinoma and tuberculosis of the lung.

OH-00079-3 TOX GOLDWATER, LEONARD J., Sch. Pub. Hlth., Admin. Med., Columbia Univ., N.Y.C. Normal content of metals in biological materials

OH-00082-4 PET HAMMOND, PAUL B., Col. Vet. Med., Univ. Minnesota, St. Paul, Minn. Studies of lead chelation in rats
J Pharmacol Exp Ther 146:241, 64. The effect of two chelating agents on the distribution and excretion of lead.

OH-00084-4 PATH FREEMAN, GUSTAVE, Stanford Res. Inst., Menlo Park, California Biological sequelae of chronic exposure to nitrogen dioxide
Science 137, (No 3532):754, Sep 62. Electron spin resonance of nitric oxide-hemoglobin complexes in solution.

OH-00091-8 HSR MORRIS, WILFORD H.M., Purdue Univ., Lafayette, Ind. Status and rehabilitation of the farm cardiac

OH-00094-7 ESE PENNEY, GAYLORD W., Carnegie Inst., Pittsburgh, Pa. The dust layer and precipitator efficiency

OH-00099-4 TOX CORNISH, HERBERT H., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich. Occupational hazards of aminoethanols

OH-00100-3 ESE FRANK, NEDD R., Sch. Public Hlth., Harvard Univ., Boston, Mass. Radioautography in localization of inhaled particles
Proc Roy Soc Med 57, (No 10):1029, Oct 64. Studies on the effects of acute exposure to sulphur dioxide in human subjects.

OH-00103-4 TOX RADFORD, EDWARD P., Jr., Sch. Pub. Hlth., Harvard Univ., Boston, Mass. Functional evaluation of chemical toxicity
Am J Physiol 207:821, 64. Circulating antidiuretic hormone in rats: Effects of dietary electrolytes and protein.
Anesthesiology 25:479, 64. Effects of ionizing radiation and their importance in anesthesiology.
Science 143:247, 64. Polonium-210: A volatile radioelement in cigarettes.
Aging of the Lung, Harper Row, New York, 64. Static mechanical properties of lungs.

OH-00108-4 GM KLIGMAN, ALBERT M., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa. Effect of environment on human cutaneous irritation

OH-00110-4 PHY ALBERT, ROY E., New York Univ. Med. Cr., New York, N.Y. Pulmonary deposition and clearance of dust in man
Health Phys 10:933, 64. Fabrication of monodisperse lucite and iron oxide particles with a spinning disk generator.

OH-00114-4 RAD BELL, ROBERT F., Sch. Med., Univ. Colorado, Med. Cr., Denver, Colo. PB210 EDTA excretion as an index of radon dose to man
Radiological Health and Safety in Mining and Milling of Nuclear Materials, Proc Sympos IAEA, ILO and WHO, Vienna, 2:411, Aug 63. Urinary lead-210 as index of mine radon exposure.

OH-00115-3 TOX NAU, CARL A., Univ. Oklahoma Med. Cr., Oklahoma City, Okla. Occupational health hazards of rubber dust

OH-00117-3 TOX HEIMBERG, MURRAY, Sch. Med., Vanderbilt Univ., Nashville, Tenn. Effects of CC14 on isolated perfused rat liver
Biochem Pharmacol 12:385, 63. The action of norepinephrine on the transport of fatty acids and triglycerides by the isolated perfused rat liver.
Pharmacologist 4, (No 2), Fall 62. Hepatic triglyceride secretion and CC14 intoxication.
Pharmacologist. Fall 63. Hepatic lipid transport.
Pharmacologist 6, (No 2), Fall 64. The effect of L-epinephrine (E) on incorporation of palmitate-1-C14 into liver and serum triglycerides.

OH-00118-3 GM GOLDMAN, LEON, Cincinnati Gen. Hosp., Cincinnati, Ohio Environmental health studies on optical masers
Acta Dermatovener (Stockholm), 44:68, 64. Chromosome studies in dermatology: Preliminary observations in some congenital and acquired dermatoses and in the effect of radiations with x-ray, grenz ray and laser.
Acta Dermatovener (Stockholm) 44:264, 64. The effect of repeated exposures to laser beams.
Arch Derm 90:71, Jul 64. Impact of the laser on nevi and melanomas.
J Invest Derm 42, (No 3):247, Mar 64. Effect of the laser beam on the skin. III. Exposure of cytological preparations.
JAMA 188, (No 3):302, Apr 64. The biomedical aspects of lasers.
JAMA 189:773, Sep 64. Treatment of basal cell epithelioma by laser radiation.
Nature 203:417, Jul 64. Impact of the laser on dental caries.

OH-00121-3 NTN ROUSH, GEORGE, Jr., Col. Med., Univ. Cincinnati, Cincinnati, Ohio The metabolism of certain trace metals

OH-00124-3 TOX LEIBMAN, KENNETH C., Col. Med., Univ. Florida, Gainesville, Fla. Metabolism of trichloroethylene

OH-00130-3 ESE ORR, CLYDE, Jr., Georgia Inst. Tech., Atlanta, Ga. Particle dynamics in inertial fields

OH-00132-3 PATH GROSS, PAUL, Mellon Inst. Ind. Res., Pittsburgh, Pa. Asbestosis and metaplasia of tracheal epithelium

OH-00137-2 GM SUSKIND, RAYMOND R., Sch. Med., Univ. Oregon, Portland, Ore. The effects of environmental factors on occupational dermatitis

OH-00140-3 PMY TEICHNER, WARREN H., Grad. Sch., Univ. Massachusetts, Amherst, Mass. Psychophysiological approach to toxicity testing

OH-00143-3 AI VIGLIANI, ENRICO C., Sch. Med., Univ. Milano, Milan, Italy Inhalation of endotoxins as a cause of occupational diseases
Proc 16th Int Congr Occupational Health, Madrid, p. 693, Sep 63. The endotoxin content of vegetable dusts.

OH-00144-2 ESE SUGGS, CHARLES W., Sch. Agr., North Carolina State Col., Raleigh, N.C. Effect of environment on performance and workloads
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Publications received from terminated OH projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

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RH-00312-2 RAD BEAM, CARL A., Grad. Sch., Brooklyn Col., Brooklyn, N.Y. Factors affecting radiosensitivity in microorganisms

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RH-00321-2 RAD KUNTZ, ROBERT R., Sch. Arts, Sci., Univ. Missouri, Columbia, Mo. Studies in radiation protection

RH-00322-2 ESE SHAPIRO, MAURICE A., Grad. Sch. Pub. Health, Univ. Pittsburgh, Pittsburgh, Pa. Sorption of heavy metal radionuclides by minerals

RH-00324-2 MC WITIAK, DONALD T., Col. Pharm., State Univ. Iowa, Iowa City, Iowa Aminothioimides as radiation-protective agents

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RH-00326-1 RAD BRAYER, FRANKLIN T., Georgetown Univ. Med. Cr., Washington, D.C. A study of the threshold dose of x-rays

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RH-00330-1 HED HUPP, EUGENE W., Texas AM Univ., College Station, Texas Low level gamma radiation and physiological performance

RH-00334-1 RAD YOUNG, ELLEN A., Univ. Arkansas Med. Cr., Little Rock, Ark. Effect of radiation on amino acid transport

RH-00340-1 RAD EPP, EDWARD R., Sloan-Kettering Inst. for Cancer Res., N.Y.C. Reactive lifetime studies in irradiated cells

RH-00343-1 DEN GUZMAN, CESAR A., Eastman Dental Disp., Rochester, N.Y. Strontium 90 effects on pulp and developing teeth

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RH-00347-7 RAD McQUADE, HENRY A., Sch. Med., Univ. Missouri, Columbia, Mo. Radiation effects of thymidine-tritium

RH-00354-1 NTN CREGER, CLARENCE R., Col. Agr., Texas AM Univ., College Station, Tex. The metabolism of radiostrontium

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RH-00358-1 RAD CHIPAULT, JACQUES R., Hormel Inst., Austin, Minn. Effects of high energy radiations on lipids

RH-00361-1 RAD FINE, SAMUEL, Col. Eng., Northeastern Univ., Boston, Mass. Effects and hazards of high peak power lasers

RH-00366-4 RAD WELLER, RICHARD I., Franklin and Marshall Col., Lancaster, Pa. Environmental radioactivity
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RH-00367-2 RAD CASTER, WILLIAM O., Sch. Home Ec., Univ. Georgia, Athens, Ga. Biological mechanisms of radiation damage

RH-00369-2 SSE HEMPHILL, LOUIS, Col. Eng., Univ. Missouri, Columbia, Mo. Radioactivity in bottom sediments

RH-00373-1 NTN CALLOWAY, DORIS H., Univ. California, Berkeley, Cal. Characterization of radioprotective factor in alfalfa

RH-00390-1 GM FORBES, P. DONALD, Barrington Col., Barrington, R.I. Effects of aging and radiation on Haarscheibe pigment
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RH-00392-1 BBC FORBES, WILLIAM F., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y. Effect of radiation on proteins and related compounds

RH-00403-1 AI SHAW, DON H., Carver Res. Fdn., Tuskegee Institute, Ala. Immunogenetic study of radiation bone marrow therapy

RH-00404-1 COM HOWARTH, JOHN L., Univ. New Mexico, Albuquerque, New Mexico Digital computing techniques in radiological problems

RH-00412-1 SSS SAX, N. IRVING, New York State Dept. Hlth., Albany, N.Y. Microclimatology and ecology study via radiotracers

Publications received from terminated RH projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

OFFICE OF INTERNATIONAL RESEARCH

TW-00025-3 IFRP KORC, ISRAEL, Sch. Med., Universidad de la Republica, Montevideo, Uruguay Biochemical studies on normal and cataractous lenses

TW-00030-3 NSS MALMENDIER, CLAUDE L., Sch. Med., Univ. Brussels, Brussels, Belgium Lipid metabolism in nephrotic patients

TW-00032-3 IFRP DEBERSAQUES, JEAN P., Sch. Med., Univ. Gent, Gent, Belgium Study of keratinization

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WP-00750-1	TOX	TORGESON, DEWAYNE C., Boyce Thompson Inst. Plant Res., Yonkers, N.Y. Interaction of herbicides and soil microorganisms
WP-00751-1	TOX	CHESTERS, GORDON, Col. Agr., Univ. Wisconsin, Madison, Wis. Herbicide removal processes in soil
WP-00755-1	ESE	CONOVER, JOHN T., Grad. Sch. Oceanography, Univ. Rhode Island, Kingston, R.I. Effects of pollution on benthic marine plant communities
WP-00757-1	ESE	SMERDON, ERNEST T., Water Resources Inst., Texas A and M Univ., College Station, Tex. Water pollution from eroded sediments
WP-00760-1	ESE	KIRSCH EDWIN J., Sch. Civil Eng., Purdue Univ., Lafayette, Ind. Microbial interactions in waste treatment processes
WP-00762-1	SSS	TIBBY, RICHARD B., Allan Hancock Fdn., Univ. So. California, Los Angeles, Cal. Ultraviolet absorption in coastal waters
WP-00764-1	ESE	McGAUHEY, PERCY H., Col. Eng., Univ. California, Richmond, Cal. Soil mantle as a wastewater treatment system
WP-00768-1	TOX	NEUHOLD, JOHN M., Sch. Grad. Studies, Utah State Univ., Logan, Utah Halide water quality toxicity effects on fish
WP-00771-1	ESE	SHAPIRO, JOSEPH, Univ. Minnesota, Minneapolis, Minn. Inorganic-organic interactions in natural waters
WP-00772-1	ESE	BRUSH, LUCIEN M., Jr., Sch. Eng., Applied Sci., Princeton Univ., Princeton, N.J. Inertial effects in turbulent suspensions
WP-00780-1	SSS	HANAN, JOE J., Col. Agr., Colorado State Univ., Fort Collins, Colo. Irrigation regimes for water conservation
WP-00782-1	ESE	JACKSON, DANIEL F., Col. Eng., Syracuse Univ., Syracuse, N.Y. Ecology of Cladophora glomerata and Cladophora fracta
WP-00783-1	ESE	BIER, MILAN, Col. Agr., Univ. Arizona, Tucson, Ariz. Water purification by large scale electrophoresis
WP-00785-1	ESE	SILVEY, JOSEPH K., Col. Arts, Sci., North Texas State Univ., Denton, Tex. Naturally occuring tastes and odors in water supplies
WP-00786-1	ESE	GAUDY, ANTHONY F., Jr., Sch. Civil Eng., Oklahoma State Univ., Stillwater, Okla. Metabolic control mechanisms in biological treatment
WP-00787-1	ESE	JENKINS, DAVID, Col. Eng., Univ. California, Berkeley, Cal. Transient loading effects in the activated sludge process
WP-00788-1	ESE	WEST, PHILIP W., Col. Chem., Physics, Louisiana State Univ., Baton Rouge, La. Sampling and determining traces of silver in waters
WP-00791-1	ESE	JELLINEK, H.H.G., Clarkson Col. Tech., Potsdam, N.Y. Photodegradation of polymers in aqueous solutions
WP-00792-1	ESE	DURHAM, LEONARD, Eastern Illinois Univ., Charleston, Ill. Recovery of a stream system from cyanide poisoning
WP-00793-1	TOX	DUGAN, PATRICK R., Col. Arts, Sci., Ohio State Univ., Columbus, Ohio Fish susceptibility to pesticides and detergents
WP-00794-1	SSS	NOBLE, VINCENT E., Inst. Sci., Tech., Univ. Michigan, Ann Arbor, Mich. Vertical current structure in the Great Lakes
WP-00796-1	ESE	ANDERSON, ALVIN G., St. Anthony Falls Hydraulic Lab., Univ. Minnesota, Minneapolis, Minn. Flow conditions in soils and filters
WP-00801-1	ESE	EWING, BEN B., Col. Eng., Univ. Illinois, Urbana, Ill. Organo clay adsorptive reactions and water coagulation
WP-00803-1	SSS	ENGLISH, THOMAS S., Grad. Sch., Univ. Washington, Seattle, Wash. Distribution of demersal fishes in inshore waters
WP-00805-11	BM	SILVEY, JOSEPH K.G., North Texas State Univ., Denton, Texas Metabolism of the aquatic actinomycetes
WP-00812-1	ESE	McLAUGHLIN, RONALD T., Sch. Eng., Massachusetts Inst. Technology, Cambridge, Mass. Optimal design of sewer and drainage systems
WP-00814-1	ESE	LEMLICH, ROBERT, Grad Sch., Univ. Cincinnati, Cincinnati, Ohio Non-foaming bubble fractionation
WP-00815-1	ESE	MATIJEVIC, EGON, Clarkson Col. Tech., Potsdam, N.Y. Flocculation of colloids suspended in water
WP-00823-1	ESE	SCHROEDER, HERBERT A., Oregon State Univ., Corvallis, Ore. Lignin sulfonates in pulp mill effluents
WP-00828-1	SSS	OLSON, THEODORE A., Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn. Lake Superior periphyton in relation to water quality
WP-00830-1	ESE	PEARSON, ERMAN A., Col. Eng., Univ. California, Berkeley, Cal. UCB-Eng-2148 Reaction kinetics of anaerobic fermentation systems
WP-00834-1	ESE	BRATER, ERNEST F., Col. Eng., Univ. Michigan, Ann Arbor, Mich. Rainfall-runoff relations on urban and rural areas
WP-00844-1	BM	SCARPINO, PASQUALE V., Col. Eng., Univ. Cincinnati, Cincinnati, Ohio Factors influencing survival of bacteria in sea water
WP-00845-1	ESE	MORGAN, JAMES J., Col. Eng., Univ. Florida, Gainesville, Fla. Flocculation behavior of dilute clay-polymer systems
WP-00850-1	ESE	TRAINOR, FRANCIS R., Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn. A study of Scenedesmus species in culture
WP-00853-1	ESE	BROWN, LEE F., Col. Eng., Univ. Colorado, Boulder, Colo. The effect of porous structure on carbon activation
WP-00854-1	ESE	SPARKS, ROBERT E., Case Inst. Tech., Cleveland, Ohio Emulsion breaking by coalescence on adsorbed films
WP-00857-1	ESE	BLUM, JOHN L., Col. Letters, Sci., Univ. Wisconsin, Milwaukee, Wis. Response of tolerant organisms to specific pollutants
WP-00860-1	NSS	FAUST, SAMUEL D., Rutgers Univ., New Brunswick, N.J. Principles and applications of water chemistry--Conference
WP-00871-1	ESE	FISHER, GERALD T., Sch. Eng., Vanderbilt Univ., Nashville, Tenn. Oxygen absorption in organic-aqueous mixtures
WP-00898-1	NSS	GUNNING, GERALD E., Ecological Soc. of America, New Orleans, La. Travel request U.S. participants to XVI. ICL. Poland
WP-00899-1	NSS	STUMM, WERNER, Grad. Sch. Arts, Sci., Harvard Univ., Cambridge, Mass. Symposium on concepts in water analysis
WP-00900-1	NSS	HOOD, DONALD W., Col. Arts, Sci., Texas AM Univ., College Station, Tex. Conference on pollution and marine ecology
WP-00902-1	SSS	GREENFIELD, LEONARD J., Univ. Miami, Miami, Fla. Contribution of microbial calcification to sediments
WP-00903-4	SSS	PARKER, RICHARD A., Grad. Sch., Washington State Univ., Pullman, Wash. Some aspects of microcrustacean phosphate metabolism
WP-00914-1	ESE	WARD, JOHN C., Col. Eng., Colorado State Univ., Fort Collins, Col. Turbulent flow in porous media

Publications received from terminated WP projects are listed in grant number sequence on the yellow pages at the end of this Appendix.

PUBLICATIONS RECEIVED FROM TERMINATED PROJECTS

GRANT NO.	REVIEW GROUP	INVESTIGATOR, PROJECT TITLE, AND PUBLICATIONS
ACCIDENT PREVENTION		
AC-00003-4	APR	KRAFT, M.A., Flight Safety Fdn., N.Y.C. Aviation crash injury research Aerospace Med 35, (No 5):472, May 64. Injury reduction trends in agricultural aviation. J Eng Psychol 3, (No 1):23, Jan 64. Judgment of volume reduction in distorted metal container.
AC-00020-3	APR	FORNEY, ROBERT B., Sch. Med., Indiana Univ., Bloomington, Ind. Driving behavior as affected by alcohol Arch Int Pharmacodyn 150, (No 1-2):171, Jul 64. Effect of tranquilizers on the metabolism of ethanol. Arch Int Pharmacodyn 151, (No 3-4):466, Oct 64. Plasma free fatty acids in rats after shock as modified by centrally active drugs. Percept Motor Skills 19:151, 64. Measurement of attentive motor performance after alcohol. Psychopharmacologia 6:234, 64. Dextro-amphetamine, ethanol and dextro-amphetamine- ethanol combinations on performance of human subjects stressed with delayed auditory feedback (DAF). Quart J Stud Alcohol 25, (No 2):205, Jun 64. Alcohol distribution in the vascular system. Concentration of orally administered alcohol in blood from various points in the vascular system, and in rebreathed air, during absorption.
AC-00056-4	APR	SCHLESINGER, E.R., Health Research, Inc., Albany Rockland County Child Injury Prevention Project Am J Dis Child 107:618, Jun 64. Medically attended injuries among young children. Observations in a suburban area.
AC-00092-2	APR	GALIPAULT, JOHN B., Sch. Aviation, Ohio state Univ., Columbus, Ohio Man-machine compatibility in the very low-altitude flight regime Aerial Applicator 2, (No 4):4, Apr 64. Project leapfrog. Aerial Applicator 2, (No 5):4, May 64. Effects of C. G. position on performance. Aerial Applicator 2, (No 6):4, Jun 64. Factors determining aircraft pitch rate. Aerial Applicator 2, (No 8):12, Aug 64. The combined factors on obstruction avoidance.
ALLERGY AND INFECTIOUS DISEASES		
AI-00135-14	VR	BANG, FREDERICK B., Sch. Hygiene & Pub. Hlth., Johns Hopkins Univ., Baltimore, Md. Cell virus relationships in respiratory mucoses Am J Hyg 79, (No 3):260, May 64. Interaction of respiratory epithelium of the chick and Newcastle disease virus. J Insect Path 6, (No 4):457, Dec 64. In vitro studies of the antibacterial activity of Golfingia gouldii (Pourtales) coelomic fluid.
AI-00199-8	PET	DOULL, J.A., Leonard Wood Mem., Wash., D.C. Clinical evaluation studies in leprosy Int J Leprosy 32, (No 2):168, 64. Clinical evaluation studies of the Leonard Wood memorial.
AI-00509-10	PET	SCHMIDT, L.H., Christ Hosp., Cincinnati, Ohio Chemotherapy of tuberculosis Am Rev Resp Dis 91, (No 2):225, Feb 65. A comparison of fluorometric and microbiologic procedures for measuring isoniazid in serum.
AI-00795-9	TMP	GOODCHILD, CHAUCEY G., Grad. Sch., Emory Univ., Atlanta, Ga. Parasites in normal and abnormal habitats Medicine 43, (No 6):679, Nov 64. Notes on vitamin B12 absorption; autoimmunity and childhood pernicious anemia; relation of intrinsic factor to blood group substance.
AI-00882-7	BM	SCHERAGO, MORRIS, Grad. Sch., Univ. Kentucky, Lexington, Ky. Leukocytes and microorganisms Am Rev Resp Dis 87, (No 5):739, May 63. The effect of PPD on the in vitro migration of leukocytes from guinea pigs passively sensitized to OT. Bact Proc, 63. The effect of culture filtrates of heterologous microorganisms on the in vitro migration of leukocytes from tuberculous guinea pigs. Bact Proc, 63. Effect of cortisone on the migration of leukocytes from tuberculous guinea pigs in the presence of PPD. Bact Proc, 63. In vitro leukocytic hypersensitivity in experimental streptococcal infection. Bact Proc, 63. The effect of tuberculin on the in vitro migration of leukocytes from tuberculous patients following chemotherapy. Bact Proc, 63. Uptake of fluorescein-labeled PPD by leukocytes from normal and tuberculous guinea pigs.
AI-01003-9	BIO	WOOD, HARLAND G., Sch. Med., Western Reserve Univ., Cleveland, Ohio Metabolism of propionic acid bacteria Ann NY Acad Sci 112:661, Apr 64. Metabolism of methylmalonyl-CoA and the role of biotin and B12 coenzymes. Arch Biochem 105, (No 3):494, Jun 64. Biocytin as a constituent of methylmalonyl-oxaloacetic transcarboxylase and propionyl CoA carboxylase of bacterial origin. J Bact 87, (No 1):171, Jan 64. Purification and properties of enzymes involved in the propionic acid fermentation. J Biol Chem 239, (No 8):2562, Aug 64. Methylmalonyl isomerase. IV. Purification and properties of the enzyme from propionibacteria.
AI-01067-8	BIO	STARR, M.P., Grad. Sch., U. California, Davis Metabolism of phytopathogenic bacteria Phytopath Z 51:394, 64. Taxonomic clarification of Xanthomonas vesicatoria based upon host specificity, bacteriophage sensitivity, and cultural characteristics. Phytopath Z 51:442, 64. Bacteriophage reactions and speciation of phytopathogenic xanthomonads.
AI-01075-1	VR	ROBBINS, FREDERICK C., Sch. Med., Western Reserve Univ., Cleveland, Ohio Studies in respiratory diseases of childhood Pediatrics 4, (No 4):541, Apr 64. The role of antibody to cow's milk proteins in the sudden death syndrome.
AI-01088-8	TMP	GUTTMAN, HELENE N., Haskins Lab., N.Y.C. Nutrition of trypanosomidae of insects Exp Parasit 13:129, 63. Experimental glimpses at the lower Trypanosomidae. J Protozool 10:109, 63. Catalase in insect trypanosomids. Analytical Microbiology, Academic Press, New York, p. 527, 63. Assay of vitamin B12 and congeners. The Protozoa, Academic Press, New York, p. 460, 64. Nutrition and physiology of the Trypanosomatidae. Pteridine Chemistry, Pergamon Press, Oxford, p. 255, 64. The Crithidia assay for unconjugated pteridines. Pteridine Chemistry, Pergamon Press, New York, p. 292, 324, 375, 426, 64. Discussions on various phases of pteridine biochemistry.
AI-01137-8	BM	BRAUN, WERNER, Grad. Sch., Rutgers Univ., New Brunswick, N.J. Population changes of bacterial pathogens J Bact 87, (No 4):972, Apr 64. Influence of polyanions on growth and deoxyribonucleic acid synthesis of Diplococcus pneumoniae. J Bact 87, (No 5):1067, May 64. Analysis of sequential stages in serum bactericidal reactions. J Bact 87, (No 5):1245, May 64. Inhibitors of preferentially stimulated deoxyribonucleic acid synthesis in pneumococci. Proc Conf Global Impacts of Appl Microbiol, Stockholm, Aug 63. Perspectives and horizons in microbial genetics. Proc Soc Exp Biol Med 116:80, 64. Comparison of bactericidal and hemolytic serum systems. I. Inhibitory effects of normal human serum fractions.
AI-01263-7	AI	PIERCE, W.A., Jr., Sch. Med., Tulane U., New Orleans, La. Group A streptococcal antigens J Bact 87, (No 2):311, Feb 64. In vitro phagocytosis of Staphylococcus aureus with special reference to a possible antiphagocytic function of coagulase. J Bact 88, (No 4):912, Oct 64. Electrophoretic separation of constituents of partially purified M protein of Streptococcus pyogenes. Proc Soc Exp Biol Med 106:207, 61. A study of bentonite flocculation test for measurement of type-specific steptococcal antibodies. Texas Rep Biol Med 21, (No 1):1, Spring 63. Behavior of concentrated staphylococcal coagulase preparations in immuno-diffusion tests.

AI-01273-7 TMP BECK, D.E., Col. Bio. & Agr. Sci., Brigham Young U., Provo, Utah Life history studies of ixodid ticks
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Brigham Young Univ Sci Bull, Biol Ser 2, (Parts 2 and 3, No 3):1, 63. Hard-bodied ticks of the Western United States.
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AI-01284-4 PC VISHNIAC, W., Yale Univ., New Haven, Connecticut. Intermediary metabolism of autotrophic microorganisms
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AI-01415-13 GEN FANGUY, ROY C., Texas AM Col., College Station, Texas Cellular antigens, disease and physiological fitness
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AI-01433-8 CB STEWART, PETER A., Emory Univ., Atlanta, Ga. Kinematics of protoplasmic streaming
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Science 144:560, 64. Properties of mitochondrial contractile protein and actomyosin of heart muscle.
Primitive Motile Systems in Cell Biology, Academic Press, New York, p. 69, 64. The organization of movement in slime mold plasmodia.

AI-01452-8 CB GREGG, JAMES H., Col. Arts, Sci., Univ. Florida, Gainesville, Fla. Antigens of cellular slime molds during morphogenesis
Develop Biol 9, (No 3):314, Jun 64. Multiple forms of enzymes in a cellular slime mold during morphogenesis.
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AI-01518-6 GEN MILES, P.G., U. Buffalo, N.Y. Heterokaryons, mutations and nuclear migration in fungi
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AI-01531-7 GEN DULBECCO, R., Cal. Inst. Tech., Pasadena Study of function of cellular and viral genes
J Cell Comp Physiol 64, (No 2, Suppl 1):181, Oct 64. Summary of 1964 biology research conference.
JAMA 190:721, Nov 64. Transformation of cells in vitro by DNA-containing viruses.
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AI-01583-7 TMP VOGE, M., Sch. Med., U. California, Los Angeles, Larval development of cestodes
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AI-01672-6 BIO ERLANGER, B.F., Sch. Med., Columbia Univ., N.Y.C. Characterization of ornithine peptidases
Biochemistry 3:1880, 64. On the heterogeneity of three-times-crystallized α-chymotrypsin.

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Proc Soc Exp Biol Med 118:698, 65. A stable human cell line as a host system for Sendai virus.
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AI-01693-7 TMP VON BONSDORFF, BERTEL, Sch. Med., Maria Hosp., Helsingfors, Finland Vitamin B12 deficiency in tapeworm infestation
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AI-01759-6 AI CLUFF, L.E., Sch. Med., Johns Hopkins Univ., Baltimore Drug hypersensitivity
New Eng J Med 271:1333, Dec 64. Studies of the epidemiology of staphylococcal infection. VIII. Seasonal variation.

AI-01796-4 AI SEIGEL, B.B., Jewish Hospital Brooklyn, New York Studies in penicillin hypersensitiveness
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AI-02047-5 PATH DAVIS, J.W., Sch. Agr., Va. Polytechnic Inst., Blacksburg Pathologic physiology of porcine edema disease
Am J Vet Res 24, (No 99):324, Mar 63. Studies on hemolytic Escherichia coli associated with edema disease of swine. III. The effect of hemolytic and nonhemolytic Escherichia coli endotoxin on the blood of swine.

AI-02048-6 PATH DANNENBERG, ARTHUR M., Jr., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa. Histochemical studies on experimental tuberculosis
Arch Path 76:581, Nov 63. Hydrolases of mononuclear exudate cells and tuberculosis.

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AI-02064-5 GM SANFORD, J.P., U. Texas Southwestern Medical Sch., Dallas Pathogenesis of chronic pyelonephritis

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AI-02173-7 GEN BAYLOR, MARTHA B., Marine Biological Lab., Woods Hole, Mass. Genetic analysis of gene dosage effect

Genetics 51, (No 3):351, Mar 65. The circular linkage map of bacteriophage T2H.

AI-02174-5 BM DENTON, J.F., Med. C. Georgia, Augusta Epidemiology of blastomycosis

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AI-02309-6 AI WEISS, DAVID W., Col. Letters and Sci., U. California, Berkeley, Cal. Specific and non-specific immunity

Cancer Res 24, (No 4):732, May 64. Acquisition of heightened resistance and susceptibility to spontaneous mouse mammary carcinomas in the original host.

AI-02326-4 GEN OLIVE, L.S., Columbia Univ., N.Y.C. Genetics of homothallic fungi

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APPENDIX I

NOTE

The following alphabetical list (pages 1930-1940) gives abbreviated titles for all sources of publications, such as journals, proceedings, books, etc., used by grantee scientists to publish findings from research projects supported by the Public Health Service, together with the total number of articles reported by the scientists for each source during one year. It includes 25,210 entries from a total of 2,682 sources, including books (682 in number), which are shown separately (pages 1938-1942). A book or a chapter in a book were each counted as a single entry.

A second list (page 1942) shows the most frequently cited journals ranked in descending order by the number of citations in each.

Lastly, the totals for published articles arranged according to supporting Institute or Division, and by date of publication, are given in a summary table (page 1943). The totals for each year include only publications that the scientists reported to the Division of Research Grants during the one year period in which bibliographic information was compiled for this Index. Earlier as well as later editions should be consulted for additional data on publications for any given year.

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APPENDIX I

SOURCES OF PUBLICATIONS LISTED IN THIS APPENDIX

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ABBOTTEMPO PARIS	2
ABHANDL DEUTSCH AKAD WISSENSCHAFT BERLIN KLASSE ME	1
ACAD MED NEW JERSEY BULL	1
ACAROLOGIA	7
ACCAD NAZ LINCEI	4
ACTA AGRIC SCAND	1
ACTA ANAESTH SCAND	3
ACTA ANAT	10
ACTA ANAT NIPPON	1
ACTA BIOCHEM	1
ACTA CARDIOL	2
ACTA CHEM SCAND	6
ACTA CHIR PLAST PRAHA	1
ACTA CHIR SCAND	3
ACTA CIENTIF VENEZ	2
ACTA CRYST	27
ACTA CYTOL	7
ACTA DERMATOVENER STOCKHOLM	3
ACTA EMBRYOL MORPHOL EXP PALERMO	3
ACTA ENDOCR	31
ACTA GENET BASEL	3
ACTA GENET MED ROMA	11
ACTA HAEMAT BASEL	6
ACTA HAEMAT JAP	5
ACTA HISTOCHEM	13
ACTA IMMUN	1
ACTA MED OKAYAMA	3
ACTA MED SCAND	18
ACTA MED VENEZ	1
ACTA MED YUGOSLAV	1
ACTA MORPH ACAD SCI HUNG	1
ACTA NEUROCHIR WIEN	1
ACTA NEUROL LAT AM	8
ACTA NEUROL SCAND	4
ACTA NEUROPATH BERLIN	6
ACTA NEUROPSYCHOL	3
ACTA NEUROVEG WIEN	2
ACTA OBSTET GYNAEC SCAND	1
ACTA ODONT SCAND	5
ACTA OPHTHAL	2
ACTA ORTHOP SCAND	2
ACTA OTOLARYNG	21
ACTA PAEDIAT	4
ACTA PATH MICROBIOL SCAND	3
ACTA PHARMACOL	7
ACTA PHYSIOL LAT AM	12
ACTA PHYSIOL PHARMACOL NEERL	3
ACTA PHYSIOL SCAND	13
ACTA PSYCHOL	9
ACTA RADIOL	4
ACTA RADIOL DIAGN STOCKHOLM	1
ACTA RHEUM SCAND	3
ACTA TUBERC SCAND	2
ACTA UN INT CANCR	39
ACTIV NERV SUP PRAHA	2
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AM DIABETES ASSN FORECAST	1
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J MISSISSIPPI ACAD SCI	1
J MISSISSIPPI MED ASSN	7
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J NEWARK BETH ISRAEL HOSP	1
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SYMPOSIUM ON BONE DYNAMICS	1
SYMPOSIUM ON THE EFFECTS OF LABOR ON THE FETUS	1
SYMPOSIUM ON THE ENVIRONMENTAL CHEMISTRY OF MARINE	1
SYMPOSIUM ON ESTROUS CYCLE CONTROL	1
SYMPOSIUM OF EXPERIMENTAL MARINE ECOLOGY	1
SYMPOSIUM ON LYMPHATIC TUMOURS IN AFRICA	1
SYMPOSIUM ON MEDICAL ASPECTS OF STRESS IN THE MILI	2
SYMPOSIUM ON THE MOLECULAR BASIS OF ANTIBODY FORMA	1
SYMPOSIUM ON THE NUCLEIC ACIDS	1
SYMPOSIUM ON THE PHYSIOLOGICAL EFFECTS OF HIGH ALT	3
SYMPOSIUM ON PROTEIN STRUCTURE	1
SYMPOSIUM ON RECENT DEVELOPMENTS IN RESEARCH METHO	1
SYMPOSIUM ON REGIONAL MATURATION OF THE NERVOUS SY	1
THE SYMPOSIUM ON REGULATION OF ENZYME ACTIVITY AND	1
SYMPOSIUM ON THE REMOTE EFFECT OF TUMORS ON THE NE	1
SYMPOSIUM ON STRUCTURE AND ACTIVITY OF ENZYMES	1
SYMPOSIUM ON SUDDEN DEATH	1
SYMPOSIUM ON TRANSMETHYLATION AND METHIONINE BIOSY	2
SYMPOSIUM ON USE AND DISUSE OF NEUROMUSCULAR FUNCT	1
SYNCHRONY IN CELL DIVISION AND GROWTH	3
SYNDROMES OF THE HEAD AND NECK	1
SYNGENEIC PREFERENCE AND ALLOGENEIC INHIBITION	1
TAXONOMIC BIOCHEMISTRY AND SEROLOGY	2
TECHNIQUES IN ENDOCRINE RESEARCH	2
TECHNIQUES IN EXPERIMENTAL VIROLOGY	1
THE TEMPOROMANDIBULAR JOINT	1
TERATOLOGY	1
TESTICULAR FEMINIZATION	1
TEXTBOOK OF CARDIOLOGY	1
TEXTBOOK OF PEDIATRIC SURGERY	1
TEXTBOOK OF PEDIATRICS	1
THE THEORY AND PRACTICE OF AUSCULTATION	7
THERAPY BY DESIGN	1
THERAPY WITH THE NEW PENICILLINS	1
THERMODYNAMICS OF SMALL SYSTEMS	1
THIRST	3
THIRST AND THE REGULATION OF BODY WATER	3
THE THYMUS	7
THE THYMUS IN IMMUNOBIOLOGY	3
THE THYROID	5
TICES PRACTICE OF MEDICINE	3
TISSUE CULTURE	1
TRANSACTIONS OF THE FIFTH MACY FOUNDATION CONFEREN	1
TRANSCELLULAR MEMBRANE POTENTIALS AND ION FLUXES	1
TRANSFER OF CALCIUM AND STRONTIUM ACROSS BIOLOGICA	1

TRANSMETHYLATION AND METHIONINE BIOSYNTHESIS	4
TRANSPLANTATION OF TISSUES AND CELLS	1
TRAUMATIC MEDICINE AND SURGERY FOR THE ATTORNEY	1
TREATMENT OF CANCER AND ALLIED DISEASES	2
TRIBUTE TO V A ENGELHARDT MOLECULAR BIOLOGY PROBLE	1
TRIMIPRAMINE A NEW ANTI-DEPRESSANT	3
TRYPTOPHAN METABOLISM A TAHASE AMINO ACID RESEARCH	1
TUMORS OF BONE AND SOFT TISSUE	1
TUMORS OF THE SKIN	2
TURPEYEV ESSAYS ON PHYSIOLOGICAL EVOLUTION	1
TWELFTH ANNUAL CONFERENCE OF THE MODEL REPORTING A	1
TWO INTERPRETATIONS OF A MARKOV MODEL FOR AVOIDANC	1
ULTRASOUND IN BIOLOGY AND MEDICINE	2
ULTRASOUND AS A DIAGNOSTIC AND SURGICAL TOOL	2
UNDERGRADUATE CAREER CHOICE	1
UNFINISHED TASKS IN THE BEHAVIORAL SCIENCES	2
URBAN AMERICA AND THE PLANNING OF MENTAL HEALTH SE	2
URODYNAMIC STUDIES IN DIAGNOSTIC UROLOGY	1
US CENSUS OF POPULATION 1960 WOMEN BY NUMBER CHILD	1
A USE FOR THE TECHNIQUES OF STRUCTURAL LINGUISTICS	1
VASCULAR ROENTGENOLOGY	1
VENTURES IN CRIMINOLOGY	2
VERTEBRATE EMBRYOLOGY A LABORATORY MANUAL	1
VIRUSES NUCLEIC ACIDS AND CANCER	2
VISUAL ADAPTATION	1
VITAMINS AND HORMONES	3
WE TEACH AND LEARN TOGETHER	1
THE WOMAN IN AMERICA	1
THE WORLD PROBLEM OF SALMONELLOSIS	1
YEARBOOK NAT SOC STUDY EDUC CHICAGO	1
YEARBOOK OF THE AMERICAN PHILOSOPHICAL SOCIETY	1
YEARBOOK OF SCIENCE AND TECHNOLOGY	3
YEARBOOK OF SURGERY	1
YEASTS IN LAKE MICHIGAN AND LAKE ERIE	1
YOUR FUTURE IN VETERINARY MEDICINE	1

Number of journals or other periodicals	2,000	
Number of articles published		23,820
Number of book titles listed	682	
Number of books (or contributions to books) published		1,390
Totals	2,682	25,210

APPENDIX I

JOURNALS MOST FREQUENTLY CITED IN THIS APPENDIX

(In Descending Order)

	No. Articles
FED PROC	1,255
J BIOL CHEM	542
PROC SOC EXP BIOL MED	533
BIOCHIM BIOPHYS ACTA	501
NATURE	479
SCIENCE	432
CLIN RES	361
AM J PHYSIOL	317
ANN NY ACAD SCI	289
J CLIN INVEST	279
J AM CHEM SOC	278
BIOCHEMISTRY	259
ENDOCRINOLOGY	247
ANAT REC	237
BIOCHEM BIOPHYS RES COMMUN	232
CIRCULATION	232
PROC NAT ACAD SCI	225
JAMA	219
J BACT	202
PROC INT CONGR BIOCHEM	201
ARCH BIOCHEM	177
J ORG CHEM	176
J CELL BIOL	174
J LAB CLIN MED	163
THESES	142
BACT PROC	141
J IMMUN	141
J CLIN ENDOCR	138
NEW ENG J MED	137
AM ZOOL	131
AM J OBSTET GYNEC	130
J MOLEC BIOL	130
CANCER RES	126
PHYSIOLOGIST	120
PROC AM ASSN CANCER RES	120
J EXP MED	115
J PHARMACOL EXP THER	111
VIROLOGY	111
CIRC RES	108
SURG FORUM	108
ANN INTERN MED	104
J DENT RES	97
J PEDIAT	96
GENETICS	95
J APPL PHYSIOL	94
AM J CARDIOL	92
J COMP PHYSIOL PSYCHOL	92
BLOOD	91
LANCET	91
PEDIATRICS	91
ANAL BIOCHEM	88
PROC AM CHEM SOC NAT MTG	88
ARCH PATH	86
J NAT CANCER INST	84
SURGERY	84
PSYCHONOM SCI	83
PSYCHOL REP	80
AM HEART J	79
AM J PATH	79
BIOCHEM J	79
ARCH SURG	78
EXP CELL RES	78
METABOLISM	78
GASTROENTEROLOGY	77
PERCEPT MOTOR SKILLS	77
J MED CHEM	76
LIFE SCI	76
PROC ENDOCR SOC ANN MTG	75
AM J MED	74
J DAIRY SCI	72
LAB INVEST	72
ARTHRITIS RHEUM	71
J PHARM SCI	70
SURG GYNEC OBSTET	70
ANN SURG	69
BIOCHEM PHARMACOL	69
J THORAC CARDIOV SURG	68
RADIAT RES	66
PHARMACOLOGIST	65
J PARASIT	64
CANCER	63
INVEST OPHTHAL	62
J INVEST DERM	62
J NUTR	62
ARCH OPHTHAL	61
TRANSPLANTATION	61
J HISTOCHEM CYTOCHEM	60
AM J MED SCI	58
ARCH INTERN MED	58
J EXP ZOOL	58
NEUROLOGY	58
EXP NEUROL	57
PROC CONGR INT SOC HEMAT	57
ELECTROENCEPH CLIN NEUROPHYSIOL	56
J LIPID RES	56
AM J DIS CHILD	55
ARCH NEUROL	54
J ULTRASTRUCT RES	54
BIOL BULL	53
DIABETES	51
MEDICINE	50
STEROIDS	50
AM J VET RES	48
J ABNORM SOC PSYCHOL	48
PROC BIOPHYS SOC ANN MTG	48
TEXAS REP BIOL MED	48
EXPERIENTIA	47
OBSTET GYNEC	47
PROC ENG BIOL MED ANN CONF	47
J EXP PSYCHOL	46
J AM OIL CHEM SOC	45
J GEN PHYSIOL	45
J CHEM PHYS	44
RADIOLOGY	44
TETRAHEDRON LETT NEW YORK	44
J CELL COMP PHYSIOL	42
J NEUROCHEM	42
J NEUROPHYSIOL	42
PHYTOPATHOLOGY	42
J EXP ANAL BEHAV	41
PROC SOC PEDIAT RES	41
TRANS AM SOC ARTIF INTERN ORGANS	41
AM J ANAT	40
ACTA UN INT CANCR	39
ANESTHESIOLOGY	39
CANCER CHEMOTHER REP	39
EXCERPTA MED INT CONGR SER	39
AM J OPHTHAL	38
AM REV RESP DIS	38
BULL NY ACAD MED	38
Z ZELLFORSCH	38
AM J ROENTGEN	37
ARCH GEN PSYCHIAT	37
J ECON ENTOM	37
ANAL CHEM	36
J ALLERG	36
J PHYS CHEM	36
J SURG RES	36
THROMB DIATH HAEMORRH	36
ARCH ENVIRON HEALTH	35
EXP MOLEC PATH	35
J FOOD SCI	35
J NERV MENT DIS	35
J PROTOZOOL	34
POULTRY SCI	34
AM J SURG	33
COMP BIOCHEM PHYSIOL	33
J COMP NEUROL	33
J NEUROPATH EXP NEUROL	33
J NUCL MED	33
PLANT PHYSIOL	33
PROGR BRAIN RES	33
AM J CLIN NUTR	32
J ACOUST SOC AM	32
J CHROMATOGR	32
VOX SANG	32
ACTA ENDOCR	31
AM J TROP MED	31
ANN ENTOM SOC AM	31
ARCH INT PHARMACODYN	31
ARCH ORAL BIOL	31
CLIN CHIM ACTA	31
AM J CLIN PATH	30
AM J HUM GENET	29
AM J MENT DEFIC	29
COLD SPRING HARBOR SYMPOS QUANT BIOL	29
J CHRONIC DIS	29
J GERONT	29
J HETEROCYCLIC CHEM	29
J PHYSIOL CITY UNSPECIFIED	29
POSTGRAD MED	29
PSYCHOPHARMACOLOGIA	29
CHILD DEVELOP	28
CLIN CHEM	28
J ATHEROSCLER RES	28
ACTA CRYST	27
NAT CANCER INST MONOGR	27
PROC INT CONGR PHYSIOL SCI	27
TETRAHEDRON OXFORD	27
AM J PSYCHIAT	26
BULL HOPKINS HOSP	26
DEVELOP BIOL	26
J ANIM SCI	26
J GEN MICROBIOL	26
AM J PUB HEALTH	25
AM PSYCHOL	25
PROC CONGR EUROP SOC HAEMAT	25
BIOPHYS J	24
J BONE JOINT SURG	24
ORAL SURG	24
PROC INT CONGR HISTOCHEM CYTOCHEM	24
PSYCHOSOM MED	24
BIOPOLYMERS	23
IMMUNOLOGY	23
J INFECT DIS	23
NEW YORK J MED	23
QUART J STUD ALCOHOL	23
ALABAMA J MED SCI	22
AM J BOT	22
INORGAN CHEM	22
J CONSULT PSYCHOL	22
MAYO CLIN PROC	22
ACTA OTOLARYNG	21
ANN OTOL	21
ARCH DERM	21
BRIT MED J	21
CLIN PHARMACOL THER	21
APPL MICROBIOL	20
BULL WHO	20
CANAD J BIOCHEM PHYSIOL	20
J AGRIC FOOD CHEM	20
J BIOCHEM TOKYO	20
PSYCHOL BULL	20
TRANS ASSN AM PHYSICIANS	20

DISTRIBUTION OF PUBLISHED ARTICLES ACCORDING TO SUPPORTING INSTITUTE OR DIVISION

Inst/Div	Year of Publication 1965	1964	1963	Other	Total
AC	3	22	2	1	28
AI	789	1,361	181	77	2,408
AM	1,727	2,701	321	169	4,918
AP	22	50	8	8	88
CA	715	2,023	272	154	3,164
CC	9	66	14	12	101
CD	2	27	7	3	39
CH	13	24	1		38
DE	161	254	31	16	462
DH	2	1			3
EF	45	191	45	20	301
ES	4	8			12
FR	229	367	31	2	629
GM	755	1,957	245	135	3,092
HD	368	715	64	51	1,198
HE	1,028	2,726	331	119	4,204
HM	3	2	1		6
MH	361	1,266	225	107	1,959
NB	480	1,479	180	134	2,273
NU	15	7	2		24
OH	12	53	7	6	78
RH	15	47	7	1	70
TW	2	4	2		8
WP	20	58	16	13	107
TOTALS	6,780	15,409	1,993	1,028	25,210*

*Compiled from reprints, progress reports, and bibliographical listings received during the period November 1964-October 1965.

Summary Listing of General Research Areas

Projects active in fiscal 1965 are listed in this section under their review groups as follows:

	Page
Accident Prevention Research	1946
Advisory Committee on Health Science Engineering and Biotechnology	1946
Advisory Committee on Primate Cells	1947
Allergy and Immunology	1947
Allergy and Infectious Diseases Training Committee	1960
Allergy and Infectious Diseases Program-Project Committee	1960
Applied Physiology	1961
Arthritis and Metabolic Diseases Program-Project Committee	1962
Arthritis Training Committee	1963
Bacteriology and Mycology	1963
Behavioral Sciences	1975
Behavioral Sciences Fellowship Panel	1978
Biochemistry	1979
Biophysics and Biophysical Chemistry	1993
Cancer Program-Project Committee	2007
Cancer Training Committee	2007
Cardiovascular	2007
Cell Biology	2021
Chemotherapy	2032
Child Health and Human Development Program-Project Committee	2038
Clinical Research Centers	2038
Committee on International Centers	2040
Communicative Disorder Research Training Committee	2040
Communicative Sciences	2040
Computer Research	2045
Construction Review Committees	2048
Dental	2048
Dental Program-Project Committee	2054
Dental Training Committee	2055
Endocrinology	2055
Environmental Sciences and Engineering	2069
Epidemiology and Disease Control	2076
Experimental Psychology	2077
General Medical Research Program-Project Committee	2086
General Medicine	2087
General Research Support	2097
Genetics	2101
Health Services Research	2112
Heart Program-Project Committee	2114
Heart Training Committee	2116
Hematology	2116
History of Life Sciences	2129
Hospital and Medical Facilities	2129
Human Ecology	2130
Human Embryology and Development	2133
International Fellowship Review Panels	2143
Medicinal Chemistry	2144
Mental Health	2157
Mental Health Program-Project Committee	2164
Mental Health Project Grants Review Committee	2164
Mental Health Small Grants	2178
Mental Health Special Grants	2182
Metabolism	2182
Neurology	2197
Neurology and Blindness Program-Project Committee	2210
Nursing Research	2210
Nutrition	2211
Pathology	2221
Perinatal Review	2241
Pharmacology and Experimental Therapeutics	2241
Physiological Chemistry	2253
Physiology	2271
Primate Research	2284
Psychopharmacology	2285
Radiation	2292
Research Career Award Training Committee	2298
Scientific Publications	2299
Special Program-Project Committee	2299
Surgery	2299
Toxicology	2311
Tropical Medicine and Parasitology	2316
Virology and Rickettsiology	2324
Visual Sciences	2335
Interdisciplinary	2341
Research Contracts	2360

APPENDIX II

1965 F.Y. RESEARCH PROJECTS LISTED BY GENERAL RESEARCH AREAS

ACCIDENT PREVENTION RESEARCH

AC-00012 KNAPP, LAFAYETTE W., Jr., Col. Med., State Univ. Iowa, Iowa City, Iowa
accidents; occupational hazards; farmers; statistics

AC-00015 CASE, HARRY W., Sch. Eng., Univ. California, Los Angeles, Cal.
automobile accidents..driver; vision tests; age; sex difference; occupations; experience; computer analysis

AC-00019 McCARROLL, JAMES R., Cornell Univ., N.Y.C.
patient care; criteria; hospitals..emergency rooms; trauma; automobile accidents; survey; tetanus (clostridial); home accidents; drinking behavior

AC-00024 McGUIRE, FREDERICK L., Sch. Med., Univ. Mississippi, Jackson, Miss.
automobile accidents..drivers; age; sex difference; experience; occupations; socioeconomics; criminology; behavior; computer analysis

AC-00025 McBAIN, WILLIAM N., San Jose State Col., San Jose, California
psychometrics; alertness-vigilance; accidents; occupational hazards; automobile accidents..drivers

AC-00030 ALLEN, T.M., Michigan State Univ., East Lansing
automobile accidents; survey

AC-00033 HAHN, CLIFFORD P., American Inst. Res., Washington, D.C.
automobile accidents..drivers; photography; performance; interviews; prediction

AC-00051 SNIVELY, GEORGE G., Snell Mem. Fdn., Sacramento, Cal.
injury..head injury; safety equipment

AC-00054 ROBERT, VERNE L., Col. Eng., Wayne State Univ., Detroit, Mich.
automobile accidents; space medicine; bone stress; bone fractures; aircraft accidents; occupational hazards; injuries

AC-00064 SCHLESINGER: LAWRENCE E., George Washington Univ., Wash., D.C.
automobile accidents, drivers education; children .. adolescence; group counselling; family..parents; behavior; attitudes

AC-00073 CASE, HARRY W., Sch. Eng., Univ. California, Los Angeles, Cal.
safety equipment; instrumentation; trauma; automobile accidents; anthroopometry

AC-00087 TIFFIN, JOSEPH, Purdue Res. Fdn., Lafayette, Ind.
automobile accidents..drivers; performance; visual stimulus; criteria; dark adaptation

AC-00099 WICKSTROM, JACK K., Sch. Med., Tulane Univ., New Orleans, La.
automobile accidents; bone fractures; gravity; injury; instrumentation; neck

AC-00107 HUELKE, DONALD F., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
automobile accidents..vehicle engineering; death..sudden death; autopsy; medical records; statistics

AC-00109 GUILFORD, JOAN S., Am. Inst. Res., Los Angeles, Cal.
automobile accidents..drivers; automobile accidents.. drivers education; accident proneness; psychological tests; interviews; statistics; longitudinal study

AC-00126 WIENER, EARL L., Sch. Eng., Univ. Miami, Coral Gables, Fla.
monitoring; performance; instrumentation-methodology; alertness-vigilance; training

AC-00129 QUAM, GEORGE N., Villanova Univ., Villanova, Pa.
laboratory accidents and infections; safety equipment

AC-00134 POWERS, RICHARD D., Col. Agr., Univ. Wisconsin, Madison, Wis.
geographical sites..Wisconsin; pesticides; semantics.. grammar; semantics..vocabulary; statistics; survey

AC-00141 GUILFORD, JOAN S., American Inst. Res., Los Angeles, Cal.
behavior; biomathematics; criteria; decision--making; environment; home accidents; mathematical models; occupational hazards

AC-00157 CASE, HARRY W., Univ. California, Los Angeles, Cal.
research programs; automobile accidents; safety equipment; injury..head injury; brain concussion; bone fractures; bone..skull; criteria; stress, mechanical; instrumentation-methodology

AC-00162 EHRLICH, I. ROBERT, Stevens Inst. Technology, Hoboken, N.J.
automobile accidents..vehicle engineering; biomathematics; mathematical models; instrumentation-methodology

AC-00165 BARTZ, ALBERT E., Concordia Col., Moorhead, Minn.
automobile accidents..drivers; automobile accidents.. traffic controls; cinematography; eye movement; head movement; reaction time; visual stimulus

AC-00168 NAHUM, ALAN M., Sch. Med., UCLA Center for Hlth. Sciences, Los Angeles, Cal.
automobile accidents..drivers; injury; photography; medical records

AC-00169 KAESTNER, NOEL F., State Dept. Motor Vehicles, Salem, Ore.
automobile accidents..drivers; interviews

AC-00172 EDWARDS, DOROTHY S., American Inst. Res., Silver Spring, Md.
performance; automobile accidents..drivers; automobile accidents..driver education; automobile accidents.. traffic conditions; perception; cinematography

AC-00183 McFARLAND, ROSS A., Sch. Public Hlth., Harvard Univ., Boston, Mass.
automobile accidents; publications..literature survey; personality; environment

AC-00188 HEIMSTRA, NORMAN W., Grad. Sch., State Univ., South Dakota, Vermillion, S.D.
emotional reactions; performance; automobile accidents ..drivers; sex difference; personality; reaction time; psychometrics

AC-00195 KORIN, HYMAN, Sch. Eng., Sci., New York Univ., N.Y.C.
accidents; accident proneness; diagnostic tests; age; body movement; body position; sex difference; reaction time; visual perception

AC-00199 CEBOLLERO, ANGELES, Dept. Hlth., Santurce, P.R.
occupational hazards; preventive medicine; occupations; education; safety equipment; social desirability; social organization; geographical sites..Caribbean and neighboring islands

AC-00206 SHERIDAN, THOMAS B., Massachusetts Inst. Tech., Cambridge, Mass.
reaction time; visual perception; stimulus; automobile accidents..drivers; psychophysics; instrumentation-methodology

AC-00209 BRAUNSTEIN, MYRON L., Flight Safety Fdn., New York, N.Y.
aircraft accidents; injury; statistics; information exchange; computer programming

AC-00218 ADAMS, JAMES R., Teachers Col., Columbia Univ., New York, N.Y.
automobile accidents..drivers; performance; psychometrics; perception; judgment; reaction time; decision--making

AC-00219 CASE, HARRY W., Univ. California, Los Angeles, Cal.
automobile accidents..drivers; performance; behavior; chemotherapy; tranquilizers; chlorpromazine; thioridazine; prolixin; alcoholic beverages; biometry; psychometrics; psychiatric patients; rehabilitation; computer analysis

AC-00222 FLEISHMAN, EDWIN A., American Inst. Research Behavioral Sciences, Washington, D.C.
automobile accidents..drivers; automobile accidents.. drivers education; laboratory facilities; psychometrics; biometry; performance; behavior; criteria

AC-00224 GUTSHALL, ROBERT W., Lansing Public Schools, Lansing, Mich.
statistics; mental retardation; automobile accidents..drivers; intelligence tests; socio-economics; sex difference; automobile accidents.. drivers education; automobile accidents..traffic controls

AC-00236 LEHMAN, FREDERICK G., Newark Col. Eng., Newark, N.J.
automobile accidents..traffic conditions; automobile accidents..drivers; perception; mathematical models; computer

AC-00237 WIENER, EARL L., Sch. Eng., Univ. Miami, Coral Gables, Fla.
risk behavior..automobile accidents..traffic conditions; interviews recording; drinking behavior

AC-00240 SOBEL, RAYMOND, Sch. Med., Dartmouth Col., Hanover, N.H.
children; poisoning; accidnets; family..parent--child; emotional disturbance; social psychology; interviews; questionnaire; survey

ADVISORY COMMITTEE ON HEALTH SCIENCE ENGINEERING AND BIOTECHNOLOGY

FR-00015 GARFINKEL, DAVID, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
computer centers; computer simulation; mathematical models; glycolysis; ascites tumors; bacteria..Mycoplasma; radiation therapy; ultracentrifugation; electroencephalography; enzymes; ecology, animal; medical research; fungi..yeasts; heart; brain

FR-00018 JACOBS, JOHN E., Sch. Elec. Eng., Northwestern Univ., Evanston, Ill.
computer; medical research; computer diagnosis; training; instrumentation; research programs

FR-00112 **ALLAM, MARK W.**, Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
research programs; laboratory animals; diet; reproduction; aging; neoplasms; bacterial diseases; virus diseases; parasitic diseases; screening; cardiovascular diseases; gastrointestinal disorders; epizootiology; diagnostic tests; veterinary medicine

ADVISORY COMMITTEE ON PRIMATE CELLS

FR-00164 **LONGENECKER, HERBERT E.**, Tulane Univ., New Orleans, La.
primate centers; biology; physiology; psychology; cardiovascular diseases; information exchange; behavior; congenital abnormalities; infectious diseases

FR-00167 **ALBERTY, ROBERT A.**, Grad. Sch., Univ. Wisconsin, Madison, Wis.
primate centers; primates..Macaca mulatta; behavior; age; brain lesions; pregnancy; hormones; radiation effects..whole body radiation; radiation protection drugs; cell components..organelles; liver; cardiovascular system; lipids; alkaloids; metabolic diseases inborn; infant animals

FR-00278 **VAGTBORG, HAROLD**, Southwest Fdn. Res., Educ., San Antonio, Tex.
primate centers; laboratory facilities; primates..baboons

ALLERGY AND IMMUNOLOGY

AI-00022 **ELBERG, SANFORD S.**, Univ. California, Berkeley, Calif.
brucellosis; phagocytosis; primates..monkeys; vaccines.. Brucella vaccines

AI-00101 **STAHMANN, MARK A.**, Grad. Sch., Univ. Wisconsin, Madison, Wisconsin
allergic encephalomyelitis; bacteria; chemical structure.. biological activity; farmer's lung; neoplastic cells; polypeptides; proteases; synthesis; viruses

AI-00635 **McDERMOTT, WALSH**, Col. Med., Cornell Univ., New York, N.Y.
tuberculosis; latent bacterial diseases; chemotherapy; drugs resistance; p--aminosalicylic acid; isoniazid

AI-00646 **SMITH, DONALD W.**, Univ. Wisconsin, Madison, Wis.
bacteria..acidfast bacteria; lipids; immunology; hypersensitivity..delayed hypersensitivity; chemical structure-biological activity; tuberculosis; tissue

AI-00658 **NETER, ERWIN**, Children's Hosp., Buffalo, N.Y.
staphylotoxins; bacteria..enterobacteria; toxins; immunology..anamnestic reaction; epinephrine; skin; infarction; transplantation..homotransplantation; immunology..antibodies; endotoxins; immunology..antigens; bacteria.. Clostridium butyricum; hemagglutination; oncolysis

AI-00798 **GOOD, ROBERT A.**, Sch. Med., Univ. Minnesota, Minneapolis, Minn.
immunology; endotoxins; bacteria..Gram-negative bacteria; virus diseases; bacterial diseases; atopy; stress; proteins; metal; detoxication; toxins

AI-01171 **DONALDSON, DAVID M.**, Brigham Young Univ., Provo, Utah
blood..serum; bactericides; chemical structure; immunology; species; cytolysins

AI-01178 **RAFFEL, SIDNEY**, Sch. Med., Stanford Univ., Stanford, Cal.
blood..serum; hypersensitivity..delayed hypersensitivity; immunity; immunology..antibody inhibitors; 6-mercaptopurine; proteins; radiation effects..whole body radiation; radiolabeled; tuberculosis

AI-01247 **FOSTER, JOHN W.**, Sch. Vet. Med., Univ. Georgia, Athens, Ga.
bacteria..Brucella; immunology..antigens; cell components ..cell wall; barometric decompression; fractionation; serology

AI-01254 **LAWRENCE, H. SHERWOOD**, New York Univ. Med. Cr., N.Y.C.
bacteria; blood cells..leukocytes; fungi; hypersensitivity.. delayed hypersensitivity; passive sensitization transfer factor; transplantation..homotransplantation

AI-01255 **LEPOW, IRWIN H.**, Sch. Med., Western Reserve Univ., Cleveland, Ohio
immunology..complement; esterases; enzymes inhibitors.. antiesterases; blood proteins..serum proteins; euglobulin; hemolysis; chemical structure--biological activity

AI-01258 **CHASE, MERRILL W.**, The Rockefeller Inst., New York, N.Y.
hypersensitivity..delayed hypersensitivity; allergens.. chemical allergens; feeding; immunology..antigen--antibody reactions; reaction sites; tuberculin hypersensitivity; genetics; passive sensitization (transfer) factor

AI-01289 **LESKOWITZ, SIDNEY**, Massachusetts Gen. Hosp., Boston, Mass.
immunology..antibodies; hypersensitivity..delayed hypersensitivity; hypersensitivity tests; proteins

AI-01303 **ARBESMAN, CARL E.**, Buffalo Gen. Hosp., Buffalo, N.Y.
desensitization; therapy evaluation; hay fever; allergens standardization; insects bites; immunology..antigens; hypersensitivity tests; serum sickness; drugs hypersensitivity; insulin; penicillin; acetylsalicylic acid; immunology..antibodies; immunology..autoantibodies; bronchial mucus; tissue culture; ragweed; pollen; blood.. serum; primates..monkeys; Schultz--Dale test

AI-01322 **ROSE, BRAM**, McGill Univ. Clinic, Royal Victoria Hosp., Montreal, Canada
hay fever; allergens standardization; pituitary hormones; immunofluorescence; immunity..autoimmunity

AI-01339 **CAMPBELL, DAN H.**, California Inst. Tech., Pasadena, Cal.
cell culture; hypersensitivity; immunology..antibodies; immunology..antigens; pollen; reagin

AI-01355 **CAMPBELL, DAN H.**, California Inst. Tech., Pasadena, Cal.
immunology..antigens; allergens standardization; polypeptides; immunology..antibodies; immune sera; reaction sites; immunology..antigen--antibody reactions; soluble ribonucleic acid; radiolabeled sulfur

AI-01372 **FONG, JACOB**, Col. Letters, Sci., Univ. California, Berkeley, Cal.
immunity; histiocytes; bacteria..Mycobacterium tuberculosis

AI-01420 **HARVEY, A. McGEHEE**, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
biologic false positive reaction; connective tissue diseases; immunity..autoimmunity; lupus erythematosus; struma lymphomatosa

AI-01481 **STETSON, CHANDLER A., Jr.**, Sch. Med., New York Univ., New York, N.Y.
hypersensitivity.. delayed hypersensitivity; bacteria; endotoxins; immunology..antibodies; transplantation rejection

AI-01510 **VAN ARSDEL, PAUL R., Jr.**, Sch. Med., U. Washington, Seattle, Wash.
blood..plasma; blood cells..leukocytes; desensitization; histamine; hypersensitivity

AI-01524 **JOHNSON, ARTHUR G.**, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
bacteria; endotoxins; immunology..antibodies; adjuvants; nucleic acids; detoxication; blood..serum

AI-01563 **BURDON, KENNETH L.**, Col. Med., Baylor Univ., Houston, Tex.
bradykinin; enzymes; fibrinolysis; hypersensitivity; kallicrein; Schultz-Dale test

AI-01578 **SHERMAN, WILLIAM B.**, Col. Phys., Surg., Columbia Univ., N.Y.C.
immunology..antigen-antibody reactions; slow reacting substance; chemical structure--biological activity; lung; NAD; nucleotidases..diphosphopyridine nucleotidase; anaphylaxis; histamine; nicotinamide; enzymes inhibitors; phospholipases; blood cells..leukocytes; proteolysis

AI-01597 **LINDORFER, ROBERT K.**, Col. Vet. Med., Univ. Minnesota, St. Paul, Minn.
bacteria..Staphylococcus aureus; hemolysins; immunology; leukocidin; toxins

AI-01636 **YOUMANS, GUY P.**, Sch. Med., Northwestern Univ., Chicago, Ill.
bacteria..mycobacteria, atypical; fractionation; genetics; growth inhibitors; hormones; host-parasite; immunity; lung; nutrition; spleen; tuberculosis; vaccines..tuberculosis vaccines; virulence, microorganisms

AI-01821 **UHR, JONATHAN W.**, New York Univ. Med. Cr., N.Y.C.
hypersensitivity..delayed hypersensitivity; bacteria; viruses..bacteriophage; immunology..antibodies; immunology.. antibody inhibitors

AI-01831 **HIRSCH, JAMES G.**, Rockefeller Inst., N.Y.C.
blood cells..eosinophil leukocytes; blood cells..neutrophil leukocytes; cell components..lysosomes; host-parasite; macrophages; phagocytosis

AI-01855 **SAMTER, MAX**, Col. Med., Univ. Illinois, Chicago, Ill.
eosinophilia; nematodes..Ascaris; keratins; lung; blood; sulfhydryls; hypersensitivity; gelatin; proteins

AI-01865 **STAVITSKY, ABRAM B.**, Sch. Med., Western Reserve Univ., Cleveland, Ohio
immunology..antibodies; immunology..antigen-antibody reactions; lymphatic tissue; macroglobulins; molecular structure; radiolabeled; sucrose

AI-01897 **MATHEWS, KENNETH P.**, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
atopy; immunology..antigen-antibody reactions; blood; histamine; allergens standardization; pollen; blood cells, leukocytes

AI-01925 **ADLER, FRANK L.**, Public Hlth. Res. Inst., N.Y.C.
enzymes inhibitors; immunofluorescence; immunology.. antibodies; immunology..antigen-antibody reactions; immunology..antigens; macrophages; nucleases.. ribonucleases; radiolabeled

AI-01940 **LEVINE, LAWRENCE**, Grad. Sch., Brandeis Univ., Waltham, Mass.
bacteria; chemical structure; conformations (chemistry); deoxyribonucleic acid; genetics, hybrids; heme; hemoglobin; immunology..antibodies; immunology..complement; myoglobin; parathyroid hormones

AI-01991 **SMITH, DAVID T.**, Sch. Med., Duke Univ., Durham, N.C.
bacteria..Mycobacterium; genetic strains; immunological tests; immunology..agglutinins; hemagglutinins; immunity.. cross immunity

AI-02085 **SEHON, ALEX**, McGill Univ., Montreal Canada
allergens standardization; pollen; ragweed; immunology.. hapten; immunology..antigens; immunology..antibodies; chlorogenic acid; passive sensitization transfer factor; histamine; serotonin; conjugates; immunological tests; anaphylaxis; thermodynamics; coffee bean

AI-02310 **BURROWS, WILLIAM**, Grad. Sch., Univ. Chicago, Chicago, Ill.
bacteria..Vibrio cholerae; serotypes; immunology.. antigens; cell components..cell wall; immune sera; complement--fixation tests; fractionation

(contd)

LISTING OF GENERAL RESEARCH AREAS

ALLERGY AND IMMUNOLOGY (CONTD)

AI-02312 **LEON, MYRON A., St. Luke's Hosp., Cleveland, Ohio**
proteins; dextran; blood..serum; conglutinin; macroglobulins; immunology..complement; blood cells..erythrocytes; hemagglutination; enzyme inhibitors..antiesterases; carbohydrates

AI-02327 **WOODWARD, JOHN M., Univ. Tennessee Mem. Res. Cr., Hosp., Knoxville, Tenn.**
bacteria..Escherichia coli; immunology..antigens; polysaccharides; colominic acid; genetic strains; growth factors; chemical structure; transplantation immunology; colicines; neuraminic acids

AI-02334 **ANDREWS, EDWARD C., Jr., Col. Med., Univ. Vermont, Burlington, Vt.**
bacteria..Diplococcus pneumoniae; immunity; blood..serum; chemical structure--biological activity; virulence, microorganisms; infectious diseases

AI-02335 **ABRAHAMS, IRVING, Col. Med., Cornell Univ., New York, N.Y.**
cryptococcosis; vaccines; anaphylaxis; reticuloendotheliosis

AI-02336 **HARDY, PAUL H., Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
diagnostic tests; genetic strains; immunity; immunology..antibodies; immunology..antigens; spirochetes..Reiter treponeme; spirochetes..Treponema; treponemal infections

AI-02342 **PRESSMAN, DAVID, Roswell Park Mem. Inst., Buffalo, N.Y.**
immunology..antibodies; immunology..hapten; reaction sites; chemical structure--biological activity

AI-02349 **VAUGHAN, JOHN H., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.**
drugs hypersensitivity; penicillin; diagnostic tests; blood cells..leukocytes; tissue culture; histamine

AI-02471 **HALL, WENDELL H., Veterans Admin. Hosp., Minneapolis, Minn.**
bacteria..Brucella; bacteriolysis; properdin; immunology..complement; immunology..blocking antibodies; bacteria..Staphylococcus; blood groups..Rh factors

AI-02564 **WEINSTEIN, LOUIS, New England Cr. Hosp., Boston, Mass.**
bacteria..Staphylococcus aureus; α-hemolysins; enzymes; growth; virus replication; immunity; staphylococcal infections; reaction sites

AI-02566 **MAYER, MANFRED M., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
anaphylaxis; bacteriolysis; cytotoxicity; enzymes; hemolysis; hypersensitivity; immunology..antibodies; immunology..complement; phagocytosis; spirochetes; toxins; viruses

AI-02632 **CHASE, HERMAN B., Brown Univ., Providence, R.I.**
hypersensitivity; genetics; asthma; atopic dermatitis; skin tests

AI-02638 **LOWELL, FRANCIS C., Mass. Gen. Hosp., Boston, Mass.**
allergens standardization; hay fever; therapy evaluation; allergens; blood..serum; skin test; heaves; horses; atopy

AI-02639 **LOWELL, FRANCIS C., Mass. Gen. Hosp., Boston, Mass.**
atopy; serology; dust..house dust; immunology..antigens; allergens standardization; hypersensitivity tests; blood cells..eosinophil leukocytes; hayfever; allergens..airborne allergens; ragweed; pollen

AI-02661 **FRISCH, ARTHUR W., Univ. Oregon Med. Sch., Portland, Ore.**
drugs; hemagglutinins; immunology..antibodies; tissue

AI-02682 **SHERMAN, WILLIAM B., Roosevelt Hosp., N.Y.C.**
allergens standardization; 6,9-diamino-2-ethoxyacridine; hay fever; heavy metals; immune sera; immunology..antibodies; ion; proteins

AI-02689 **CROWLE, ALFRED J., Univ. Colorado Med. Cr., Denver, Colo.**
hypersensitivity..delayed hypersensitivity; hypersensitivity..immediate hypersensitivity; immunity; polysaccharides; proteins; immunology..antigens; histocompatibility; passive sensitization transfer factor; desensitization; drugs

AI-02693 **EVANS, E. EDWARD, Sch. Med., Dent., Univ. Alabama, Birmingham, Ala.**
immunology..antibodies; poikilotherms; phylogeny; immunology..anamnestic reaction; hypersensitivity..delayed hypersensitivity

AI-02755 **STEWARD, JOHN P., Sch. Med., Stanford Univ., Stanford, Cal.**
bacteria..enterobacteria; blood..serum; immunity; immunology..antibodies; immunology..antigens; lymphatic tissue; mutations; peritoneum; radiation effects..whole body radiation; virulence (microorganisms)

AI-02910 **FARAH, FUAD S., Sch. Med., American Univ., Beirut, Lebanon**
immunology..antibodies; hypersensitivity..immediate hypersensitivity; skin; heat; hypersensitivity tests; immunological tests; enzymes; proteases..papain; conjugates

AI-03017 **TALMAGE, DAVID W., Univ. Colorado Med. Cr., Denver, Colo.**
immunology..antibodies; immunology..anamnestic reaction; bovine serum albumin; radiation effects..whole body radiation; immunology..complement; amino acid sequence

AI-03075 **OVARY, ZOLTAN, Sch. Med., New York Univ., N.Y.C.**
allergens standardization; anaphylaxis..passive anaphylaxis; immunology..antibodies; immunology..antigens; lysine; molecules..macromolecules; proteases..papain; proteases..pepsin; proteolysis

AI-03076 **THORBECKE, G. JEANETTE, Sch. Med., New York Univ., N.Y.C.**
blood cells..plasma cells; blood proteins..serum proteins; gamma globulin; immunoelectrophoresis; immunology..complement; infants, animals..newborn; lymphatic tissue; radioautography

AI-03104 **LEON, MYRON A., St. Luke's Hosp., Cleveland, Ohio**
immunology..complement; dextran; properdin; aryl-β-arabinopyranosides; reaction sites; immunological tests; immunology..antibodies

AI-03110 **ROBERTSTAD, GORDON W., Univ. Wyoming, Laramie, Wyo.**
bacteria..Vibrio fetus; immunology..antigens; infrared spectrometry; electrophoresis; gel diffusion technique

AI-03151 **OSLER, ABRAHAM G., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
anaphylaxis; blood cells..leukocytes; immunology..antibodies; pollen; gamma globulin; immunology..complement; anaphylatoxins; muscle contraction; endothelium permeability; histamine; blood cells..thrombocytes; reaction sites; passive sensitization

AI-03185 **ROBBINS, KENNETH C., Michael Reese Fdn., Chicago, Ill.**
allergens standardization; pollen; ragweed; chromatography; immunoelectrophoresis; Sephadex gel filtration

AI-03222 **ALADJEM, FREDERICK, Sch. Med., Univ. So. California, Los Angeles, Cal.**
allergens standardization; fractionation; gel diffusion technique; immunology..antibodies; immunology..antigen-antibody reactions; immunology..hapten; precipitin technique

AI-03223 **MAEIR, DAVID M., Sch. Med., Yeshiva Univ., N.Y.C.**
cell culture; enzymes; hypersensitivity..delayed hypersensitivity; immunology..antigen-antibody reactions; phagocytosis; reaction sites

AI-03226 **ROWLEY, DERRICK, Sch. Med., Univ. Adelaide, Adelaide, South Australia**
opsonins; phagocytosis; bacteria; immunity; fetus

AI-03231 **EISEN, HERMAN H., Sch. Med., Washington Univ., St. Louis, Mo.**
hypersensitivity..delayed hypersensitivity; skin; immunofluorescence; immunology..antibodies; cells; chemical structure--biological activity; passive sensitization; 2,4--dinitrophenol; azobenzene--arsonate

AI-03260 **KARNOVSKY, MANFRED L., Sch. Med., Harvard Univ., Boston, Mass.**
phagocytosis; membrane permeability; cell components..cell membrane; lipids; pinocytosis

AI-03289 **RHYNE, MARIE B., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
anaphylaxis; immunology..complement

AI-03297 **FRANZL, ROBERT E., Rockefeller Inst., N.Y.C.**
immunology..antibodies; immunology..antigens; macrophages

AI-03309 **BARAM, PETER, Michael Reese Hosp., Chicago, Ill.**
tuberculin hypersensitivity; passive sensitization transfer factor; blood cells..leukocytes; immunology..antibodies

AI-03320 **STAUB, ANNE M., Inst. Pasteur, Paris, France**
immunology..antigens; viruses..bacteriophage; vaccines; reaction sites; molecular structure; bacteria..Salmonella

AI-03348 **COOMBS, R.R.A., Univ. Cambridge, Cambridge, England**
immunology..antigens; cell components..cell membrane; transformation; death; infant human; hypersensitivity; milk; cytology; blood groups; transplantation immunology

AI-03363 **KOCHAN, IVAN, Grad. Sch., Baylor Univ., Dallas, Tex.**
tuberculosis; immunity; bacteria..Mycobacterium tuberculosis; growth inhibitors; blood..serum; chemical structure--biological activity; macrophages

AI-03368 **BIENVENU, RENE J., Jr., Grad. Sch., Northwestern State Col., Natchitoches, La.**
brucellosis; immunity; blood..serum; pregnancy; gonadotropins; magnesium; immunology..complement; properdin; cell components..cell wall; bacteria..Brucella

AI-03398 **GLICK, BRUCE, Sch. Agr., Mississippi State Univ., State College, Miss.**
bacteria..Salmonella pullorum; bacteria..Salmonella typhimurium; immunology..antibodies; poultry; bursa; immunofluorescence; genetics

AI-03439 **WATSON, DENNIS W., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
immunology..antibodies; genetics; foreign proteins; spleen; cell; infant animals..newborn; age; nutrition; germ--free; dietary deficiency

AI-03452 **PETERSDORF, ROBERT G., Sch. Med., Univ. Washington, Seattle, Wash.**
pyrogens; blood..serum; immunology; chemical structure--biological activity; etiocholanolone fever

AI-03453 **PORTER, RICHARD J., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.**
immunity..hyperimmunization; immunology..antigen-antibody reactions; bovine gamma globulin; radiation effects; x-rays; immunology..antibodies

AI-03455 **COHN, MAURICE L., Natl. Jewish Hosp., Denver, Colo.**
bacteria..Mycobacterium tuberculosis; bacteria..mycobacteria, atypical; sulfolipids; chemical structure-

AI-03492 EVANS, E. EDWARD, Sch. Med., Dent., Univ. Alabama Med. Cr., Birmingham, Ala.
cell components..cell capsule; cell components..cell wall; chemical structure--biological activity; microorganisms

AI-03514 MAURER, PAUL H., Sch. Med., Seton Hall Col., Jersey City, N.J.
amino acid; bovine serum albumin; immune sera; immunology..antigen-antibody reaction; immunology..antigens; molecular structure; polymers; proteins

AI-03733 TERRES, GERONIMO, Jr., Sch. Med., Stanford Univ., Stanford, Cal.
anaphylaxis; dosage; immunity; bovine serum albumin; immunology..antigens

AI-03767 SHEPRO, DAVID, Grad. Sch., Boston Univ., Boston, Mass.
lymphatic system; aging; transplantation..homotransplantation; neoplasms transplantation; lymph flow; blood cells..lymphocytes; nucleic acids; transplantation immunology; thymus

AI-03772 WOOD, W. BARRY, Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
oxygens; blood cells..leukocytes; chemical structure-biological activity; proteins

AI-03882 WEIGLE, WILLIAM O., Scripps Clinic and Res. Fdn., La Jolla, Cal.
blood..serum; blood proteins; immunology..complement; nitrogen; esterases; immunology..antigen-antibody reactions

AI-03897 DIXON, FRANK J., Scripps Clin. Fdn., La Jolla, Cal.
infant animals; maternal--fetal; amino acids; immunology.. antibodies; blood cells..neutrophil leukocytes; Arthus phenomenon; vascular disorders; homologous wasting disease; radiation effects; spleen; kidney; glomerulonephritis

AI-03900 FELDMAN, JOSEPH D., Scripps Clinic Fdn., La Jolla, Cal.
hypersensitivity..delayed hypersensitivity; immunology.. antigens; immunology..antibodies; transplantation immunology; proteins; thyroid neoplasms

AI-03961 AUGUSTIN, ROSA, Sch. Trop. Med., Univ. Liverpool, Liverpool, England
allergens; allergens standardization; grasses; nematodes.. Filaria; reagin; skin; immunity

AI-03962 PRESSMAN, DAVID, Health Res. Inc., Buffalo, N.Y.
immunology..antibodies; amino acid sequence; immunology.. haptens; reaction sites; radiolabeled iodine; enzymes; proteases..chymotrypsin; proteases..carboxypeptidase

AI-03978 COHEN, EDWARD P., Sch. Med., Univ. Colorado, Denver, Colo.
immunology..antibodies; genetics; cell culture; chorio-allantoic membrane; peritoneal cavity; diffusion chambers; cell differentiation

AI-04025 ADAMS, EUGENE W., Sch. Vet. Med., Tuskegee Inst., Tuskegee, Ala.
listeria infections; immunity; vaccines

AI-04042 KUMATE-RODRIGUEZ, J., Hosp. Infantil, Mexico, D.F., Mexico
bacteria..Salmonella typhosa; immunology..antigens; reaction sites; radiolabeled; immunological tests; children; immunology..antibodies

AI-04131 BATTISTO, JACK R., Albert Einstein Col. Med., New York, N.Y.
hypersensitivity..delayed hypersensitivity; immunity..isoimmunity; blood..serum; skin tests; genetics; blood proteins.. serum proteins; polymorphism (biology)

AI-04140 GOLDBERG, BURTON D., Sch. Med., New York Univ., N.Y.C.
cell; collagen; conjugates; ferritin; immunology..antigen-antibody reactions; immunology..antigens; reaction sites; staining

AI-04191 SZENTIVANYI, ANDOR, Univ. Colorado Med. Cr., Denver, Colo.
gamma globulin; homeostasis; amino acids; radiolabeled sulfur

AI-04197 ROWLEY, DONALD, Univ. Chicago, Chicago, Ill.
blood cells..monocytes; immunology..antigens; bacteria.. Salmonella typhosa; immunology..antibodies; vaccines.. Salmonella typhosa vaccine; blood cells..erythrocytes

AI-04217 ROBERTS, AUDREY N., Sch. Med., Univ. Tennessee, Memphis, Tenn.
reaction sites; tritium; histiocytes; cells; lymphatic tissue; hemagglutination

AI-04234 FEINBERG, SAMUEL M., Med. Sch., Northwestern Univ., Chicago, Ill.
hypersensitivity..delayed hypersensitivity; immunology.. antigens; microorganisms; passive sensitization transfer factor; ragweed

AI-04252 TSUJI, SHUSUKE, Grad. Sch., Tuberculosis Res. Inst., Kyoto Univ., Kyoto, Japan
bacteria..Myco bacterium tuberculosis; bactericides; body fluids; chemical structure--biological activity; organic acids; peptides

AI-04325 HUME, DAVID M., Med. Col. Virginia, Richmond, Va.
hypersensitivity; immunity; immunology..leukocytes antibodies; gamma globulin; blood cells..lymphocytes; transplantation..homotransplantation; hypogammaglobulinemia; immunity..autoimmunity

AI-04336 BONILLA-SOTO, ORLANDO, Sch. Med., Univ. Puerto Rico, San Juan, P.R.
hypersensitivity; fungi; allergens..airborne allergens; immunology..antigens; chemical structure--biological activity; immunological tests

AI-04412 REED, CHARLES E., Sch. Med., Univ. Wisconsin, Madison, Wis.
allergens standardization; reagin; hemagglutination; immunology..antigens; radiolabeled iodine; skin; hypersensitivity

AI-04432 RAPPAPORT, BEN Z., Col. Med., Univ. Illinois, Chicago, Ill.
immunology..antibodies; passive sensitization; primates.. Macaca mulatta; active sensitization; epithelium; abdominal viscera; reagin; precipitins

AI-04444 TERASAKI, PAUL I., Sch. Med., Univ. California, Los Angeles, Cal.
immunology..leukocytes antigens; blood cells..lymphocytes; transplantation..homotransplantation; chimeras

AI-04499 ACKROYD, JOHN F., St. Mary's Hosp., London, England
drugs hypersensitivity; cytolysis; blood disorders; thrombocytopenia; hemolytic anemia; agranulocytosis; immune sera; precipitins; penicillin; blood proteins; immunology..antigen-antibody reactions

AI-04536 AUSTEN, K. FRANK, Massachusetts Gen. Hosp., Boston, Mass.
anaphylaxis; calcium; diisopropylfluorophosphate; esterases; gamma globulin; histamine; immune sera; immunology..complement; lung; magnesium; mast cells; salicylaldoxime

AI-04602 VERWEY, WILLARD F., Sch. Med., Univ. Texas, Galveston, Tex.
bacteria..Vibrio cholerae; bacteria..Vibrio El Tor; chemical structure--biological activity; fractionation; immunology..antigens; lipopolysaccharides; serotypes; vaccines..cholera vaccine

AI-04624 DeWITT, CHARLES W., Sch. Med., Tulane Univ., New Orleans, La.
bacteria..Escherichia coli; immunology..antigens; virulence; microorganisms; immunity..cross immunity

AI-04645 WILLIAMS, JOHN W., Grad. Sch., Univ. Wisconsin, Madison, Wis.
immunology..antibodies; gamma globulin; macroglobulins; fractionation; reaction sites; binding

AI-04646 PARKER, CHARLES W., Sch. Med., Washington Univ., St. Louis, Mo.
drugs hypersensitivity; penicillin; immunology..antigens; immune sera; immunology..antibodies; nucleotides; allergens standardization; desensitization; polypeptides; 2,4--dinitrophenol; p--toluenesulfonates

AI-04716 LITT, MORTIMER, Boston City Hosp., Boston, Mass.
blood cells..eosinophil leukocytes; hypersensitivity; immunity; immunology..antigens; immunology..antibodies; lymph nodes

AI-04738 USHIBA, DAIZO, Sch. Med., Keio Univ., Tokyo, Japan
typhoid fever; tuberculosis; vaccines..Bacillus Calmette--Guerin vaccine; bacteria..Salmonella enteritidis; immunity; cells; macrophages; passive sensitization transfer factor; blood cells..lymphocytes; transplantation immunology

AI-04761 KAPRAL, FRANK A., Philadelphia Gen. Hosp., Philadelphia, Pa.
bacteria..Staphylococcus aureus; staphylotoxins; cytopathogenic effect, bacterial; immunology..antigens; growth, microorganisms; hypersensitivity..delayed hypersensitivity

AI-04778 MALKIEL, SAUL, Children's Cancer Res. Fdn., Boston, Mass.
allergens standardization; pollen; ragweed; chemical structure..biological activity

AI-04808 TRIPLETT, EDWARD L., Sch. Biol. Sci., Univ. California, Santa Barbara, Cal.
immunology..antibodies; histocompatibility; transplantation..homotransplantation; pituitary gland transportation; embryology; histones; gamma globulins

AI-04839 INDERBITZIN, THEODOR M., Sch. Med., Tufts Univ., Boston, Mass.
anaphylaxis; skin; reaction sites; proteases; immunology.. complement

AI-04849 MILLER, J. LOWRY, Col. Phys., Surg., Columbia Univ., New York, N.Y.
biologic false positive reaction; gamma globulin; serology; diagnostic tests; amino acids

AI-04866 NORMAN, PHILIP S., Johns Hopkins Hosp., Baltimore, Md.
hay fever; ragweed; pollen; desensitization therapy; allergens standardization; immunology..antigens; therapy evaluation

AI-04925 HERION, JOHN C., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
blood cells..thrombocytes; drugs tolerance; endotoxins; fever; leukemia; leukopenia; nitrogen mustards; radiation sensitivity; radiolabeled chromium; reticuloendothelial system; thorotrast

AI-04942 NELSON, JOHN D., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
bacteria..Escherichia coli; bacteria..Streptococcus Group A beta Hemolytic; bacteria..Corynebacterium diphtheriae; immunofluorescence; diarrhea; infectious diseases; disease transmission; children; adults; diagnostic tests

AI-04983 BENACERRAF, BARUJ, New York Univ. Med. Cr., N.Y.C.
alkylation; chemical structure--biological activity; S7 gamma globulin; hypersensitivity; immunology..anamnestic reactions; immunology..antibodies; molecular rearrangement; proteases..papain; reaction sites; reduction

(contd)

LISTING OF GENERAL RESEARCH AREAS

ALLERGY AND IMMUNOLOGY (CONTD)

AI-04985 ISHIZAKA, KIMISHIGE, Children's Asthma Res. Inst., Hosp., Denver, Colo.
immunology..antigen--antibody reactions; gamma globulin; molecular rearrangement; skin sensitizing antibody; immunology..antibodies; reaction sites; molecular structure

AI-05013 KAEBERLE, MERLIN L., Col. Vet. Med., Iowa State Univ., Ames, Iowa
immunology..antibodies; colostrum; infant animals.. newborn; immunology..antigen-antibody reactions; radiolabeled sulfur; cell

AI-05042 CEBRA, JOHN J., Col. Med., Univ. Florida, Gainesville, Fla.
immunology..antigen--antibody reactions; immunology.. complement; reaction sites; molecular structure; proteolysis; proteases..papain; reduction; skin sensitizing antibody

AI-05098 PHILLIPS, JOHN H., Jr., Hopkins Marine Station, Pacific Grove, Cal.
amino groups; cell; foreign proteins; immunology..antigen-antibody reactions; proteolysis; radiolabeled; reaction sites

AI-05100 AUSTRIAN, ROBERT, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
bacteria..Diplococcus pneumoniae; bacteria..Klebsiella pneumoniae; bacteria..Streptococcus; bacterial endocarditis; cell components..cell capsule; host-parasite; immunology..antibodies; M protein; polysaccharides; pneumonia; research programs; serology; transformation; viruses

AI-05158 PRESSMAN, DAVID, Health Research, Inc., Buffalo, N.Y.
capillary beds; immunology..antibodies; immunology.. antigens; insulin; reaction sites

AI-05162 GOCKE, DAVID J., Col. Phys., Surg., Columbia Univ., New York, N.Y.
hypersensitivity; cytotoxicity; blood cells..thrombocytes; blood cells..leukocytes; immunology; membrane permeability; serotonin; histamine; blood cells..lymphocytes

AI-05176 TAYLOR, CARL E., Sch. Hyg., Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
leprosy; epidemiology; diagnostic tests; skin tests; bacteria..Mycobacterium leprae; fractionation

AI-05179 DAVIDSOHN, ISRAEL, Mount Sinai Hosp., Chicago, Ill.
infectious mononucleosis; viruses..infectious mononucleosis virus; immunology..heterophilic antibodies

AI-05191 AMIRAIAN, KENNETH, Health Research, Inc., Albany, N.Y.
gamma globulin; functional groups; fractionation; stereochemistry; immunology; immunology..complement; immunology..antigens; chemical structure--biological activity

AI-05224 SCHMIDT, WILLARD C., Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
bacteria..Streptococcus Group A; cell components..cell wall; hydrolysis; streptolysin; fungi..Streptomyces albus; chemical structure--biological activity; radiolabeled; immunology; hypersensitivity; rheumatic fever

AI-05305 ROCKEY, JOHN H., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
immunology..antibodies; sedimentation constants; blood proteins; glucagon

AI-05316 ROSENBERG, LEON T., Sch. Med., Stanford Univ., Stanford, Cal.
immunology..complement; genetics..genes; hemolysis; genetic strains; genetic mapping; genetics..hybrids; serology

AI-05336 MARCUS, DONALD M., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
blood cells..erythrocytes; chemical structure; fractionation; hydrolysis; immunology..autoantigens; immunology.. II antigens; oligosaccharides; stroma

AI-05338 MUELLER, AUGUST P., Grad. Sch., Harpur Col., State Univ. New York, Binghampton, N.Y.
chickens; bovine serum albumin; immunology; age

AI-05360 KANTOR, S. SVI, Rogoff Medical Res. Inst., Beilinson Hosp., Petah Tikva, Israel
favism; immunology..antibodies; hypersensitivity; oxidoreductases..glucose--6--phosphate dehydrogenase; glutathione; geographical sites..Israel

AI-05370 LARSON, CARL L., Col. Arts, Sci., Montana State Univ., Missoula, Mont.
bacteria..acid-fast bacteria; cell components..cell wall; cell components..protoplasm; hypersensitivity..delayed hypersensitivity; immunology..antigen-antibody reactions; bacteria..Brucella; immunological tests; immunity; bacteria ..Pasteurella tularensis

AI-05382 MELNICK, JOSEPH L., Col. Med., Baylor Univ., Houston, Tex.
research programs; viruses; fluorescent dyes; virus replication; infants; cytology; latent virus diseases; genetics; virulence, microorganisms; instrumentation--methodology; immunology; chemical structure; neoplasms; diarrhea; vaccines; World Health Organization; cooperative study; epidemiology; St. Louis encephalitis

AI-05386 GOLDFARB, A. ROBERT, Sinai Hosp. Detroit, Detroit, Mich.
ragweed; allergens standardization; skin tests; blood proteins..serum proteins; allergens; immunology..antigen-antibody reactions; tritium

AI-05403 WALFORD, ROY L., Sch. Med., Univ. California, Los Angeles, Cal.
blood cells..lymphocytes; typing sera; immune sera; transplantation..homotransplantation; immunity..isoimmunity; blood groups; transplantation immunology

AI-05441 WILEY, BILL B., Col. Med., Univ. Utah, Salt Lake City, Utah
bacteria..Staphylococcus aureus; bacterial capsules; mucopeptide; immunity

AI-05454 MUSCHEL, LOUIS H., Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
immunology..antibodies; immunity..autoimmunity; bacteria; bacteria; immune sera; immunological tests; bacteriolysins; vaccines; adjuvants (Immunology); allergic encephalomyelitis

AI-05473 MUDD, STUART, Veterans Admin. Hosp., Philadelphia, Pa.
bacteria..Staphylococcus; bacteria..Mycobacterium tuberculosis; immunity; staphylococcal toxoid; leukocidin; osteomyelitis acute; gamma globulin; immunology..agglutinins; vaccines..Staphylococcus vaccines; vaccines..Bacillus Calmette--Guerin vaccine; macrophages; phagocytosis

AI-05474 HSU, KONRAD C., Col. Phys., Surg., Columbia Univ., New York, N.Y.
ferritin; ferritin labeled antibody technique; immunology.. antigens; immunology..antibodies; precipitins; polysaccharides; bacteria..Diplococcus pneumoniae; immunofluorescence; conjugates

AI-05479 LOSPALLUTO, JOSEPH J., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
adjuvants (immunology)..Freund's adjuvant; cell types; conjugates; 2,4-dinitrophenol; S7 gamma globulin; S19 gamma globulin; hypersensitivity..delayed hypersensitivity; immunology..antigen-antibody reactions; immunology..hapten; liver; lymph nodes; macrophages; passive sensitization; spleen

AI-05493 RIFKIND, RICHARD A., Sch. Med., Col. Phys., Surg., Columbia Univ., New York, N.Y.
blood cells..plasma cells; immunology..antigens; immunology..antibodies; gamma globulin; cell components ..ribosomes; cell components..microsomes; reaction sites; ferritin; apoferritin; binding; hemoglobin; cell components..polysomes; blood cells..reticulocytes

AI-05528 WEBBER, MILO M., Univ. California Med. Cr., Los Angeles, Cal.
immunology..antigens; radiation effects; immunology.. antibodies; transplantation-immunology; viruses.. Tobacco mosaic virus; radiolabeled iodine; immunology.. antibody inhibitors

AI-05530 AUSTIN, LOUIS G., Virginia State Col., Norfolk, Va.
immunology; immunology..antibodies; serology; electrophoresis

AI-05550 FLAX, MARTIN H., Massachusetts Gen. Hosp., Boston, Mass.
hypersensitivity..delayed hypersensitivity; immunology; bacteria..Mycobacterium; thyroiditis..allergic thyroiditis; immunity..autoimmunity; tritium; thyroid gland; lymph nodes; thymidine; adjuvants (immunology)

AI-05564 SEIFTER, SAM, Albert Einstein Col. Med., New York, N.Y.
immunology..complement; fractionation; chemical structure--biological activity

AI-05572 TENGERDY, ROBERT P., Col. Vet. Med., Colorado State Univ., Fort Collins, Colo.
immunofluorescence; instrumentation--methodology; albumins..serum albumins; globulins..serum globulins; radiolabeled iodine; amidohydrolases..urease; conalbumin

AI-05581 NOWOTNY, ALOIS H., Sch. Med., Temple Univ., Philadelphia, Pa.
endotoxins; toxicology; pyrogens; lipids; bacteria.. Serratia marcescens; chemical structure--biological activity; enzymes; cell components..cell wall

AI-05596 PLATT, DAVID, Sch. Dent., Univ. Pittsburgh, Pittsburgh, Pa.
glycoproteins; immunology..hapten; synthesis; germ--free; immunological tests; chemical structure--biological activity

AI-05604 SINGER, JACQUES M., Montefiore Hosp., Bronx, N.Y.
latex particles; albumins; phagocytosis; immunology..antigens; immunology..antigen-antibody reactions; reticuloendothelial system

AI-05613 DUTTON, RICHARD W., Scripps Clinic and Res. Fdn., La Jolla, Cal.
immunology..antibodies; cell culture; spleen; cell division; immunology..antigens; deoxyribonucleic acid; transplantation..homotransplantation; lymphatic tissue transplantation

AI-05617 MULLER-EBERHARD, HANS J., Scripps Clinic, Res. Fdn., La Jolla, Cal.
immunology..complement; chemical structure--biological activity; amyloid substance; gamma globulin; screening; immunity..autoimmunity

AI-05643 BREITENBACH, ROBERT P., Col. Arts, Sci., Univ. Missouri, Columbia, Mo.
lymphatic tissue; immunology..antigen-antibody reactions; phagocytosis; blood proteins..serum proteins; serology; lymphatic tissue transplantation; age; testosterone; 11-oxosteroids; transplantation immunology; protozoa.. plasmodium knowlesi

AI-05662 HOBBY, GLADYS L., Veterans Admin. Hosp., East Orange, N. J.
vaccines..Bacillus Calmette-Guerin vaccine; tuberculosis;

AI-05664 **GOODMAN, JOEL W., Univ. California Med. Cr., San Francisco, Cal.**
bacteria..Bacillus anthracis; chemical bonds; chemical structure; gamma globulin; glutamates; immunological tests; immunology..antigen-antibody reactions; molecular size; polypeptides; proteases..pepsin; rheumatoid factor; synthesis

AI-05667 **MYRVIK, QUENTIN N., Bowman Gray Sch. Med., Winston-Salem, N.C.**
macrophages; cell components..granules; enzymes; immunity; bacteria..bacillus Calmette-Guerin; phagocytosis; host-parasite; bacteria..Mycobacterium phlei; bacteria..Pasteurella pestis; tissue culture; hypersensitivity; pulmonary granuloma

AI-05691 **COONS, ALBERT H., Sch. Med., Harvard Univ., Boston, Mass.**
tissue culture; 6--mercaptopurine; hypersensitivity; drugs; hormones; research programs; transplantation immunology; polypeptides

AI-05740 **BAUER, DIETRICH C., Sch. Med., Indiana Univ., Indianapolis, Ind.**
immunology..antibodies; immunology..antibody--antigen reaction; immunology..hapten; S7 gamma globulin; S19 gamma globulin; radiolabeled sulfur; radiolabeled iodine; immunofluorescence; cell types

AI-05754 **SALVAGGIO, JOHN E., Sch. Med., Louisiana State Univ., New Orleans, La.**
adjuvants (immunology)..Freund's adjuvant; aerosols; atopy; dextran; hypersensitivity..delayed hypersensitivity; immunology..antigen-antibody reactions; immunology..antigens; membrane permeability; mucous membrane; nose; nucleases..ribonucleases

AI-05758 **SIGEL, M. MICHAEL, Sch. Med., Univ. Miami, Coral Gables, Fla.**
marine biology; aquatic animals; immune sera; immunology..antibodies; cell culture; host--virus; virus diseases; viruses..influenza viruses

AI-05767 **BURNET, FRANK M., Royal Melbourne Hosp. P.O., Victoria, Australia**
immunity..autoimmunity; genetics; hemolytic anemia; glomerulonephritis; thymus transplantation; histocompatibility; bacteria; viruses; immunology..antigens; immunological tests

AI-05783 **WALZER, EUGENE H., Jewish Hosp., Brooklyn, N.Y.**
hypersensitivity; hypersensitivity..delayed hypersensitivity; Hymenoptera; venoms; immunology..antigens; immunological tests

AI-05785 **POULIK, MIROSLAV DAVE, Child Research Cr. of Michigan, Detroit, Mich.**
cell components..cell membrane; proteins; blood cells..erythrocytes; immunology; kidney cells; primates..monkeys; chemical structure--biological activity; leukemia; hemolytic anemia; immunity..autoimmunity; immunology..isoantigens; transplantation immunology

AI-05805 **GARDNER, EDWARD, Jr., Med. Col. Georgia, Augusta, Ga.**
bacteria..Calymmatobacterium granulomatis; immunology; bacterial capsule; microbial culture; autolysis; tissue culture; cytopathogenic effect, bacterial; growth, microorganisms; granuloma inguinale

AI-05830 **TREFFERS, HENRY P., Sch. Med., Yale Univ., New Haven, Conn.**
bacteria..Aerobacter aerogenes; Bacteria..clostridium cadaveris; bacteria..Escherichia coli; bacteria..Proteus vulgaris; bacteria..Pseudomonas fluorescens; bacteria..Serratia marcescens; enzymes; immunology..antigen-antibody reactions

AI-05833 **HUNT, WILLIAM B., Jr., Univ. Virginia Hosp., Charlottesville, Va.**
immunology..antigens; skin sensitizing antibody; atopy; binding

AI-05840 **BANOVITZ, JAY, National Jewish Hosp., Denver, Colo.**
immunology..antigens; immunology..antibodies; reaction sites; binding; precipitin technique

AI-05875 **COHN, MELVIN, Salk Inst. Biological Studies, San Diego, Cal.**
research programs; immunology..antibodies; gamma globulin; immunology..antigens; cells; deoxyribonucleic acid; viruses..bacteriophage; proteins

AI-05883 **URSO, PAUL, Col. Arts, Sci., Seton Hall Univ., South Orange, N.J.**
blood cells..plasma cells; cell differentiation; cell division; deoxyribonucleic acid; immunology..antibodies; immunology..antibody inhibitors; nucleic acids analogs; reaction sites; ribonucleic acid

AI-05886 **MALKIEL, SAUL, Memorial Hosp., Worcester, Mass.**
anaphylaxis; immunology; bacteria..Bordetella pertussis; endotoxins; lipopolysaccharides; reaction sites; adjuvants; reticuloendotheliosis; tissue; immunology..antibodies; fractionation

AI-05913 **MURRAY, IRWIN M., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.**
bacteria..Serratia marcescens; colloids; endotoxins; globulins; lipopolysaccharides; mortality; opsonins; reticuloendothelial system; trauma

AI-05949 **CRAIG, JOHN P., State Univ. New York, Brooklyn, N.Y.**
bacteria..Corynebacterium; bacteria..Mycobacterium; immunology..antigens; immunology..antibodies; genetic strains; immunity; diphtheria; epidemiology; immunology..somatic antigens

AI-05982 **COCHRANE, CHARLES G., Scripps Clinic, Res. Fdn., La Jolla, Cal.**
Arthus phenomenon; blood cells..neutrophil leukocytes; glomerulonephritis; hypersensitivity; immunology..antigen-antibody reactions; inflammation; kidney glomerulus; membrane permeability; radiolabeled iodine; vascular disorders; vasoactive agents

AI-05988 **STARR, JASON L., Northwestern Univ. Med. Sch., Chicago, Ill.**
immunology..antibodies; immunology..antigen-antibody reactions; genetics; deoxyribonucleic acid; lymph nodes; messenger ribonucleic acid; proteins; amino acid sequence; chemical structure--biological activity

AI-06004 **SUSSDORF, DIETER H., Cornell Univ. Med. Col., New York, N.Y.**
cell--free systems; immunology..antibodies; cell components..ribosomes; messenger ribonucleic acid; immunology..antigens

AI-06021 **WOOD, HARRISON F., Sch. Med., Yale Univ., New Haven, Conn.**
bacteria..Diplococcus pneumoniae; binding; blood..serum; C reactive proteins; lipids; immunological tests; immunology..antigens

AI-06023 **BOLD, HAROLD C., Grad. Sch., Univ. Texas, Austin, Tex.**
algae; allergens..airborne allergens; axenic culture; cell culture collections; cooperative study; fungi..slime molds; hypersensitivity; immunology..antigen-antibody reactions; pollen; respiratory diseases; taxonomy

AI-06024 **McGOVERN, JOHN P., Univ. Texas Grad. Sch. Biomedical Sci., Houston, Tex.**
algae; allergens..airborne allergens; axenic culture; cooperative study; hypersensitivity; immunology..antigen-antibody reactions; respiratory diseases

AI-06033 **ANDERSON, ROBERT K., Col. Vet. Med., Univ. Minnesota, St. Paul, Minn.**
immunology..antibodies; immunology..antigen--antibody reactions; blood; milk; bacteria..Brucella abortus; brucellosis; host--parasite; immunological tests

AI-06040 **YOUNG, JANIS D., Kaiser Fdn. Res. Inst., San Francisco, Cal.**
viruses..tobacco mosaic virus; immunology..antigens; proteins; amino acid sequence; functional groups; fractionation; immunology..antibodies; mutation; molecular structure

AI-06057 **INGRAHAM, JOSEPH S., Sch. Med., Indiana Univ., Indianapolis, Ind.**
cell differentiation; S7 gamma globulin; S19 gamma globulin; hemolysins; immunological tests; immunology..antibodies; immunology..antigen-antibody reactions

AI-06060 **WEIDANZ, WILLIAM P., Col. Arts, Sci., Louisiana State Univ., Baton Rouge, La.**
immunology..antibodies; bacteria..Gram--negative bacteria; immunological tests

AI-06086 **BROWN, RAY K., Col. Med., Wayne State Univ., Detroit, Mich.**
immunology..antigens; nucleases..ribonuclease; pancreas; chemical structure--biological activity

AI-06095 **TODD, CHARLES W., Univ. Illinois, Urbana, Ill.**
blood proteins..serum proteins; chemical structure; fractionation; 19S gamma globulin; immunology..antibodies; immunology..antigen-antibody reactions; macroglobulins

AI-06097 **SALVAGGIO, JOHN E., Sch. Med., Louisiana State Univ., New Orleans, La.**
asthma; respiratory diseases; epidemiology; disease classification; hypersensitivity; diagnostic tests; smoking; air pollution; geographical sites..Louisiana

AI-06112 **WAKSMAN, BYRON H., Sch. Med., Yale Univ., New Haven, Conn.**
hypersensitivity..delayed hypersensitivity; tuberculin hypersensitivity; autosensitization; tritium; thymus

AI-06116 **MORSE, STEPHEN I., Rockefeller Inst., N.Y.C.**
lymphocyte stimulating factor; bacteria..Bordetella pertussis; blood cells..lymphocytes; reticuloendothelial system; population dynamics, cell

AI-06118 **WIRTZ, GEORGE H., West Virginia Med. Cr., Morgantown, W.Va.**
immunology..complement; hemolysis; chemical structure--biological activity

AI-06125 **THRUPP, LAURI D., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
chronic disease; urinary tract disorders; immunology..antigens; bacteria..L-form bacteria; bacteria..gram-negative bacteria; host-parasite; immunological tests; microbial culture

AI-06139 **PRUZANSKY, JACOB J., Northwestern Univ. Med. Sch., Chicago, Ill.**
immunology..antibodies; ragweed; hypersensitivity; histamine; blood cells..leukocytes; binding; radiolabeled iodine

AI-06150 **RIEKE, WILLIAM O., Sch. Med., Univ. Washington, Seattle, Wash.**
blood cells..plasma cells; blood cells..lymphocytes; ribonucleic acid; proteins; immunology; population dynamics, cell; bacteria..Salmonella; vaccines..pertussis vaccine; cell differentiation; thymectomy; cell division..mitosis; cell dedifferentiation

(contd)

ALLERGY AND IMMUNOLOGY (CONTD)

AI-06154 KRAUSE, RICHARD M., Sch. Med., Washington Univ., St. Louis, Mo.
streptococcal infections; epidemiology; population dynamics, microorganisms; immunology..antigen--antibody reactions; survey; rheumatic fever; children; adults; pharyngitis; penicillin; therapy evaluation; bacteria..Streptococcus; genetic strains; bioassay; geographical sites..Missouri

AI-06173 SCHWARTZ, MICHAEL A., Sch. Pharm., State Univ. New York, Buffalo, N.Y.
drugs hypersensitivity; penicillin; binding; proteins; reaction rates (chemistry); chemical structure

AI-06175 McGREGOR, DOUGLAS D., Sch. Med., Western Reserve Univ., Cleveland, Ohio
blood cells..lymphocytes; transplantation..homotransplantation; transplantation immunology; thoracic duct; population dynamics, cell; hematopoiesis

AI-06213 KOBAYASHI, GEORGE S., Sch. Med., Washington Univ., St. Louis, Mo.
histoplasmin; chemical structure--biological activity; immunology..antigens; fungi..Histoplasma capsulatum; functional groups

AI-06221 LEWIS, F. BRUCE, Univ. California Med. Cr., San Francisco, Cal.
gamma globulin; immunology..antibodies; infant animals..newborn; chemical structure--biological activity; fractionation; amino acid sequence; peptides

AI-06223 BELOFF, RUTH H., Sch. Med., Yale Univ., New Haven, Conn.
immunology..antibodies; macrophages; immunology..antigens; ribonucleic acid; fractionation; cell components..ribosomes; proteins

AI-06249 WHITE, ROBERT G., Univ. Glasgow, Glasgow, Scotland
tuberculin tests; adjuvants; bacteria..Mycobacterium tuberculosis; oligopeptides; polysaccharides; mycolic acid; wax D; fungi..Nocardia; bacteria..Corynebacterium; branched--chain acids; fatty acids; allergic encephalomyelitis

AI-06252 BLUM, LIVIA F., Maimonides Hosp., Brooklyn, N.Y.
blood..serum; anticomplementary factor; immunology..complement; hemolysis; fractionation

AI-06274 MALLEY, ARTHUR, Oregon Regional Primate Res. Cr., Beaverton, Ore.
hypersensitivity; allergens; skin sensitizing antibody; reagin; immunology..hapten; passive sensitization (transfer) factor; chemical structure--biological activity; primates..Macaca mulatta

AI-06281 NISONOFF, ALFRED, Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
immunology..antibodies; molecular structure; functional groups; amino acid sequence; chemical structure--biological activity; gamma globulin

AI-06307 JERNE, NIELS K., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
immunology..antibodies; lymphatic tissue; cell differentiation; immunological tests; instrumentation--methodology; blood cells..erythrocytes; cell components..ribosomes

AI-06320 RUSSELL, PAUL S., Massachusetts General Hosp., Boston, Mass.
research programs; clinical research centers; kidney transplantation; transplantation immunology; immunology..antigen--antibody reactions; transplantation..homotransplantation; immunological tests; histocompatibility; leurocristine; vincaleukoblastine; therapy evaluation; drugs

AI-06346 IVLER, DANIEL, Sch. Med., Univ. Southern California, Los Angeles, Cal.
bacteria..Hemophilus influenzae; bacteria..Neisseria meningitidis; bacteria..Diplococcus pneumoniae; hemagglutinins; hemagglutination inhibition; blood cells..erythrocytes; cell components..cell capsule; fractionation; chemical structure--biological activity

AI-06348 ELDERING, GRACE, Michigan Dept. of Health, Grand Rapids, Mich.
ions..cation; bacteria..Bordetella pertussis; cell components..cell wall; immunology..antigens; fractionation; calcium; immunology..antigen--antibody reactions; vaccines..pertussis vaccine

AI-06349 PENSKY, JACK, Sch. Med., Western Reserve Univ., Cleveland, Ohio
immunology..complement; esterases; enzyme inhibitors..antiesterases; functional groups; chemical structure--biological activity; amino acid sequence

AI-06354 LITTLE, J. RUSSELL, Jr., Washington Univ. Sch. Med., St. Louis, Mo.
immunology..antibodies; immunology..antigens; 2,4--dinitrophenol; trinitrobenzene compounds; chemical structure--biological activity; molecular structure; amino acid sequence; immunological tests

AI-06357 SKARNES, ROBERT C., Beth Israel Hosp., Boston, Mass.
bacteria..Salmonella enteritidis; endotoxins; functional groups; chemical structure--biological activity; enzymes; blood cells..leukocytes; blood..serum; calcium; immunology; fractionation; detoxication

AI-06359 SALZMAN, THEODORE C., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
immunology..antigens; immunology..antibodies; polysaccharides; bacteria..Diplococcus pneumonia; instrumentation--methodology; immunology..antibody inhibitors; transplantation immunology

AI-06436 HOFFMANN, LOUIS G., Col. Med., State Univ. Iowa, Iowa City, Iowa
immunology..antigen--antibody reactions; immunology..complement; immunology..antibodies; chemical structure--biological activity; immunology..hapten

AI-06443 SZULMAN, ARON E., Magee Women's Hosp., Pittsburgh, Pa.
blood groups; immunology..antigens; embryology; immunofluorescence; immunology..antigen--antibody reactions; maternal--fetal

AI-06455 WAKSMAN, BYRON H., Sch. Med., Yale Univ., New Haven, Conn.
hypersensitivity..delayed hypersensitivity; cell differentiation; allergic encephalomyelitis; skin; allergic arthritis; passive sensitization (transfer) factor

AI-06464 LINSCOTT, WILLIAM D., Univ. California Med. Cr., San Francisco, Cal.
immunology..complement; chemical structure--biological activity; immunological tests; functional groups

AI-06471 HILDRETH, EUGENE A., Hosp., Univ. Pennsylvania, Philadelphia, Pa.
infant human; medical records; bronchiolitis; asthma; respiratory diseases; longitudinal study; hypersensitivity; diagnostic tests; therapy evaluation; adrenal cortex hormones; children

AI-06487 WATSON, DENNIS W., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
endotoxins; exotoxins; bacteria..Gram--negative bacteria; bacteria..Streptococcus; host--parasite; hypersensitivity; immunology; chemical structure--biological activity; functional groups; precipitation; toxicology

AI-06501 PAPERMASTER, BENJAMIN W., Col. Letters, Sci., Berkeley, Cal.
blood cells..lymphocytes; cell differentiation; immunology..antibodies; bioassay; population dynamics, cell; genetics; mutation; organic compounds; x--rays

AI-06502 AL-ASKARI, SALAH, New York Univ. Med. Cr., New York, N.Y.
histocompatibility; transplantation..homotransplantation; immunology..antigens; cell components..microsomes; cell components..mitochondria; spleen; passive sensitization (transfer) factor; cell migration; antimetabolites; genetic strains; skin transplantation; kidney transplantation

AI-06510 DAVID, JOHN R., Sch. Med., New York Univ., New York , N.Y.
hypersensitivity..delayed hypersensitivity; cell migration; passive sensitization (transfer) factor; immunology..antigens; blood cells; peritoneal fluid; transplantation..homotransplantation; enzymes; antibiotics; tissue culture; skin transplantation; kidney transplantation

AI-06525 STIMPFLING, JACK H., Jackson Laboratory, Bar Harbor, Maine
immunology..isoantigens; transplantation immunology; histocompatibility; genetics..genes; immunological tests; genetic strains

AI-06534 ALLEN, PETER Z., Sch. Med., Univ. Rochester, Rochester, N.Y.
globulins..serum globulin; gamma globulin; immunology..antibodies; chemical structure--biological activity; immune sera

AI-06536 WALLACE, JOHN H., Meharry Med. Col., Nashville, Tenn.
bacteria..Mycobacterium leprae; bacteria..Mycobacterium lepraemurium; fractionation; immunology..antigens; immunology..antigen--antibody reactions; serology

AI-06538 GOREN, MAYER B., National Jewish Hosp., Denver, Colo.
bacteria..Mycobacterium; bacteria..Mycobacterium tuberculosis; genetic strains; surface properties; sulfolipids; chemical structure--biological activity; cell components..cell wall; virulence, microorganisms; ion exchange and transport

AI-06544 LENNOX, EDWIN S., Salk Inst. Biol. Studies, San Diego, Cal.
immunology..antibodies; immunology..antigens; viruses..bacteriophage T; viruses..influenza viruses; genetics; bioassay; molecular structure; gamma globulin; single cell analysis; spleen; cell differentiation; gamma globulin 7s; gamma globulin 19s; lymph nodes; research programs

AI-06552 JUTILA, JOHN W., Montana State Col., Bozeman, Mont.
homologous wasting disease; bacteria..enterobacteria; host--parasite; germ--free; infant animals..newborn; genetic strains

AI-06556 HAVAS, H. FRANCIS, Sch. Med., Temple Univ., Philadelphia, Pa.
immunity; immunology..antigens; immunology..antibodies; immunology..antigen--antibody reactions

AI-06561 HARRISON, HOWARD N., Sch. Med., Tufts Univ., Boston, Mass.
transplantation immunology; histocompatibility; immunological tests; cell culture; blood cells..lymphocytes; immunology..antigens; genetic strains; cell division..mitosis; deoxyribonucleic acid; gamma globulin; thymidine; skin transplantation

AI-06609 TUFFANELLI, DENNY L., Univ. California Med. Cr., San Francisco, Cal.
syphilis; biologic false positive reaction; longitudinal study; immunological tests; gamma globulin; serology; immunity..isoimmunity; immunology..autoantibodies; genetics..population genetics, human

AI-06610 WOFSY, LEON, Univ. California, Berkeley, Cal.
polysaccharides; immunology..antigens; immunology..antibodies; immunology..hapten; reaction sites; functional groups; ligands; immune sera; bacteria..Diplococcus pneumoniae; peptides

AI-06644 HALAC, ELIAS, Jr., New York Univ. Med. Cr., New York, N.Y.
ribonucleic acid; macrophages; immunology..antigens; chemical structure--biological activity

AI-06659 SINGER, S. JONATHAN, Univ. California, La Jolla, Cal.
immunology..antibodies; reaction sites; chemical structure--biological activity; peptides; amino acid sequence; 2,4--dinitrophenol; azobenzene--arsonate

AI-06703 SHORTER, ROY G., Mayo Fdn., Rochester, Minn.
histocompatibility; diagnostic tests; fibroblasts; blood cells..lymphocytes; genetic strains; genetics ..hybrids

AI-06710 SAGE, HARVEY J., Duke Univ. Med. Cr., Durham, N.C.
immunology..hapten; immunology..antibodies; polypeptides..unnatural polypeptides; oligopeptides; proteins; conjugates; reaction sites; immune sera; stereoisomers

AI-06713 SILVERSTEIN, ARTHUR M., Johns Hopkins Hosp., Baltimore, Md.
fetus; skin transplantation; immunology..antibodies; transplantation rejection; hypersensitivity..delayed hypersensitivity; immunity; immunology..antigens; lymphatic tissue; thymus; adjuvants, immunology.. Freund's adjuvant; thymectomy; primates

AI-06720 KENNY, GEORGE E., Sch. Med., Univ. Washington, Seattle, Wash.
bacteria..Mycoplasma pneumoniae; bacteria..Mycoplasma; immunology..antigens; immunological tests; blood.. serum; immune sera; taxonomy

AI-06754 MILGROM, FELIX, Sch. Med., State Univ. New York, Buffalo, N.Y.
transplantation..homotransplantation; transplantation immunology; transplantation rejection; immunology.. antibodies; immunity; cell culture; agglutination reaction (agglutinin); complement--fixation test; skin tests

AI-06771 KIRKPATRICK, CHARLES H., Univ. Kansas Med. Cr., Kansas City, Kans.
blood cells..lymphocytes; tissue culture; transplantation immunology; deoxyribonucleic acid; immunology ..antigens; skin transplantation; genetics; tritium

AI-06786 ROBBINS, JOHN B., Col. Med., Univ. Florida, Gainesville, Fla.
gamma globulin; immunology..antibodies; immunology.. antigens; carbohydrases..lysozyme; diphtheria toxin; bacteria; chemical structure--biological activity; infant human..newborn

AI-06787 PEARLMAN, DAVID S., Univ. Colorado Med. Cr., Denver, Colo.
immunology..antibodies; immunology..heterophilic antibodies; immunology..hapten; gamma globulin; blood cells..erythrocytes; bovine serum albumin

AI-06789 WILLIAMSON, CLARENCE K., Grad. Sch., Miami Univ., Oxford, Ohio
bacteria..Streptococcus mitis; bacteria..Streptococcus salivarius; serotypes; immunology..antigens; polysaccharides

AI-06796 EKSTEDT, RICHARD D., Sch. Med., Northwestern Univ., Chicago, Ill.
homologous wasting disease; lymphatic tissue; infant animals..newborn; thymectomy; hormones; inflammation; vaccines..bacterial vaccines; immunology..antigens; immunology..antibodies

AI-06851 COHEN, EDWARD P., Rutgers State Univ., New Brunswick, N.J.
immunology..antibodies; ribonucleic acid; cell types; genetic strains; spleen; cell culture

AM-00548 WEISER, RUSSELL S., Sch. Med., Univ. Washington, Seattle, Washington
blood cells..erythrocytes; dissociation constants; hemolytic anemia; immunology..antigen-antibody reactions; immunology..autoantibodies; immunology..Ii antigens; iodination; passive sensitization transfer factor; radiolabeled iodine

AM-00727 AXELROD, ABE E., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
skin; hypersensitivity; proteases; enzyme inhibitors; immunology..antibodies; immunology..antigens; lymphatic tissue; transplantation..homotransplantation; dietary deficiency; pyridoxine; skin transplantation

AM-01395 McCLUSKEY, ROBERT T., Sch. Med., New York Univ., N.Y.C.
autosensitization; hypersensitivity..delayed hypersensitivity; gamma globulin; proteins denaturation; arthritis; synovitis; chondroitin sulfate; proteases..papain; vitamin A; cartilage; hypervitaminosis; immunology..antigens; lymphatic tissue; ribonucleic acid

AM-02168 BARDAWIL, WADI A., St. Margaret's Hosp., Boston, Mass.
blood cells..leukocytes; collagen diseases; immunology; lupus erythematosus; serology

AM-02375 TERASAKI, PAUL, Sch. Med., Univ. California, Los Angeles, Cal.
cytotoxicity; immunology..antibodies; immunity; immune sera; skin transplantation; transplantation..homotransplantation; transplantation rejection

AM-02594 FRANKLIN, EDWARD C., Sch. Med., New York Univ., N.Y.C.
chemical structure--biological activity; globulins; immunology..antibodies; rheumatoid factors

AM-03408 COLLINS, ROBERT D., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
blood cells..leukocytes; brain; electrodes; implants; pyrogens; thermoregulation

AM-03491 ERLANGER, BERNARD F., Col. Phys., Surg., Columbia Univ., N.Y.C.
binding; immunology..antibodies; immunology..hapten; steroids

AM-03550 HAYASHIDA, TETSUO, Sch. Med., Univ. California, San Francisco, Cal.
ACTH; bioassay; gonadotropins; growth hormones; immune sera; immunology; LH

AM-03777 MIESCHER, PETER A., Sch. Med., New York Univ., N.Y.C.
blood cells..leukocytes; hypersensitivity..delayed hypersensitivity; immune sera; immunity..autoimmunity; immunology..antigens; lupus erythematosus

AM-04117 BARRETT, JAMES T., Sch. Med., Univ. Missouri, Columbia, Mo.
immunology..antibodies; pancreas; enzymes; pancreatic diseases; immunity..isoimmunity

AM-04195 SHULMAN, SIDNEY, Sch. Med., State Univ. New York, Buffalo, N.Y.
proteins; thyroid gland; immunology..antigens; adrenal glands; immunology..autoimmunology; immunology..antibodies; gamma globulin; molecular structure; insects; venoms

AM-04759 SPIRO, HOWARD M., Sch. Med., Yale Univ., New Haven, Conn.
colitis..ulcerative colitis; rheumatoid factors; thyroid glands; immunology..antibodies; proteins; antinuclear factor, ulcerative colitis

AM-04761 KUNKEL, HENRY G., Rockefeller Inst., N.Y.C.
arthritis..rheumatoid arthritis; connective tissue diseases; immunity..autoimmunity; immunology..complement; immunology..antigen-antibody reactions; immunology..autoantibodies; precipitins; immunological tests

AM-04819 MIESCHER, PETER A., Sch. Med., New York Univ., New York, N.Y.
immunity..autoimmunity; thyroiditis; hepatitis; immunology ..complement; immunological tests; injury; tissue

AM-04866 CHRISTIAN, CHARLES L., Col. Phys., Surg., Columbia Univ., New York, New York
arthritis..rheumatoid arthritis; lupus erythematosus.. systemic lupus erythematosus; cryoglobulin; blood..serum; rheumatoid factors; bacteria; immunity; immunology

AM-05180 SUHRLAND, LEIF G., Highland View Hosp., Cleveland, Ohio
intrinsic factor; pernicious anemia; radiolabeled; stomach..gastric juice; immunology; cell types

AM-05358 LEWIS, ROSCOE W., Sch. Agr., Prairie View AM Col., Prairie View, Tex.
transplantation..homotransplantation; transplantation immunology; age; genetics; antimetabolites; methotrexate; 6--mercaptopurine; metal complexes; platinum; blood cells..leukocytes

AM-05418 AZAR, HENRY A., Francis Delafield Hosp., New York, N.Y.
thymus; immunology..antigen--antibody reactions; gamma globulin; thymectomy; blood cells..lymphocytes; lymph nodes; hematopoiesis

AM-05425 HOLMAN, HALSTED R., Sch. Med., Stanford Univ., Stanford, Cal.
transplantation immunology; lupus erythematosus.. systemic lupus erythematosus; immunology..antigens; cell components..cell nucleus; immunity..autoimmunity

AM-05819 HOROWITZ, MARTIN I., New York Med. Col., New York, N.Y.
mucin; salivary glands; bile; gastrointestinal system; fractionation; chemical structure--biological activity; immunology

AM-06052 SINGER, JACQUES M., Montefiore Hosp., Bronx, N.Y.
rheumatoid factors; immunological tests; latex particles; albumins; gamma globulin; hemagglutination; immunology.. antibodies

AM-06229 FARR, RICHARD S., Grad. Sch., Scripps Clin. Fdn., La Jolla, Cal.
arthritis..rheumatoid arthritis; albumins..serum albumins; chemical structure--biological activity; immunology..antibodies; acriflavine; radiolabeled iodine; vaccines..oral vaccines; sodium acetrizoate; binding; equilibrium dialysis

AM-06380 ORESKES, IRWIN, Mount Sinai Hospital, N.Y.C.
arthritis..rheumatoid arthritis; connective tissue diseases; gamma globulin; hemagglutination; hydrogen-ion concentration; ionic strength; proteins; proteins denaturation; rheumatoid factors; temperature

AM-06448 ARGYRIS, BERTIE F., Col. Lib. Arts, Syracuse Univ., Syracuse, N.Y.
cytology; histocompatibility; infants (animals)..newborn; lymphatic tissue; radiation effects; skin; transplantation.. homotransplantation; x-rays

AM-06450 SHARP, JOHN T., Col. Med., Baylor Univ., Houston, Tex.
rheumatic diseases; kidney disorders; bacteria..Streptococcus group A; nephrotoxins; immunology..antibodies; glomerulonephritis; bacteria..L--form bacteria; bacteria..Mycoplasma

(contd)

ALLERGY AND IMMUNOLOGY (CONTD)

AM-06550 WIGLEY, RICHARD A., Palmerston North Med. Res. Fdn., Palmerston North, New Zealand
lupus erythematosus; genetics..hybrids; disease transmission; reticuloendothelial system; immunology..autoantibodies; nucleic acids; therapy

AM-06687 KELLY, WILLIAM D., Univ. Minnesota Hosp., Minneapolis, Minn.
thymectomy; infant animals; age; lymphatic tissue; hematology; transplantation rejection; skin tests; radiation effects; blood proteins..serum proteins; immunology

AM-06726 SHULMAN, LAWRENCE E., Johns Hopkins Hosp., Baltimore, Md.
arthritis..rheumatoid arthritis; genetics; hepatitis; immunological tests; lupus; lupus erythematosus.. systemic lupus erythematosus; Sjogren's syndrome; struma lymphomatosa

AM-06764 TREADWELL, PERRY E., Sch. Med., Emory Univ., Atlanta, Ga.
anaphylaxis; cell culture; immunology..antigen-antibody reactions; membrane permeability; reticuloendothelial system

AM-06939 FISHER, JOHN H., Boston Floating Hosp., Boston, Mass.
thymectomy; transplantation..homotransplantation; skin transplantation; infant animals..newborn; fetus; immunology..antibodies; transplantation immunology

AM-06962 SCHWANDT, ALLEN L., Sch. Med., Loma Linda Univ., Los Angeles, Cal.
electron microscopy; ferritin labeled antibody technique; immunology..antigen-antibody reactions; thyroid gland; thyroiditis..allergic thyroiditis

AM-06971 TAYLOR, KEITH B., Palo Alto Stanford Med. Cr., Palo Alto, Cal.
colitis..ulcerative colitis; diet; gastroenteritis; genetics; hypersensitivity; immunology..antibodies; longitudinal study; malabsorption syndromes; proteins; sprue

AM-07144 CARCASSI, UGO E.F., Viale S. Vincenzo, Cagliari, Italy
thalassemia; therapy evaluation; hematopoietic tissue transplantation; histocompatibility; blood cells; hemoglobin; infants, human..newborn; diagnostic tests; immune sera; genetics

AM-07173 ROGERS, WAID, Col. Med., Univ. Minnesota, Minneapolis, Minn.
histocompatibility; transplantation..homotransplantation; skin; liver; radiation effects; therapy; antibiotics; immunology..antigen-antibody reactions; hematopoietic tissues; hemoglobin; homologous wasting disease; genetic strains

AM-07241 WALZER, RICHARD A., Col. Phys. Surg., Columbia Univ., New York, N.Y.
transplantation..homotransplantation; immunity..autoimmunity; skin transplantation; fetus; keratins; genetic strains; serology; homologous wasting disease

AM-07268 HOWIE, JOHN B., Univ. Otago Med. Sch., Dunedin, New Zealand
immunity, autoimmunity; hemolytic anemia; genetics.. hybrids; genetic strains; kidney disorders; lupus erythematosus; steroids; chemotherapy; transplantation, homotransplantation; thymus

AM-07305 AMINOFF, DAVID, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
mucopolysaccharides; blood groups; sugar sequence; enzymes; genetics; glycoproteins

AM-07317 ZUKOSKI, CHARLES F., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
kidney; skin; transplantation..homotransplantation; antimetabolites; steroid hormones; transplantation immunology; blood cells..thrombocytes

AM-07372 WILLIAMS, RALPH C., Jr., Univ. Minnesota Hosps., Minneapolis, Minn.
gamma globulin; proteolysis; rheumatoid factor; immunology..autoantigens; immunology..isoantigens; arthritis..rheumatoid arthritis; immunology..antigen-antibody reactions; albumins

AM-07432 HULKA, JAROSLAV F., Magee-Womens Hosp., Pittsburgh, Pa.
immunology; ovulation inhibitors; progestins; estradiol; adrenal cortex hormones; progesterone; 17α--hydroxyprogesterone caproate; transplantation rejection; endometriosis; 17α--hydroxy--6α--methylprogesterone; norethynodrel; ethynyl estradiol

AM-07433 DAMESHEK, WILLIAM, New England Cr. Hosp., Boston, Mass.
age; blood cells..lymphocytes; blood cells..plasma cells; bovine serum albumin; estrogens; homologous wasting disease; hypersensitivity..delayed hypersensitivity; hypogammaglobulinemia; leukopenia; lymphatic tissue; radiolabeled iodine; sex difference; testosterone; thymectomy

AM-07497 MARKOWITZ, HAROLD, Mayo Assn., Rochester, Minn.
chemical structure; complement-fixation tests; fungi.. Histoplasma capsulatum; histoplasmosis; immunology.. antigens; microbial culture; mycelium; polysaccharides; precipitin technique

AM-07501 GRANT, LESTER H., New York Univ. Med. Cr., New York, N.Y.
immunology..antibodies; ferritin; inflammation; transparent chamber technique; endotoxins; tuberculin hypersensitivity; allergic encephalomyelitis; adjuvants.. Freunds adjuvant; immunity..autoimmunity; Shwartzman phenomenon; endothelium; thromboembolism

AM-07506 HEIMER, RALPH, Seton Hall Col. Med., Dent., Jersey City, N.J.
macroglobulins; connective tissue diseases; molecular weight; amino acid; Bence--Jones protein; chemical structure; aging; rheumatoid factors; complement--fixation tests

AM-07529 CLAMAN, HENRY N., U. Colorado Med. Cr., Denver Colo.
age; bovine gamma globulin; histocompatibility; immunology..antibodies; immunology..antigens; radiolabeled iodine; thymectomy; thymus

AM-07534 POWELL, ARNOLD E., Sch. Med., Western Reserve Univ., Cleveland, Ohio
S--ethylcysteine; proteins; bacteria..Escherichia coli; reaction sites; immunology..antibodies; amino acid; molecular structure; radiolabeled sulfur; peptides

AM-07572 ZIMMERING, PAULA E., Col. Phys., Surg., Columbia Univ., New York, N.Y.
blood..serum; fractionation; hormones inhibitors; immunology..antibodies; immunology..antigen-antibody reactions; steroid hormones; testosterone

AM-07574 NAJARIAN, JOHN S., Med. Sch., Univ. California, San Francisco, Cal.
transplantation rejection; hypersensitivity..delayed hypersensitivity; lymphatic tissue; passive sensitization transfer factor; millipore filters; tritium; immunology.. antibodies

AM-07618 GERSHOFF, STANLEY N., Sch. Publ. Hlth., Boston, Mass.
amino acid; chemical structure; dietary deficiency; immunology..antibodies; immunology..antigen-antibody response; immunology..antigens; polypeptides..unnatural polypeptides; primates..Cebus monkeys

AM-07629 SULITZEANU, BERNARD, Hadassah Med. Sch., Hebrew Univ., Jerusalem, Israel
connective tissue; immunology..antigens; liver; kidney; skin; lung; arteries..aorta; reaction sites

AM-07644 HALASZ, NICHOLAS A., Harbor Gen. Hosp., Torrance, Cal.
skin transplantation; kidney transplantation; histocompatibility; immunology..antigens; desensitization

AM-07676 PREMACHANDRA, B.N., Veterans Hosp., St. Louis, Mo.
thyroxine; thyroid hormones; immune sera; thyroglobulin; thyroid function; thyroid gland disorders; binding; secretory mechanisms; immunology..autoantibodies

AM-07689 HORNUNG, MARIA, Tulane Med. Sch., New Orleans, La.
immunoelectrophoresis; instrumentation-methodology; diagnostic tests; alpha globulin; beta globulins; C reactive proteins; immunology..antigen-antibody reactions; rheumatic diseases; stress

AM-07705 LANGE, ROBERT D., Eugene Talmadge Mem. Hosp., Augusta, Ga.
bioassay; erythropoietin; immune sera; immunofluorescence; immunological tests; immunology..antibodies; radiolabeled iodine

AM-07755 ANSELL, JULIAN S., Sch. Med., Univ. Washington, Seattle, Wash.
histocompatibility; transplantation..homotransplantation; kidney transplantation; radiation effects; blood cells.. lymphocytes; extracorporeal circulation; primates..baboons

AM-07772 STARZL, THOMAS E., Univ. Colorado Med. Cr., Denver, Colo.
kidney; liver; 6((1-methyl-4-nitro-5-imidazolyl)thio) purine; parathyroid glands; perfusion; prednisone; purine analogs; radiation therapy; spleen; splenectomy; thymectomy; tissue preservation; transplantation.. homotransplantation; transplantation rejection

AM-07856 ANDERSON, RUTH S., Col. Med., Univ. Utah., Salt Lake City, Utah
bone marrow; fetus; genetic strains; genetics; hematopoietic tissues; histocompatibility; infants (animal).. newborn; spherocytosis..hereditary spherocytosis; transplantation; tritium

AM-07886 COPPOLA, EDWARD D., Hahnemann Med. Col., Hosp., Philadelphia, Pa.
transplantation..homotransplantation; transplantation rejection; 4--(p(bis(2--chloroethyl)amino)phenyl)--butyric acid; 6--azauridine; prednisone; fetus; infant animals..newborn; thymectomy; kidney transplantation; hyperbaric oxygenation

AM-07937 DAMESHEK, WILLIAM, New England Cr. Hosp., Boston, Mass.
antimetabolites; 6--mercaptopurine; methotrexate; immunity; therapy; autosensitization

AM-07952 JONES, RUSSELL S., Col. Med., Univ. Utah, Salt Lake City, Utah
radiolabeled carbon; tritium; immunology..antibodies; hypersensitivity..delayed hypersensitivity; arthritis ..polyarthritis; reaction sites; bacteria.. mycobacteria, atypical; oils

AM-08014 SHERMAN, JOSEPH D., Framingham Union Hosp., Framingham, Mass.
thymus; immunology..antigen--antibody reactions; immunology..antigens; thymectomy; immunity..autoimmunity; adjuvants immunology..Freund's adjuvant; gamma globulin; hypogammaglobulinemia; transplantation immunology

AM-08054 METZGAR, RICHARD S., Duke University Med. Cr., Durham, N.C.
immunological tests; immunology..antigen antibody reactions; immunology..isoantigens; primates; transplantation..heterotransplantation

AM-08079 SADLER, WILLIAM A., Grad. Sch. Texas Southern Univ., Houston, Texas
cortisone; endocrine glands; eye..anterior chamber; FSH; immunology..antibody inhibitors; 6-mercaptopurine; methotrexate; ovary; 6-thioguanine; transplantation..homotransplantation

AM-08093 HAHN, JEROME JAY, Sch. Med., Univ. Illinois, Chicago, Ill.
amino acid; amino acid sequence; C reactive proteins; CX reactive proteins; carbohydrates; chemical structure-biological activity; immunology..antigen-antibody reactions; liver

AM-08149 BUCK, ANNYE C., Sch. Med., Meharry Med. Col., Nashville, Tenn.
hypersensitivity..delayed hypersensitivity; immunology.. antibodies; lymphatic tissue; ribonucleic acid; transformation; transplantation..homotransplantation; skin

AM-08153 BARNETT, EUGENE V., Rochester Gen. Hosp., Rochester, N.Y.
antinuclear factor, rheumatic fever; immunology..autoantibodies; arthritis..rheumatoid arthritis; rheumatoid factor; dermatomyositis; scleroderma; immunity..autoimmunity; lupus erythematosus..systemic lupus erythematosus; liver cirrhosis; gamma globulin; S7 gamma globulin; S19 gamma globulin; nucleoproteins

AM-08158 ORNSTEIN, LEONARD, Mount Sinai Hosp., N.Y.C.
cell; disc electrophoresis; electron microscopy; enzymes; ferritin labeled antibody technique; immunofluorescence; instrumentation-methodology; nucleotides; peptides; proteins

AM-08418 SMILEY, JAMES D., Univ. Texas Southwestern Med. Sch., Dallas, Texas
arthritis..rheumatoid arthritis; immunology.. antigens; synovial membrane; synovitis; immunological tests; viruses; ribonucleic acid; actinomycin D; tritium

AM-08436 GELLER, JACK, Albert Einstein Col. Med., N.Y.C.
somatotropin; age; sex difference; tritium; pituitary gland disorders; diet; diagnostic tests; bioassay

AM-08459 WILHELMJ, CHARLES M., Jr., Sch. Med., Creighton Univ., Omaha, Nebr.
immunology..autoantigens; immunology..antigen--antibody reactions; hypersensitivity; skin; skin diseases

AM-08460 TRAININ, NATHAN, Weizmann Inst. Science, Rehovoth, Israel
thymus; lymphatic tissue; thymectomy; therapy evaluation; micropore diffusion chamber technique; transplantation immunology; infant animals..newborn; hormone\seripheral vascular system

AM-08490 OSTERLAND, C., KIRK, Sch. Med., Washington Univ., St. Louis, Mo.
macroglobulins; immunology; chemical structure--biological activity; genetics; rheumatoid factor; arthritis..rheumatoid arthritis

AM-08516 LAGUNOFF, DAVID, Sch. Med., Univ. Washington, Seattle, Wash.
cell types; immunology..antigens; immunology; antimetabolites; lymphatic system; instrumentation--methodology

AM-08527 FUDENBERG, H. HUGH, Univ. California Med. Cr., San Francisco, Cal.
rheumatoid factor; Gm factor; Inv factor; S7 gamma globulin; S19 gamma globulin; immunity..autoimmunity; immunology..isoantibodies; immunology..autoantibodies; radiolabeled iodine; radiolabeled chromium; blood cells..erythrocytes

AM-08592 KRAUS, LORRAINE M., Sch. Basic Med. Sci., Univ. Tennessee, Memphis, Tenn.
polypeptides; hemoglobin; amino acid sequence; functional groups; immunology..antigens

AM-08597 ORTEGA, LOUIS G., Sch. Med., Emory Univ., Atlanta, Ga.
immunity..hypoimmunity; hypogammaglobulinemia; lymphadenectomy; bursa; thymus; immunology..antigen-antibody reactions; hypersensitivity..delayed hypersensitivity; transplantation immunology; immunological tests

AM-08705 DAVIDSOHN, ISRAEL, Chicago Med. Sch., Chicago, Ill.
hemolytic anemia; immunity..cross immunity; immune sera; blood cells..erythrocytes; immunology..antigens; gastrointestinal surgery; splenectomy

AM-08717 WEIMER, HENRY E., Sch. Med., Univ. California, Los Angeles, Cal.
alpha globulin; blood proteins..serum proteins; turpentine; inflammation; Walker carcinoma 256; liver; spleen; blood..serum

AM-08742 BRAUN, WERNER, Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
macrophages; deoxyribonucleic acid; deoxyribooligonucleotides; immunology..antibodies; thymectomy; transplantation..homotransplantation; host--parasite; bacteria; cytolysis

AM-08763 RUSSE, HENRY PAUL, Sch. Med., Univ. Chicago, Chicago, Ill.
thymus; immunology..antigen--antibody reactions; immunology..antibodies; thymectomy; immunological tests; cell components; transplantation..homotransplantation; spleen; immunity; hormones

AM-08771 EBERT, ROBERT H., Massachusetts Gen. Hosp., Boston, Mass.
inflammation; fever; blood cells..granulocytes; blood cells..lymphocytes; pyrogens; endotoxins; anti--inflammatory agents; hypersensitivity..delayed hypersensitivity

AM-08782 CONLEY, C. LOCKARD, Johns Hopkins Hosp., Baltimore, Md.
pernicious anemia; immunology..autoantibodies; genetics.. genes; age; sex difference; ethnic groups; intestinal absorption; intrinsic factor; stomach; mucous membrane; gastrointestinal disroders; immunological tests

AM-08786 ABRUZZO, JOHN L., Seton Hall Col. Med., Dent., Jersey City, N.J.
amyloidosis; amyloid substance; protozoa.. Leishmania donovani; kidney; reaction sites; immunological tests; rheumatoid factors; radiolabeled carbon; radiolabeled sulfur; tritium

AM-08797 REICHLIN, MORRIS, Col. Med., Univ. Vermont, Burlington, Vt.
hemoglobin; molecular structure; immunology.. antigen--antibody reactions; reaction sites; immunology..antigens; molecular rearrangement

AM-08803 KESSLER, HARRY S., Col. Phys., Surg., Columbia Univ., N.Y.C.
Sjogren's syndrome; immune sera; immunology..antibodies; binding; salivary glands; lacrimal apparatus; adjuvants, immunology..Freund's adjuvant; immunity.. autoimmunity

AM-08804 ATASSI, M. ZOUHAIR, Sch. Dent., State Univ. New York, Buffalo, N.Y.
hemoglobin; myoglobin; immunology..antigen--antibody reactions; chemical structure; peptides; amino acid sequence; fractionation; heme

AM-08805 SISKIND, GREGORY W., Sch. Med., New York Univ., New York, N.Y.
immunity; immunology..antigen--antibody reactions; immunology..antibodies; tissue culture; blood cells.. lymphocytes; macrophages; bovine gamma globulin; infant animals..newborn

AM-08827 TOWNES, ALEXANDER S., Baltimore City Hosp., Baltimore, Md.
synovitis; arthritis..rheumatoid arthritis; immunology..complement; immunology..antigen--antibody reactions; synovial fluid; reaction sites

AM-08836 BINHAMMER, ROBERT T., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
parabiosis; anemia; thymectomy; radiation effects; histocompatibility; drugs; therapy evaluation; blood cells..erythrocytes; cell age; blood vessels shunts; infant animals; radiolabeled chromium; radiolabeled iron; radiolabeled iodine

AM-08837 GOODWIN, WILLARD E., Cr. Health Sci., Univ. California, Los Angeles, Cal.
histocompatibility; immune sera; twins sera; skin transplantation; kidney transplantation; blood cells ..lymphocytes; immunology..antigens; 6--mercaptopurine

AM-08849 ANDERSEN, BURTON R., Rochester Gen. Hosp., Rochester, N.Y.
skin sensitizing antibody; binding; beta globulins; hypersensitivity; ragweed; chemical structure--biological activity

AM-08876 JOHNSTONE, DOUGLAS E., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
thyroiditis..allergic thyroiditis; immunity..autoimmunity; immunology..antibodies; immune sera; radiolabeled iodine; adjuvants, immunology.. Freund's adjuvant; membrane permeability and transport; immunological tests; thyroglobulin; cytotoxicity

AM-08883 STATE, DAVID, Albert Einstein Col. Med., Bronx, N.Y.
transplantation..homotransplantation; transplantation ..autotransplantation; transplantation rejection; transplantation immunology; gastrointestinal transplantation; stomach; intestines..small intestine; intestines..colon; lymphatic tissue; nerves; regeneration

AM-08885 KING, PHYLLIS D., Sch. Med., Univ. Colorado, Denver, Colo.
thymus; endotoxins; immunology..antibodies; bovine gamma globulin; hemagglutination; tissue culture; radiolabeled iodine

AM-08907 THOMPSON, JOHN S., Univ. Chicago, Chicago, Ill.
estrogens; lymphatic tissue; hematopoietic tissues; cell components; bone marrow transplantation: hypersensitivity; radiation effects; thymectomy; infant animals..newborn; homologous wasting disease; maternal--fetal; transplantation immunology

AM-08956 SAMLOFF, I. MICHAEL, Univ. Rochester Med. Cr., Rochester, N.Y.
gastritis; immunity..autoimmunity; immunology..antigen--antibody reactions; proteases..pepsinogen; proteases..pepsin; immune sera; immunological tests; mucous membrane; stomach..gastric juice; serology

AM-08986 ROTHER, KLAUS O., New York Univ. Med. Cr., New York, N.Y.
rabbits; genetic strains; immunology..complement; chemical structure--biological activity; fractionation; transplantation..homotransplantation; reaction sites; glomerulonephritis; immunological tests

(contd)

LISTING OF GENERAL RESEARCH AREAS

ALLERGY AND IMMUNOLOGY (CONTD)

AM-09030 COOPER, EDWIN L., Sch. Med., Univ. California, Los Angeles, Cal.
immunity; immunity..antigen--antibody reactions; phylogeny; poikilotherms; life cycle; annelids; thymus; lymphatic tissue; cell differentiation; blood cells..leukocytes; phagocytosis; transplantation immunology

AM-09057 WHITE, THOMAS G., Southwestern Med. Sch., University of Texas, Dallas, Texas
immunology..antigens; bacteria..Erysipelothrix rhusiopathiae; immune sera; chemical structure--biological activity

AM-09063 MANNICK, JOHN A., Boston Univ. Med. Cr., Boston, Mass.
spleen; lymphatic tissue; cell culture; transformation; transplantation..homotransplantation; histocompatibility; nucleoproteins; ribonucleic acid; reticuloendothelial system transplantation

AM-09067 BLANC, WILLIAM A., Col. Phys., Surg., Columbia Univ., New York, N.Y.
children; pancreatic cystic fibrosis; immunology..antibodies; immunology..autoantibodies; immunology..antigens; immunity..isoimmunity; glycoproteins; secretory mechanisms; autopsy

AM-09112 LISCHNER, HAROLD W., St. Christopher's Hosp. for Children, Philadelphia, Pa.
blood cells..lymphocytes; immunology..antigen--antibody reactions; immunology..isoantibodies; pregnancy..placental transfer; immunological tests; chimeras

AM-09119 MELLORS, ROBERT C., F.D. Wilsen Res. Fdn., New York, N.Y.
immunity..autoimmunity; blood cells..erythrocytes; blood cells..lymphocytes; reaction sites; immunology..antibodies; glomerulonephritis; hemolytic anemia; drugs; immunological tests; immunoglobulins

AM-09144 ZAREM, HARVEY A., Johns Hopkins Hosp., Baltimore, Md.
skin transplantation; transplantation rejection; microcirculation; blood circulation dynamics; hemostasis; endothelium; azaserine; antibiotics..actinomycin C; photomicrography

AM-09157 LEONARD, L. LOUISE, Veterans Admin. Hosp., Albuquerque, N. Mex.
thymus; cell differentiation; blood cells..lymphocytes; transformation; deoxyribonucleic acid; ribonucleic acid; messenger ribonucleic acid; immunology; transplantation..homotransplantation; histocompatibility; genetics..genome; mast cells

AM-09170 GOODMAN, HAROLD S., Michael Reese Res. Fdn., Chicago, Ill.
erythroblastosis fetalis; immunology..Rh antibodies; fractionation; blood groups..Rh factors; infant human; blood cells..erythrocytes; immunological tests

AM-09207 HAMBURGER, ROBERT N., Sch. Med., Univ. California, La Jolla, Cal.
immunity..autoimmunity; immunology..autoantibodies; immunology..autoantigens; immunology..antigen--antibody reactions; foreign proteins; cell death; cytotoxicity; tissue culture; bioassay

AM-09209 PERSELLIN, ROBERT H., Sch. Med., Univ. Oregon, Portland, Ore.
cell components..lysosomes; immunology..antibodies; chemical structure--biological activity; reaction sites; enzymes; immunology..antigen--antibody reactions; inflammation

AM-09238 BRUNKHORST, WILLA K., Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
thymus; hormones; immunology; skin transplantation; thymectomy; lymphatic tissue; reticulum cells; transplantation rejection

AM-09270 CORCOS, JOSUE, New York Med. Col., New York, N.Y.
haptoglobins; binding; hemoglobin; fractionation; chemical structure--biological activity; immunology..antigens; genetics; blood proteins..serum proteins

AM-09271 HOSPELHORN, VERNE D., Will Rogers Hosp., Saranac Lake, N.Y.
thymus; silicon; age

AM-09288 RYAN, WAYNE L., Col. Med., Univ. Nebraska, Omaha, Nebr.
transplantation..homotransplantation; immunology..antibody inhibitors; phenylalanine; phenylethylamines; amino acids; metabolites; isoleucine; leucine; valine; threonine

AM-09289 GENGOZIAN, NAZARETH, Oka Ridge Inst. of Nuclear Studies, Oak Ridge, Tenn.
primates..marmoset; chimeras; breeding cycles; infant animals..newborn; aging; transplantation..homotransplantation; transplantation immunology; skin; radiation effects..whole body radiation; genetics..chromosomes; hematopoietic tissues; immunological tests

AM-09425 VISEK, WILLARD J., Col. Agr., Cornell Univ., Ithaca, N.Y.
amidases..urease; bacteria..Proteus; tuberculosis; brucellosis; immunology..antigen--antibody reactions; bioassay; criteria; beans

AM-09428 ROWLANDS, DAVID T., Jr., Rockefeller Inst., New York, N.Y.
immunology..antibodies; adjuvants, immunology; bacteria..Bacillus Calmette--Guerin; endotoxins; spleen; thymus; adrenalectomy; ribonucleic acid; radiolabeled iodine

AM-09577 HESS, EVELYN V., Cincinnati Gen. Hosp., Cincinnati, Ohio
immunity..autoimmunity; nephrotic syndrome; immunology..antigens; immunology..antibodies; adjuvants, immunology..Freund's adjuvant; kidney; cell components..mitochondria; genetic strains

AM-09703 FRIOU, GEORGE J., Sch. Med., Univ. Southern California, Los Angeles, Cal.
lupus erythematosus; immunity..autoimmunity; hypersensitivity..delayed hypersensitivity; tissue culture; cell components..cell nucleus

AM-09713 FISHER, J. PROCHAZKA, Col. Phys., Surg., Columbia Univ., New York, N.Y.
solutes; skin; skin diseases; keratin; blood proteins..serum proteins; skin transplantation; injuries..burns; autosensitization; immunity..autoimmunity; enzymes

AM-10036 McBRIDE, RAYMOND A., Mount Sinai Hosp., New York, N.Y.
homologous wasting disease; splenomegaly; spleen tissue (cells) transplantation; immunology..antigens; age; immune sera; genetics..karyograms; cell division..mitosis; hormones; bursa

AP-00001 SHELDON, JOHN M., Univ. Michigan Med. Cr., Ann Arbor, Mich.
allergens..airborne allergens; climatron; hay fever..seasonal hay fever; pollen; allergens standardization

CA-01594 KALISS, NATHAN, R.B. Jackson Lab., Bar Harbor, Me.
immunity; neoplasms transplantation; transplantation..autotransplantation; transplantation..homotransplantation; antineoplastic agents; cortisone; transplantation immunology

CA-02151 ALBERT, SAMUEL, Detroit Inst. Cancer Res., Detroit, Mich.
age; breast neoplasms; death; genetic strains; genetics; immunology; infants, animals; leukemia; lymphatic tissue; viruses..oncogenic viruses

CA-02367 WITEBSKY, ERNEST, Sch. Med., State Univ. New York, Buffalo, N.Y.
chemical structure; immunology..antigens; immunology..autoantibodies; neoplasms; tissue

CA-03511 MARTINEZ, CARLOS, Sch. Med., Univ. Minnesota, Minneapolis, Minn.
histocompatibility; transplantation..homotransplantation; sex difference; neoplasms transplantation; blood; skin transplantation; spleen tissue (cells) transplantation

CA-03726 GOLDSTEIN, GERALD, Sch. Med. Univ. Virginia, Charlottesville, Va.
carcinogenesis; immunofluorescence; immunology..antibodies; immunology..antigens; neoplasms; neoplastic growth

CA-03852 BERNFIELD, PETER, Bio-Research Inst., Cambridge, Mass.
blood proteins..plasma proteins; neoplasms; immunology..antigens; host--neoplasm

CA-04100 WEISS, ARTHUR J., Jefferson Med. Col., Philadelphia, Pa.
homologous wasting disease; radiation effects..whole body radiation; bone marrow; transplantation..homotransplantation; transplantation..heterotransplantation; immunology..antibodies; lymph nodes; skin; spleen

CA-04158 PREHN, RICHMOND T., Univ. Washington, Seattle, Wash.
carcinogenesis; carcinogens; immunity..cross immunity; immunology..antigens; neoplasms; phenanthrenes

CA-04469 REIF, ARNOLD E., Boston City Hosp., Boston, Mass.
bioassay; cytotoxicity; genetic strains; hemagglutination; histocompatibility; immunity; immunology..antigens; immunology..antibodies; immunology..heterophilic antibodies; immunology..isoantibodies; neoplasms; neoplastic cells; tissue; neoplasms transplantation

CA-04491 HOAG, WARREN G., R.B. Jackson Lab., Bar Harbor, Me.
virus diseases; bacterial diseases; genetic strains; epizootiology; immunity; infant animals; diarrhea; salmonellosis; neoplasms; pasteurellosis; laboratory animals

CA-04786 BRAUN, WERNER, Grad. Sch., Rutgers Univ., New Brunswick, N.J.
antineoplastic agents; bacteria..Brucella; cytotoxicity; deoxyribonucleic acid; immune sera; immunology..antigens; transformation

CA-04798 KORNGOLD, LEONHARD, N.Y. Hosp., Cornell Med. Cr., N.Y.C.
blood cells..leukocytes; blood proteins..serum proteins; diagnostic tests; haptoglobin; Hodgkin's disease; immunology..antigens; immunological tests; leukemia; macroglobulinemia; macroglobulins; myeloma (bone marrow)..multiple myeloma; myeloma globulins

CA-04799 KORNGOLD, LEONHARD, Hosp. Special Surg., N.Y.C.
peroxidases..myeloperoxidase; blood cells..granulocytes; blood cells..lymphocytes; leukemia..chronic leukemia; leukemia..myeloid leukemia; leukemia..lymphocytic leukemia; immune sera; immunology..antigens; fractionation; starch electrophoresis; macroglobulins; haptoglobin; myeloma globulins; gamma globulin; macroglobulinemia; diagnostic tests

CA-04946 WEILER, EBERHARDT C., Inst. Cancer Res., Philadelphia, Pa.
cell; proteins; immunology..antibodies; immunology..antigens

CA-05060 ATCHLEY, WILLIAM A., Sch. Med., Univ. California, San Francisco, Cal.
nucleoproteins; immunology..antigens; cell components..cell nucleus; neoplasms; cell differentiation; carcinogenesis; immune sera; immunofluorescence; histones; deoxyribonucleic acid; conjugates; proteins; solubility;

CA-05203 ROSE, NOEL R., Sch. Med., State Univ. New York, Buffalo, N.Y.
immunology..antigens; immunology..antibodies; immunology.. autoantibodies; cell types; carcinogens; thyroid gland; L--cells; cytotoxicity; HeLa cells; epithelium; lymph nodes; spleen

CA-05573 DAUSSET, JEAN, Faculty Med., Univ. Paris, Paris, France
blood cells..leukocytes; cell components..cell membrane; immunology..antigens; immunology..isoantigens; skin transplantation; kidney transplantation; transplantation immunology

CA-05660 BREYERE, EDWARD J., American Univ., Washington, D.C.
pregnancy; histocompatibility; genetic strains; transplantation..homotransplantation; transplantation immunology; neoplasms; viruses..oncogenic viruses; carcinogenesis; choriocarcinoma

CA-05698 CHAMBERS, VELMA C., Univ. Washington, Seattle, Wash.
ascites tumors; cell; immunity; immunology..antibodies; immunology..antigens; lymph nodes; macrophages; oncolysis; sarcoma I; transplantation..homotransplantation

CA-05927 BILLINGHAM, RUPERT E., Wistar Inst., Philadelphia, Pa.
transplantation; histocompatibility; passive sensitization transfer factor; genetic strains; immunology..antibodies; transplantation rejection; immunology..antigens; genetics.. sex chromosomes; immunity; transplantation..homotransplantation; pigments; skin; spleen; infant animals; immunofluorescence; blood cells..erythroblasts; lymphatic tissue; fetus; age; cell differentiation; transplantation..heterotransplantation

CA-06165 FELDMAN, MICHAEL, Weizmann Inst., Rehovoth, Israel
mutations; radiation effects; transplantation; bioassay; immunology; histocompatibility; immunology..isoantigens; neoplasms; metastasis; genetics; carcinogenesis; leukemia; immunology..antibodies; chimeras; cell differentiation

CA-06264 SCHEINBERG, LABE C., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
glioma; implants; adjuvants; fractionation; immune sera; neoplasms transplantation

CA-06338 BOYSE, EDWARD A., Sch. Med., New York Univ., N.Y.C.
leukemia; immunology..isoantigens; genetics

CA-06460 JUTILA, JOHN W., Grad. Sch., Montana State Col., Bozeman, Mont.
blood cells..lymphocytes; cinemicrography; cytotoxicity; immunological tests; immunology.. antibodies; macrophages; millipore diffusion chamber technique; neoplastic cells; phase microscopy; sarcoma I; tissue culture

CA-06991 SCHRAM, ALFRED C., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
immunology..hapten; cytolipin H; diagnostic tests; neoplasms; body fluids; immune sera; lactose; cell culture

CA-06996 COHEN, SASSON, Israel Inst. Biological Res., Ness Ziona, Israel
synthesis; antineoplastic agents; purine; pyrimidine; nucleosides; nucleotides; chemical structure--biological activity

CA-07023 GARB, SOLOMON, Sch. Med., Univ. Missouri, Columbia, Mo.
host--neoplasm; immunology..antigens; neoplastic growth; breast neoplasms; electrocoagulation; iodination; oncolysis; adjuvants (immunology)..Freund's adjuvant; immunity..autoimmunity; antineoplastic agents

CA-07116 DABNEY, JOE M., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
neoplastic growth; host-neoplasm; lymphosarcoma.. Murphy-Sturm lymphosarcoma; diffusion chambers; anti-inflammatory agents; adrenal cortex hormones; oncolysis; immunology

CA-07179 AISENBERG, ALAN C., Massachusetts Gen. Hosp., Boston, Mass.
albumins..serum albumins; antimetabolites; bacteria.. diplococcus pneumoniae; Hodgkin's disease; hypersensitivity..delayed hypersensitivity; immunology.. antibodies; polysaccharides; precipitin technique; radiation effects; runt disease; thymectomy

CA-07191 ROSENAU, WERNER, Univ. California Med. Cr., San Francisco, Cal.
blood cells..lymphocytes; cytolysis; enzymes inhibitors; host-neoplasm; immunity; immunology..complement; L-cells; 20-methylcholanthrene; oncolysis; proteases; sarcoma

CA-07371 AMOS, D. BERNARD, Duke Univ. Med. Cr., Durham, N.C.
ascites tumors; neoplastic cells; transplantation rejection; surface properties; immunology.. antibodies; enzymes; genetics

CA-07401 MAHALEY, MOSES S., Jr., Sch. Neurosurgery, Duke Hosp., Durham, N.C.
glioblastome multiforme; blood vessels; stroma; immunology..antibodies; globulins..serum globulins; immune sera; cancer chemotherapy; radiation therapy; radiolabeled iodine

CA-07438 SAKO, KUMAO, Roswell Park Mem. Inst., Buffalo, N.Y.
bone transplantation; dental prosthesis; jaws..mandible; calcification; injury..wound healing; radiolabeled fluorine

CA-07466 SIMMONS, RICHARD L., Columbia Presbyterian Med. Cr., N.Y.C.
histocompatibility; immunology..antigen-antibody reactions; pregnancy, placental; pregnancy..abortion, fetal; radiation effects..whole body radiation; bone marrow; genetic strains; genetics..hybrids; parathyroid glands; thymus

CA-07863 PHILLIPS, MILDRED E., Sch. Med., New York Univ., New York, N.Y.
transplantation..homotransplantation; immunology.. antibodies; cytotoxicity; immune sera; gamma globulin; sarcoma I; blood cells..lymphocytes; radiolabeled iodine

CA-07973 MANSON, LIONEL A., Wistar Inst., Philadelphia, Pa.
transplantation immunology; immunology..antigens; neoplastic cells; tissue; cell components..microsomes; lipoproteins; proteins; cell--free systems

CA-07976 KANDUTSCH, ANDREW A., Jackson Laboratory, Bar Harbor, Maine
immunology..isoantigens; sarcoma I; ascites tumors; spleen; lipoproteins; enzymes; venoms; solubility.. water soluble; transplantation immunology

CA-08074 TOKUDA, SEIKICHI, Col. Med., Univ. Vermont, Burlington, Vt.
transplantation immunology; sarcoma 1; immunology.. complement; immunology..antibodies; transplantation rejection; immune sera; neoplastic growth; histocompatibility

CA-08091 MANNICK, JOHN A., Boston Univ. Med. Cr., Boston, Mass.
age; histocompatibility; lymph nodes; cell; immunology.. antigens; transplantation immunology; skin; 6-mercaptopurine

CA-08126 FONG, JACOB, Col. Letters, Sci., Univ. California, Berkeley, Cal.
neoplastic growth; histiocytes; lymphoma; sarcoma 180; ascites tumors; immunology..antigen--antibody reactions; neoplasms transplantation; genetic strains

CA-08141 REILLY, EMMETT B., Orange County Gen. Hosp., Orange, Cal.
blood groups; immunology..antigens; neoplasms; pregnancy..placenta; histocompatibility

CA-08145 BENNETT, BOYCE P., Albert Einstein Col. Med., New York, N.Y.
transplantation immunology; immunity..isoimmunity; cytolysis; cosonins; neoplasms transplantation; sarcoma; leukemia; immune sera; phagocytosis

CA-08153 HOLMQUIST, NELSON D., Sch. Med., Louisiana State Univ., New Orleans, La.
lymphosarcoma 6C3HED; antineoplastic agents; immune sera; transformation; deoxyribonucleic acid; drugs resistance

CA-08276 KAUFMAN, JOSEPH J., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
transplantation..heterotransplantation; urinary tract transplantation; urinary bladder neoplasms; cheek pouch technique; antineoplastic agents; radiation therapy; therapy evaluation

CA-08357 WEISS, DAVID W., Col. Letters, Sci., Univ. California, Berkeley, Cal.
tuberculosis; immunity; bacteria..Mycobacterium tuberculosis; immunology..antigens; neoplasms; fractionation; histocompatibility; reticuloendothelial system; phagocytes

CA-08498 GRAF, LISELOTTE, Albert Einstein Col. Med., Bronx, N.Y.
lipids; neoplasms; carcinoma; immunology..hapten; cytolipin H; cytolipin G; cerebrosides; lymphosarcoma

CA-09053 SPRUNT, DOUGLAS H., Univ. Tennessee, Memphis, Tenn.
diagnostic tests; cancer; serology; steroids; proteins; conjugates; immunology..antigens; prostate

CC-00115 MILLER, JAMES N., Sch. Med., Univ. California, Los Angeles, Cal.
syphilis; spirochetes..Treponema pallidum; immunology.. antigen-antibody reactions; vaccines; therapy evaluation; radiation effects; immunology..antibodies; lymph nodes

CD-00122 HARVEY, HENRY S., Acton Med. Assoc., Acton, Mass.
disease transmission; infectious diseases; streptococcal infections; serotypes; epidemiology; family; immunology..antigen--antibody reactions; microbial culture; bacteria..Streptococcus; precipitin technique; typing sera; hemolysis

DE-01801 BEUTNER, ERNST H., Sch. Dent., State Univ. New York, Buffalo, N.Y.
bacteria; dental calculus; dental disease..periodontal disease; dental structure..teeth; hypersensitivity; immunofluorescence; immunology..antibodies; immunology.. antigens

DE-02221 SHULMAN, LEONARD B., Sch. Dent. Med., Harvard Univ., Boston, Mass.
dental transplantation; transplantation..homotransplantation; transplantation..autotransplantation; transplantation immunology; dental structure..teeth; dental structure.. alveolus; skin transplantation; dental structure..tooth root; blood vessels revascularization; bone resorption

FR-00137 FAVOUR, CUTTING B., National Jewish Hosp., Denver, Colo
guinea pigs; laboratory animals; genetic strains; genetics..homozygotes; hypersensitivity; aerosols; airborne infections; bacteria..Mycobacterium tuberculosis; transplantation rejection

GM-04704 BOYD, WILLIAM C., Sch. Med., Boston Univ., Boston, Mass.
lectins; plants; chemical structure--biological activity; immunology..antibodies; amino acid sequence; functional groups; blood groups; hemagglutinins; genetics

LISTING OF GENERAL RESEARCH AREAS

ALLERGY AND IMMUNOLOGY (CONTD)

GM-06218 ABELSON, NEVA M., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
blood groups; immunology..antibodies; hemagglutinins; binding; serology; arthritis..rheumatoid arthritis

GM-06309 EVERETT, NEWTON B., Sch. Med., Univ. Washington, Seattle, Wash.
hematopoiesis; nucleotides; blood cells; cell age; lymph; blood; radioautography; lymph nodes; thymus; spleen; bone marrow

GM-06541 FRLAN, LAURA B., Immaculate Heart Col., Los Angeles, Cal.
blood groups; Coombs test; immunology..agglutinins; seeds

GM-06939 BOYD, WILLIAM C., Sch. Med., Boston Univ., Boston, Mass.
immunology..antigens; blood groups..Rh factors; chemical structure; immunology..hapten; immunology..antibodies; proteins; synthesis; erythroblastosis fetalis

GM-10356 AMOS, DENNIS B., Sch. Med., Duke Univ., Durham, N.C.
cytotoxicity; genetics; immunity..autoimmunity; immunology..antibodies; immunology..antigens; pregnancy; transplantation rejection

GM-11423 EICHWALD, ERNST J., Montana Deaconess Hosp., Great Falls, Mont.
genetic strains; genetics..chromosome translocations; genetics..sex chromosomes; histocompatibility; mutations; neoplasms; sex difference; transplantation

GM-11435 CRAIG, JAMES V., Kansas State Univ., Manhattan, Kans.
age; cell; chimeras; genetic strains; genetics..hybrids; hematopoietic tissues; histocompatibility; immunology..antigen-antibody reactions; lymphatic tissue; transplantation

GM-12070 TRIPP, MARENES R., Sch. Arts, Sci., Univ. Delaware, Newark, Del.
mollusks; cell culture; immunology..antibodies; phagocytosis; amebocytes; immunological tests; host--parasite

GM-12074 WIENER, ALEXANDER S., New York Univ. Med. Sch., N.Y.C.
blood groups; primates; classification; immunological tests; immunity..cross immunity; immunity..isoimmunity

GM-12075 HERZENBERG, LEONARD A., Stanford Univ. Med. Cr., Palo Alto, Cal.
globulins; immunology..isoantigens; immunology..isoantibodies; genetics; precipitins; gamma globulin

HD-00031 WILLSON, JOHN T., Sch. Med., Univ. Colorado, Denver, Colo.
spermatozoa; immunology..antigens; immunology..antibodies; antifertility factors; adjuvants, immunology..Freund's adjuvant; uterus; reaction sites; cytotoxicity; immunological tests

HD-00115 HAMASHIGE, SHINICHI, Sch. Med., Univ. California, Los Angeles, Cal.
chorionic gonadotropins; immunological tests; immunology..antigens; immune sera; hemagglutination; hemagglutination inhibition; precipitin technique; proteins denaturation

HD-00146 BRAND, K. GERHARD, Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
skin transplantation; skin; aging; carcinogenesis; microorganisms; skin neoplasms

HD-00287 BREESE, BURTIS B., Univ. Rochester, Rochester, N.Y.
children; streptococcal infections; virulence, microorganisms; disease transmission; immunology; therapy

HD-00384 SMITH, RICHARD, T., Sch. Med., Univ. Florida, Gainesville, Fla.
embryology; phylogeny; immunity; immunology..antigens; histocompatibility; cell; gamma globulin; inflammation; genetics; hypersensitivity; hypogammaglobulinemia; arthritis..rheumatoid arthritis; lupus erythematosus; age; children; ascariasis; virus diseases; blood cells..lymphocytes

HD-00421 GYORGY, PAUL, Philadelphia Gen. Hosp., Philadelphia, Pennsylvania
bacteria..Staphylococcus aureus; immunity; milk; immunology..antibodies; lipopolysaccharides; molecular structure

HD-00534 WALFORD, ROY L., Sch. Med., Univ. California, Los Angeles, Cal.
immunity..autoimmunity; aging; parabiosis; amyloidosis; histocompatibility; spleen; radiation effects..whole body radiation; infant animals; temperature

HD-00703 CHANG, ROBERT S., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
cell culture; aging; transformation; carbohydrates; histogenesis; deoxyribonucleic acid; thymine; hormones; amnion; viruses..SV40 virus; radiation effects; population dynamics, cell

HD-00721 FREDA, VINCENT J., Col. Phys., Surg., Columbia Univ., New York, N.Y.
blood groups..Rh factors; immunology..Rh antibodies; erythroblastosis fetalis; S7 gamma globulin; immune sera; radiolabeled chromium; pregnancy..placental transfer; hemorrhage; longitudinal study; volunteers

HD-00735 GOLDMAN, ARMOND S., Univ. Texas Med. Cr., Galveston, Tex.
hypersensitivity; children; milk; immunology..antibodies; proteins; immunology..antigens; immunological tests

HD-01031 GITLIN, DAVID, Children's Hosp., Pittsburgh, Pittsburgh, Pa.
pregnancy..placental transfer; proteins; molecular size; molecular structure; gamma globulin 19S; insulin somatotropin; chorionic gonadotropin; oxytocin; ACTH; conjugates

HD-01034 GITLIN, DAVID, Children's Hosp., Pittsburgh, Pa.
pregnancy..placental transfer; infant animals; proteins; body fluids; stable isotope labeled bromine; stable isotope labeled iodine; radiolabeled bromine; radiolabeled iodine; neutron activation analysis

HD-01148 RAJAM, P.C., Fdn. for Res. on Nervous System, Boston, Mass.
histogenesis; brain; glycoproteins; reaction sites; immunology..antigens; immune sera; hemagglutination; molecular structure; tritium; radiolabeled iodine

HD-01252 HILDEMANN, W.H., Sch. Med., Univ. California, Los Angeles, Cal.
genetic strains; transplantation immunology; serology; immunology..isoantigens; blood cells; transplantation..homotransplantation; transplantation rejection; poikilotherms; blood cells..lymphocytes; immunology..antigens; thymus

HD-01287 GOODLIN, ROBERT C., Sch. Med., Stanford Univ., Palo Alto, Cal.
immunity..isoimmunity; pregnancy..placental transfer; immunology..isoantigens; immunology..isoantibodies; immune sera; blood cells..erythrocytes; genetics; erythroblastosis fetalis

HD-01535 MERRITT, KATHARINE, Dartmouth Med. Sch., Hanover, N.H.
pregnancy; immunology; adjuvants, immunology; Shwartzman phenomenon; pregnancy toxemias and hypertension..eclampsia

HD-01806 BROWN, EARL B., Montefiore Hosp., Bronx, N.Y.
asthma; children; longitudinal study; genetics..population genetics, human; atopic dermatitis; hay fever; hypersensitivity tests; diet; desensitization; therapy evaluation; infant human; hypersensitivity

HD-01892 MAY, CHARLES D., New York Univ. Med. Cr., New York, N.Y.
hypersensitivity; diagnostic tests; histamine; oxidoreductases..diamine oxidase; milk; children; infant human

HE-00700 VOSTI, KENNETH L., Stanford Med. Cr., Palo Alto, Cal.
bacteria..Streptococcus group A; rheumatic fever; immunology..antigens; immunology..antibodies; nephritis; culture media; bacteria..L--form bacteria; immunofluorescence; glomerulonephritis

HE-01138 WATSON, ROBERT F., Cornell Univ. Med. Col., New York, N.Y.
rheumatic fever; collagen; immunology..antigens; immunology..antibodies; injuries; collagen diseases; species; histogenesis

HE-01771 DAMMIN, GUSTAVE J., Sch. Med., Harvard Univ., Boston, Mass.
transplantation..homotransplantation; spleen tissue (cells) transplantation; liver tissue (cells) transplantation; 6-mercaptopurine; radiation effects..whole body radiation; histocompatibility; fractionation; kidney disorders; congenital abnormalities; genetics; cytology; transplantation..autotransplantation; immunology..antigens; polypeptides

HE-02085 GOOD, R.A., Univ. Minnesota Med. Sch., Minneapolis, Minn.
rheumatic fever; collagen diseases; immunology..antibodies; hypogammaglobulinemia; gamma globulin; dysgammaglobulinemia; electron microscopy; transplantation..homotransplantation; transplantation immunology

HE-02144 FISCHEL, EDWARD E., The Bronx Hosp., N.Y.C.
diabetes; immunology..complement; inflammation; rheumatic diseases; streptococcal infections

HE-02325 HESS, EUGENE L., Worcester Fdn. Exptl. Biology, Inc., Shrewsbury, Mass.
molecules..macromolecules; bacteria..Streptococcus pyogenes; ultrasonics; ribonucleic acid; cell components; cell components..ribosomes

HE-03205 STOCK, AARON H., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
bacteria..Streptococcus group A beta hemolytic; immunology..antigens; rheumatic fever

HE-03291 KRAMPITZ, LESTER O., Sch. Med., Western Reserve Univ., Cleveland, Ohio
bacteria..Streptococcus pyogenes; M protein

HE-03693 YATES, F.E., Sch. Med., Stanford Univ., Stanford, Cal.
anaphylaxis; heart; immunology..antigen-antibody reactions; binding; temperature; alkaline earth metals; enzymes inhibitors; histamine

HE-03709 SLADE, HUTTON D., Sch. Med., Northwestern Univ., Chicago, Ill.
bacteria..Streptococcus; cell components..cell wall; immunology..antigens; carbohydrates; drugs resistance; streptomycin; transformation

HE-03726 KAPLAN, MELVIN H., Western Reserve Univ., Cleveland, Ohio
bacteria..Streptococcus group A; Cx reactive proteins; gamma globulin; heart; hypersensitivity; immunity..autoimmunity; immunology..antigens; rheumatic heart diseases

HE-03919 McCARTY, MACLYN, Rockefeller Inst., N.Y.C.
bacteria..L-form bacteria; bacteria..Streptococcus group A; cell components..cell membrane; cell components..cell wall; cell components..protoplasm; immunology..antigens; viruses..bacteriophage

HE-04164 SIEGEL, ALAN C., Children's Memorial Hosp., Chicago, Ill.
bacteria..Streptococcus group A; pharyngitis; rheumatic fever; glomerulonephritis; immunology.. antibodies; children

HE-04598 HARRIS, T.N., Children's Hosp., Philadelphia, Pa.
rheumatic fever; transplantation..homotransplantation; immunology..antibodies; streptococcal infections; lymph nodes; transplantation immunology; lymphatic tissue transplantation; valvular heart diseases

HE-04785 STEBLAY, RAYMOND W., Sch. Med., Univ. Chicago, Chicago, Ill.
nephrotoxins; immunology..antigens; nephritis; immune sera; species; primates..monkeys; immunity..autoimmunity

HE-05071 MASOUREDIS, S.P., Sch. Med., Univ. California, San Francisco, Cal.
radiolabeled iodine; blood cells..erythrocytes; immunology.. isoantibodies; blood groups..Rh factors; immunology.. antigens; hemolytic anemia; genetics; enzymes

HE-05555 MARKOWITZ, MILTON, Sinai Hosp., Baltimore, Md.
bacteria..Streptococcus; immunology..antibodies; rheumatic fever; children; viruses..bacteriophage

HE-05666 McKAY, DONALD G., Sch. Med., Columbia Univ., N.Y.C.
bacteria; capillaries; cardiovascular diseases; dietary deficiency; endotoxins; histamine; norepinephrine; serotonin; Shwartzman phenomenon; tocopherol

HE-05667 ROWLEY, DONALD A., Sch. Med., Univ. Chicago, Chicago, Ill.
blood cells..erythrocytes; blood vessels; immunology.. antigens; inflammation; membrane permeability; nephrotic syndrome; vaccines..pertussis vaccine

HE-05739 DAVIES, A. MICHAEL, Hadassah Med. Sch., Hebrew Univ., Jerusalem, Israel
heart diseases; immunology..autoantibodies; immunology.. antigens; immunofluorescence; muscle cells; heart

HE-06293 KARUSH, FRED, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
disulfide bonds; peptides; enzymes; immunology.. antibodies; immunology..hapten; bacteria.. Streptococcus pyrogenes; amino acids

HE-06512 RILEY, RICHARD F., Sch. Med., Univ. California, Los Angeles, Cal.
C reactive proteins; bioassay; immunology

HE-06669 PONDMAN, KAREL W., Red Cross Blood Transfusion Service, Amsterdam, The Netherlands
complement-fixation tests; immunology..antibodies; immunology..complement; immunology..antigen-antibody reactions; proteolysis; immune sera; hemolytic anemia; phagocytosis

HE-07004 LYNN, RAYMOND J., Sch. Med., State Univ. South Dakota, Vermillion, S.D.
bacteria..L-form bacteria; bacteria..Streptococcus group A beta hemolytic; immunology..antigens; immunology..antibodies; rheumatic fever; nephritis

HE-07288 KANTOR, FRED S., Sch. Med., Yale Univ., New Haven, Conn.
M protein; blood coagulation..fibrinogen; glomerulonephritis; immunofluorescence; hypersensitivity

HE-07428 SHELLEY, WALTER B., University Hosp., Philadelphia, Pa.
atherosclerosis; atopic dermatitis; blood cells..basophil leukocytes; blood disorders; colitis..ulcerative colitis; cytology; diagnostic tests; drugs; fever; headache.. migraine; heparin; histamine; hypersensitivity..immediate hypersensitivity; immunological tests; lipids; penicillin

HE-07533 MARKOWITZ, MILTON, Johns Hopkins Hosp., Baltimore, Md.
children; congenital heart disease; immunology; rheumatic fever; streptococcal infections; viruses

HE-07728 COHEN, ELIAS, Hlth. Res., Inc., Buffalo, N.Y.
hemagglutinins; leuko-agglutinins; ion; hydrogen-ion concentration; temperature; hemocyanin; fractionation; blood groups; cell age; hemoglobinopathy; neoplasms; species; immunological tests

HE-08027 KRAUSE, RICHARD M., Sch. Med., Washington Univ., St. Louis, Mo.
bacteria..Streptococcus group A; M protein; chemical structure--biological activity; immunology; bacteria.. Streptococcus group C; genetic strains; bacterial capsule; lysogeny; bacteria..Streptococcus group G; cell components..cell wall; carbohydrates; bacteria.. Streptococcus group MG; gamma globulin; virulence, microorganisms; viruses..converting viruses

HE-08082 BOAKE, WILLIAM C., University Hosp., Madison, Wis.
cardiotomy; catecholamines; heart; histocompatibility; immunology..antigens; infants, animals..newborn; 6-mercaptopurine; 6-((1-methyl-4-nitro-5-imidazolyl) thio)-purine; thymectomy; transplantation..homotransplantation

HE-08284 VANACE, PETER W., Children's Hosp. Philadelphia, Philadelphia, Pa.
arthritis; bacteria..Streptococcus pyogenes; connective tissue; electrocardiography; endocarditis; hypersensitivity; immunology; primates..monkeys; rheumatic diseases; serology

HE-08896 PAGE, LOT B., Massachusetts Gen. Hosp., Boston, Mass.
renal hypertension; angiotensin; immunology..antibodies; binding; amino acid; aldosterone; bioassay

HE-09143 JOHNSON, ARTHUR G., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
serology; bioassay; proteases..renin; body fluids

HE-09353 KUSHNER, IRVING, Metropolitan Gen. Hosp., Cleveland, Ohio
heart..myocardium; immunology..antigens; enzymes; reaction sites; cell components; phylogeny; rheumatic fever; myocardial infarct; cardiotomy; surgery.. postoperative; fetus

HE-09393 BURMAN, SHELDON O., New York Med. Col., New York, N.Y.
heart transplantation; transplantation..homotransplantation; heart valves..aortic valve; transplantation rejection; tissue preservation; antisepsis; propiolactone; ethylene oxide; blood circulation dynamics; valvular heart diseases

HE-09561 STOLLERMAN, GENE H., Col. Med., Univ. Tennessee, Memphis, Tenn.
bacteria..Streptococcus group A; immunology..antibodies; rheumatic fever; phagocytes; vaccines; M protein; immunity

HE-09712 WARREN, BERT, New York Med. Col., Welfare Island, N.Y.
proteases..renin; enzyme inhibitors..antirenin; renal hypertension; immunological tests; blood pressure; bioassay

HE-10036 LALEZARI, PARVIZ, Montefiore Hosp., New York, N.Y.
blood cells..leukocytes; immunology..antigens; agglutination reaction (agglutinin); immunodiffusion; sulfhydryls; blood transfusion

HE-10047 HALLER, J. ALEX, Jr., Johns Hopkins Hosp., Baltimore, Md.
hemologous wasting disease; spleen; splenectomy; infant animals, newborn; passive sensitization

HE-10049 [illegible]SE, JANE H., Col. Phys., Surg., Columbia Univ., New York, N.Y.
immunology..complement; immunology..antigens; gamma globulin; complement--fixation tests; reaction sites; lupus erythematosus; amyloidosis; hemolytic anemia; immunity..autoimmunity; proteins; cytotoxicity

HE-10080 GLENCHUR, HARRY, City Hope Med. Cr., Duarte, Cal.
streptococcal infections; glomerulonephritis; kidney.. glomerulus; basement membrane; immune sera; immunological tests; immunology..antigens; adjuvants, immunology.. Freund's adjuvant

NB-00982 LIPTON, MURRAY M., Sch. Med., Univ. Louisville, Louisville, Ky.
allergic encephalomyelitis; adjuvants..Freund's adjuvant; genetic strains; spinal cord; nerves.. demyelination; bacteria..Mycobacterium; bacteria.. Pseudomonas

NB-01565 SCHNEIDER, HOWARD A., Rockefeller Inst., N.Y.C.
allergic encephalomyelitis; environment; genetic strains; nutrition

NB-01646 EHRLICH, GABRIELE F., Col. Phys., Surg., Columbia Univ., N.Y.C.
transplantation rejection; keratoplasty; immunity.. autoimmunity; cytotoxicity; immunology..antigens; eye..cornea; eye..lens; epithelium; immune sera

NB-02042 GOOD, ROBERT A., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
nerves..demyelination; nerves..myelination; brain disorders; allergic encephalomyelitis; pregnancy.. placental transfer; immunity..autoimmunity; brain; adjuvants, immunology; congenital abnormalities; endocrine glands disorders

NB-02545 EINSTEIN, ELIZABETH R., Univ. California Med. Cr., San Francisco, Cal.
allergic encephalomyelitis; proteins; spinal cord; immunological tests; cerebrospinal fluid; immunology

NB-02856 HOWE, ARTHUR F., Retina Fdn., Inst. Biol., Med. Sci., Boston, Mass.
eye..vitreous body; proteins; eye disorders; diagnostic tests; immunological tests

NB-03104 PATERSON, PHILIP Y., Sch. Med., New York Univ., N.Y.C.
allergic encephalomyelitis; passive sensitization transfer factor; lymph nodes; cell; immunology.. antibodies; immunology..antigen-antibody reactions; brain lesions; immune sera

NB-03147 ALVORD, ELLSWORTH C., Jr., Grad. Sch., Univ. Washington, Seattle, Wash.
adjuvants; allergic encephalomyelitis; brain; chemical structure; immunity..autoimmunity; proteins

NB-03960 O'CONNOR, G. RICHARD, Univ. California Med. Cr., San Francisco, Cal.
immunology..antigens; protozoa..Toxoplasma; toxoplasmosis; diagnostic tests; immunological tests

NB-04059 GOODNER, ERNEST K., Univ. California Med. Sch., San Francisco, Cal.
eye..lens; fractionation; immunology..antibodies; proteins; uveitis

NB-04087 OSSERMAN, KERMIT E., Mount Sinai Hosp., New York City, N.Y.
myasthenia gravis; immunity..autoimmunity; immunofluorescence; globulins..serum globulins; muscle.. skeletal muscle; diagnostic tests; therapy; S7-gamma globulin

NB-04223 ABERNATHY, ROBERT S., Univ. Arkansas Med. Cr., Little Rock, Ark.
multiple sclerosis; encephalomyelitis; cerebrospinal fluid; immunology..antibodies; brain neoplasms; immunology..antigens

(contd)

LISTING OF GENERAL RESEARCH AREAS

ALLERGY AND IMMUNOLOGY (CONTD)

NB-04542 FEDINEC, ALEXANDER A., Univ. Tennessee Med. Units, Memphis, Tenn.
radioautography; radiolabeled iodine; tetanus antitoxin; tetanus toxin; tritium

NB-04684 CLEASBY, GILBERT W., Presbyterian Med. Cr., San Francisco, Cal.
transplantation..homotransplantation; transplantation immunology; keratoplasty; antimetabolites; steroids; transplantation..heterotransplantation

NB-04747 WACKER, WALDON B., Sch. Med., Univ. Louisville, Louisville, Ky.
eye..cornea; eye..uvea; hypersensitivity..delayed hypersensitivity; immunity..autoimmunity; immunity..isoimmunity; immunology..antibodies; immunology..antigens; ophthalmia sympathetic; serology; transplantation rejection

NB-04867 STEIN, MARVIN, New York Hosp., Cornell Med. Cr., N.Y.C.
conditioning; asthma; pulmonary airway resistance; pulmonary function; hypersensitivity..immediate hypersensitivity; pulmonary ventilation

NB-04891 YAHR, MELVIN D., Col. Phys., Surg., Columbia Univ., N.Y.C.
allergic encephalomyelitis; cerebrospinal fluid; immunity..autoimmunity; immunology..antigen-antibody reactions; multiple sclerosis; nerves..neuroglia; primates..monkeys; serology

NB-05388 TOURTELLOTTE, WALLACE W., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
multiple sclerosis; gamma globulin; cerebrospinal fluid; immune sera; brain; immunology..antibodies; reaction sites

NB-05476 THOMSON, JOHN D., Sch. Med., State Univ. Iowa, Iowa City, Iowa
immunology..antigens; immunology..cytophilic antibody; allergic encephalomyelitis; gamma globulin 19S; nerves..neuroglia; nerves..myelin; agglutination reaction (agglutinin); adjuvants, immunology.. Freund's adjuvant; sodium; potassium

NB-05513 RAUCH, HELENE C., Stanford Univ. Sch. Med., Stanford, Cal.
leukodystrophies; multiple sclerosis; allergic encephalomyelitis; immunology..antigens; immunology.. cytophilic antibody; immunology..complement; gamma globulin; binding; immunity..autoimmunity; nerves.. myelination; tissue culture; blood cells.. lymphocytes; cell division..mitosis; skin tests; hemagglutination; proteins; tritium; radiolabeled iodine

NB-05530 SOMERS, JOHN E., Univ. Missouri Med. Cr., Columbia, Missouri
gangliosides; leukodystrophies; immunology.. antibodies; hemagglutination; complement--fixation tests; epidemiology; multiple sclerosis; amyotropic lateral sclerosis

NB-05531 CASTROVIEJO, RAMON, New York Univ. Med. Cr., New York, N.Y.
keratoplasty; transplantation rejection; transplantation..homotransplantation; transplantation..heterotransplantation; transplantation immunology; antimetabolites; azathioprine

NB-05631 KORNGUTH, STEVEN E., Sch. Med., Univ. Wisconsin, Madison, Wis.
ions..cation; proteins; brain; nerves..myelin; blood cells..lymphocytes; ribonucleic acid; immunology.. antigens; allergic encephalomyelitis; amino acid sequence; chemical structure; multiple sclerosis; immunity..autoimmunity; embryology

NB-06021 ARNASON, BARRY G., Massachusetts Gen. Hosp., Boston, Mass.
thymus; nervous system; virus diseases; gamma globulin 7s; immunoglobulins; immune sera; allergic encephalomyelitis; hypersensitivity..delayed hypersensitivity; reaction sites

OH-00143 VIGLIANI, ENRICO C., Sch. Med., Univ. Milano, Milan, Italy
vegetables; respiratory diseases..acute respiratory diseases; endotoxins; bacteria..Gram-negative bacteria; occupational diseases; bacteria..airborne bacteria; dust; pneumoconiosis

OH-00153 EMANUEL, DEAN A., Marshfield Clinic Fdn., Marshfield, Wis.
maple bark disease; fungi..Coniosporium corticale; spores; occupational hazards; respiratory diseases; immunology.. antigens; chemical structure; epidemiology

OH-00224 LOWNEY, EDMUND D., University Hosp., Ann Arbor, Mich.
contact dermatitis; organic compounds; immunology

RH-00063 LEONE, CHARLES A., Univ. Kansas, Lawrence, Kans.
immunology..antigens; proteins denaturation; gamma rays; molecular structure; chemical structure--biological activity; radiation effects; hemocyanin; viruses.. tobacco mosaic virus; gamma globulin; chromatography; electrophoresis; ultracentrifugation

RH-00311 THOMAS, EDWARD D., Sch. Med., Univ. Washington, Seattle, Wash.
immunology..cross immunity; histocompatibility; radiation effects..whole body radiation; blood transfusion; blood donors; chimeras; typing sera; malabsorption syndromes; chemotherapy; primates; bone marrow transplantation; parabiosis

RH-00403 SHAW, DON H., Carver Res. Fdn., Tuskegee Institute, Ala.
bone marrow transplantation; transplantation immunology; radiation effects; desensitization; bone marrow; blood cells..erythrocytes; chimeras; genetics..hybrids

TW-00068 JURADO-GARCIA, EDUARDO, Hosp. Infantil de Mexico, Mexico, D.F.
infant human..premature infant; blood cells.. erythrocytes; ion exchange and transport; electrolytes; oxygen; dissociation constants; hemoglobin; hyaline membrane disease, pulmonary

ALLERGY AND INFECTIOUS DISEASES TRAINING COMMITTEE

AI-04841 BAKEMEIER, RICHARD F., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
immunology..antibodies; steroid hormones; immunology.. antigen--antibody reactions; cells; immunological tests; immunofluorescence; radioautography; adrenal cortex hormones; hemolytic anemia; lupus erythematosus.. systemic lupus erythematosus; reticulum cell sarcoma; Hodgkin's disease; lymphosarcoma; lymphoma; sarcoidosis; myeloma, bone marrow..multiple myeloma

AI-04842 JACKSON, GEORGE J., Rockefeller Inst., N.Y.C.
helminth culture; nematodes; host-parasite; immunology; nutrients

AM-07500 WARWICK, WARREN J., Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
hypersensitivity..delayed hypersensitivity; passive sensitization; transplantation rejection; bacteria.. Streptococcus; adjuvants..Freund's adjuvant; endotoxins; streptokinase; lymph nodes

ALLERGY AND INFECTIOUS DISEASES PROGRAM-PROJECT COMMITTEE

AI-04153 EAGLE, HARRY, Albert Einstein Col. Med., Yeshiva Univ., New York City, New York
cell culture; amino acid; proteins; growth factors; viruses..poliomyelitis virus; molecular structure; genetics..chromosomes; mutations; metabolic diseases; research programs

AI-05780 CLUFF, LEIGHTON E., Johns Hopkins Hosp., Baltimore, Md.
bacteria..Escherichia coli; bacteria..Mycoplasma; blood proteins..serum proteins; chemotherapy; cholecystitis; diagnostic tests; epidemiology; heart diseases; hospitals infections; hypersensitivity; immunology; infectious diseases; listeria infections; medical records; mortality; pneumonia..atypical pneumonia; pregnancy; research programs; respiratory diseases; serology; therapy evaluation; viruses

AI-05861 SHERMAN, WILLIAM B., Roosevelt Hosp., N.Y.C.
acetylsalicylic acid; allergens..air-borne allergens; asthma; bacteria; blood cells..basophil leukocytes; bronchitis; cooperative study; diagnostic tests; glomectomy; hay fever; hemagglutination; histamine; hypersensitivity; immunology..antigen-antibody reactions; immunology..blocking antibodies; longitudinal study; passive sensitization; penicillin; pregnancy..placenta; pulmonary emphysema; pulmonary function; radiolabeled iodine; research programs; respiratory diseases; skin sensitizing antibody; skin tests; therapy evaluation

AI-05876 FRANCIS, THOMAS, Jr., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.
research programs; virus diseases; host-virus; cytopathogenic effect, viral; virus inhibitors; immunology..antigen-antibody reactions; viruses..polyoma virus; viruses..poliomyelitis virus; viruses..vaccinia virus; viruses..SV40 virus; primates..monkeys; epidemiology; geographical sites..Michigan; ecology, human

AI-05877 JANEWAY CHARLES A., Children's Hosp. Med. Cr., Boston, Mass.
research programs; immunity; pregnancy..placental transfer; S7 gamma globulin; S19 gamma globulin; radiolabeled iodine; infant human; gastrointestinal system; membrane permeability and transport; chemical structure--biological activity; hypersensitivity..delayed hypersensitivity; blood cells.. lymphocytes; thymus transplantation; immunology.. antibodies; transplantation immunology; cell components..cell wall; bacteria..Escherichia coli; immunology..antigens; immunology..antigen-antibody reactions; lymph nodes; children; congenital abnormalities; hypogammaglobulinemia; infectious diseases; immunity..autoimmunity; hemolytic anemia; rheumatic fever; toxins; arthritis

AI-06048 STERNBERG, THOMAS H., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
research programs; fungi..Pityrosporum; genetic strains; fungi..Candida albicans; fungi..Coccidioides immitis; host--parasite; immunology; serology; skin diseases; instrumentation--methodology; growth, microorganisms; blood..serum; chemical structure--biological activity; cell components; pigments

AI-06063 KELLY, WILLIAM D., Univ. Minnesota Hosps., Minneapolis, Minn.
research programs; transplantation..homotransplantation; kidney; histocompatibility; immunological tests; hypersensitivity..delayed hypersensitivity; skin tests; chemotherapy; 6--((1--methyl--4--nitro--5--imidazolyl) thio) purine; patient care; desensitization

AI-06085 JOHNSON, CHARLES W., Meharry Med. Col., Nashville, Tenn. research programs; allergens..chemical allergens; immunology..antigen-antibody reactions; hypersensitivity ..delayed hypersensitivity; transplantation rejection; immunity..autoimmunity; contact dermatitis; immunological tests; passive sensitization transfer factor; asthma; infectious diseases; primaquine sensitivity

AI-06091 MURRAY, JOSEPH E., Peter Bent Brigham Hosp., Boston, Mass.
chemotherapy; immunology; kidney; liver; longitudinal study; patient care; patient expenses; research programs; skin; transplantation..homotransplantation; transplantation rejection

AI-06587 PROVOST, MAURICE W., Entomological Res. Cr., Vero Beach, Fla.
research programs; mosquitoes; genetic strains; population dynamics, animal; life cycle; ecology, animal; sex difference; aging; nutrition; reproduction; host--parasite; feeding behavior; cyclic functions; triglycerides; fatty acids; phospholipids; chemical structure; glycogen; inositol; body weight; biological control; disease transmission; bioassay

APPLIED PHYSIOLOGY

AC-00212 OUTWATER, JOHN O., Col. Tech., Univ. Vermont, Burlington, Vt.
accidents; safety equipment; instrumentation--methodology; recreation; leg; bone fractures

AI-06780 CHAI, HYMAN, Children's Asthma Res. Inst., Hosp., Denver, Colo.
asthma; children; physical therapy; respiration; exercise; bronchodilators; isoproterenol; therapy evaluation

AM-06724 KARPOVICH, PETER V., Springfield Col., Springfield, Mass.
instrumentation; electrogoniometer; telemetering; body movement; joints; swimming

AM-08310 PAULY, JOHN E., Sch. Med., Tulane Univ., New Orleans, La.
exercise; electromyography; photography; physical fitness; physical therapy

AM-08311 BUSKIRK, ELSWORTH R., Pennsylvania State Univ., University Park, Pa.
obesity; stress; cold; adipose tissue; body weight; thermoregulation

AM-08605 RALSTON, HENRY, Univ. California Med. Cr., San Francisco, Cal.
body movement; muscle; limbs; thorax; gravity

AM-08776 GORDON, EDWARD E., Michael Reese Hosp., Chicago, Ill.
muscles..skeletal muscle; muscles..myofibrils; muscle hypertrophy; exercise; performance; time; muscle proteins; deoxyribonucleic acid

AM-08855 PERRY, JACQUELIN, Attending Staff Assn. of Rancho Los Amigos Hosp., Downey, Cal.
joints..knee; muscles..skeletal muscle; muscle tension; physical therapy; orthopedics; neuromuscular disorders

AM-09114 ROONEY, JAMES R., Col. Agr., Home Ec., Univ. Kentucky, Lexington, Ky.
veterinary medicine; body movement; limbs movement; leg; bone; joints; synovial fluid

CD-00052 MURRAY, M. PAT, Sch. Med., Marquette Univ., Milwaukee, Wis.
body movement; limbs movement; aging; physical fitness; body build; bone disorders; joints diseases; muscular diseases; photography; criteria

CD-00056 ROBINSON, SID, Grad. Sch., Indiana Univ., Bloomington, Ind.
aging; physical fitness; longitudinal study; respiration; heart function; exercise; stress; hematopoiesis; altitude; acclimatization; smoking; obesity; body composition

CD-00081 CONWAY, JAMES F., Univ. Hosp., Ann Arbor, Mich.
hypertension (systemic); exercise; blood vessels vasomotion; heart function; therapy; pulmonary ventilation; oxygen consumption; antihypertensive

CD-00082 SELTZER, CARL C., Sch. Public Hlth., Harvard Univ., Boston, Mass.
children..adolescence; body weight; obesity; education..secondary education; education..curriculum; dietetics; exercise; therapy evaluation; personality; biometry; psychological tests

CD-00089 DAMATO, ANTHONY N., U.S. Pub. Hlth. Service Hosp., Staten Island, N.Y.
exercise; hypertension (systemic); criteria; heart function; oxygen consumption; blood pressure

CD-00150 MAZZARELLA, JOHN A., Sch. Med., Univ. Washington, Seattle, Wash.
electrocardiography; exercise; angina pectoris; oxygen consumption; monitoring; age; sex difference

GM-11266 FAULKNER, JOHN A., Sch. Educ., Univ. Michigan, Ann Arbor, Mich.
education..university students; education..curriculum; physical fitness; attitudes; academic achievement; medical records; personality; longitudinal study

GM-12073 WHITLEY, JIMMIE D., Col. Letters, Sci., Univ. California, Riverside, Cal.
limbs movement; reaction time; physical fitness; training; exercise; adults

GM-12166 CURETON, THOMAS K., Jr., Grad. Col., Univ. Illinois, Urbana, Ill.
leukopenia; blood cells..eosinophil leukocytes; stress; exercise; fatigue; oxygen debt; biochemical oxygen demand; acid--base equilibrium; blood pressure; heart rate; body weight; neuromuscular transmission; adults

GM-12261 CARROW, REXFORD E., Col. Vet. Med., Michigan State Univ., East Lansing, Mich.
exercise; electrostimulus; muscles..myofibrils; muscles..gastrocnemius muscle; tensile strength; nerves; capillaries; implants

GM-12554 FAULKNER, JOHN A., Sch. Educ., Univ. Michigan, Ann Arbor, Mich.
oxygen consumption; physical fitness; exercise; heart function; pulmonary function; body weight; questionnaire; criteria; sex difference

HD-00489 BECHTOL, CHARLES O., Univ. California, Los Angeles, Cal.
limbs..artificial limbs; instrumentation; children; amputation; sweat; thermoregulation; congenital abnormalities

HD-00655 CLARK, ROBERT T., Harding Col., Searcy, Ark.
physical fitness; performance; criteria; biometry; children; adults; longitudinal study

HD-00667 KNUTTGEN, HOWARD G., Grad. Sch., Boston Univ., Boston, Mass.
oxygen consumption; heart rate; exercise; age; children

HD-00997 LAUER, RONALD M., Univ. Kansas Med. Cr., Kansas City, Kans.
children; exercise; physical fitness; age; congenital heart disease; rheumatic heart disease; heart rate; oxygen consumption; diagnostic tests

HD-01516 GROLLMAN, SIGMUND, Sch. Arts, Sci., Univ. Maryland, College Park, Md.
exercise; age; lipids; lipolysis; cholesterol; triglycerides; phospholipids

HD-01613 HOLLOSZY, JOHN O., Sch. Med., Washington Univ., St. Louis, Mo.
exercise; muscles..skeletal muscle; myoglobin; oxidoreductases..lactate dehydrogenase; cell components; mitochondria; aerobiosis; arteries..coronary arteries; peripheral vascular system; longevity; body composition; longitudinal study

HE-02568 ABRAMSON, DAVID I., Univ. Illinois, Med. Cr., Chicago, Ill.
skin; muscles; blood vessels; capillary beds; oxygen consumption; limbs; blood flow; body temperature; vasoactive agents..vasodilators; vasoactive agents.. vasopressors; methacholine; histamine; scleroderma; exercise; fatigue; nicotinic acid; nitrites; papaverine; thyroxine; hypoxia; arterial occlusions; temperature

HE-02800 AUCHINCLOSS, J. HOWLAND, Jr., University Hosp., Syracuse, N.Y.
exercise; pulmonary heart disease; heart rate; heart function; oxygen consumption; carbon dioxide

HE-03224 ELDRIDGE, FREDERIC L., Sch. Med., Stanford Univ., Palo Alto, Cal.
dyspnea; anaerobiosis; muscles; lactates; pyruvate; heart diseases; lung disease; oxygen debt; exercise; reaction sites

HE-05883 SHEPHERD, JOHN T., Mayo Assn., Rochester, Minn.
heart function; blood pressure; blood flow; leg; epinephrine; exercise; oxygen consumption; respiration; hypotension; hypertension (systemic); veins; posture

HE-07474 RANKIN, JOHN, Sch. Med., Univ. Wisconsin, Madison, Wis.
exercise; heart function; pulmonary function; longitudinal study; adults

HE-09405 DUTTON, ROBERT E., Jr., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
exercise; carbon dioxide tension; respiration; oxygen consumption; lung..alveolus; acid--base equilibrium; pulmonary function; pulmonary emphysema

HE-09676 CRAIG, ALBERT B., Jr., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
water; diving reflex; bradycardia; cardiovascular system; exercise; respiration..negative pressure breathing; Valsalva's maneuver; atropine; reserpine; blood vessels vasomotion; heart function; blood pressure; temperature; hypoxia; oxygen consumption; exercise

HE-09759 JOHNSON, WILLARD P., U.S. Pub. Hlth. Service Hosp., Seattle, Wash.
hypertension (systemic); exercise; blood circulation dynamics; oxygen transport; antihypertensive agents; therapy evaluation; Rauwolfia alkaloids; hydrochlorothiazide; fatty acids

NB-02300 CLOSE, JOHN R., Highland-Alameda County Hosp., Oakland, Cal.
instrumentation; muscle contraction; potentials..action potentials; neuromuscular disorders; nerves..axons; electrostimulus; electronic recording

NB-05154 HALLS, ALBERT A., Sch. Med., Creighton Univ., Omaha, Nebr.
facial expression; muscle contraction; muscle..facial muscles; potentials..action potentials; electromyography; Parkinson's disease; cerebrovascular disorders

NB-05649 BARD, GREGORY, Univ. California Med. Cr., San Francisco, Cal.
electromyography; potentials..action potentials; hemiplegia; body movement; muscle stretch receptors; muscle tension; spasm; muscles.. skeletal muscle; brain lesions; rehabilitation

APPLIED PHYSIOLOGY (CONTD)

OH-00006 **ASHE, WILLIAM F.**, Ohio State Univ., Columbus, Ohio
mechanical vibrations; occupational hazards; blood circulation dynamics; respiration; body movement

OH-00048 **BELDING, HARWOOD S.**, Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
heat; sweat; acclimatization; blood circulation dynamics; stress

OH-00179 **HARDY, JAMES D.**, John B. Pierce Fdn. Lab., New Haven, Conn.
psychometrics; thermoregulation; heat exchanger; sensory mechanisms; stress; environment; threshhold; heart rate; blood vessels vasomotion; sweat; respiratory system

ARTHRITIS AND METABOLIC DISEASES PROGRAM-PROJECT COMMITTEE

AM-01431 **McEWEN, CURRIER**, New York Univ. Med. Cr., New York, N.Y.
research programs; rheumatic diseases; retinopathy; antirheumatic agents; orthopedics; therapy evaluation; metabolic diseases; osteogenesis; connective tissue; microorganisms; dysproteinemia; rheumatoid factors; lupus erythematosus..systemic lupus erythematosus; psoriasis; bacteria..mycoplasma

AM-02672 **BURSTEIN, SHLOMO**, Worcester Fdn., Shrewsbury, Mass.
estrogens; androgens; acetates; mevalonic acid; steroid hormones; hydroxylation reactions; dehydroepiandrosterone; cholesterol

AM-03555 **HOLLEY, HOWARD L.**, Univ. Alabama Med. Cr., Birmingham, Ala.
hyaluronic acid; proteins; binding; synovial fluid; proteases..papain; proteases..trypsin; gamma globulin; adrenal cortex hormones; metabolites; connective tissue diseases; arthritis..rheumatoid arthritis; immunology.. antibodies; lupus erythematosus..systemic lupus erythematosus

AM-03563 **DENTON, ROBERT**, Hosp. Univ. Pennsylvania, Philadelphia, Pa.
pancreatic cystic fibrosis; therapy; patient care..home care; aerosols; instrumentation; bronchial mucus; mucous membrane; hospital patients; research programs

AM-03564 **JEANLOZ, ROGER W.**, Massachusetts Gen. Hosp., Boston, Mass.
connective tissue; connective tissue diseases; longitudinal study; molecular structure; mucopolysaccharides; glycoproteins; collagen; growth; embryology; bone; amino sugars; research programs

AM-04150 **ELLISON, EDWIN H.**, Sch. Med., Marquette Univ., Milwaukee, Wis.
peptic ulcer; thrombosis; nutrition; research programs; pancreatitis; peritoneum; intestines; liver; biliary tract; injury..wound healing

AM-04501 **EBERT, R.**, Massachusetts Gen. Hosp., Boston, Mass
research programs; metabolic diseases; laboratory facilities

AM-05576 **LEVINE, RACHMIEL**, New York Med. Col., N.Y.C.
metabolic diseases; nutrition; research programs

AM-05577 **BAYLES, THEODORE B.**, R.B. Brigham Hosp., Boston, Mass.
research programs; rheumatic diseases; patient care; therapy; preventive medicine; blood proteins..plasma proteins; cartilage; bone; pharmacology; endocrine glands; orthopedics; antimetabolites; peripheral vascular system

AM 05578 **FLINK, EDMUND B.**, Sch. Med., West Virginia Univ., Morgantown, W.Va.
acidosis; clinical research centers; dyspnea; electrolytes; extracorporeal circulation; hypocapnia; magnesium; malnutrition; obesity; research programs; steroids; surgery; vasopressin

AM-05581 **CALKINS, EVAN**, The Buffalo Gen. Hosp., Buffalo, N.Y.
research programs; rheumatic diseases; connective tissue diseases; amyloidosis; glycoproteins; chemical structure; purine; ACTH; blood cells..erythrocytes; blood cells.. leukocytes; adrenal glands; proteins; thyroxine; lipids; genetics; thallassemia; hemoglobin; iron

AM-05589 **INGELFINGER, FRANZ J.**, Sch. Med., Boston Univ., Boston, Mass.
research programs; metabolic diseases; gastrointestinal disorders; liver function; bile; gallstones; diet; iodine; thyroid gland disorders; sickle cell anemia; amino acids; ions..cation; kidney function; immunology..antibodies; amyloid substance; rheumatoid factors; blood cells.. lymphocytes

AM-05630 **SCHILLING, ROBERT F.**, Sch. Med., Univ. Wisconsin, Madison, Wis.
arthritis; blood disorders; endocrine glands disorders; metabolic diseases; research programs; obesity; vitamin B12

AM-05664 **LEVENSON, STANLEY M.**, Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
research programs; germ-free; microorganisms; metabolic diseases; injury

AM-05760 **SCHWARTZ, THEODORE B.**, Presbyterian-St. Luke's Hosp., Chicago, Ill.
research programs; carbohydrates; calcium; sodium; hypoglycemia; diabetes; endocrine glands disorders

AM-05864 **ZIFF, MORRIS**, Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
ferritin labeled antibody technique; basement membrane; diabetes; cell components..microsomes; research programs; infectious diseases; electron microscopy; kidney disorders; arthritis..rheumatoid arthritis; synovial membrane; hypersensitivity..delayed hypersensitivity

AM-05979 **BARBERO, GIULIO**, Children's Hosp., Philadelphia, Pa.
pancreatic cystic fibrosis; research programs; exocrine glands; therapy

AM-05996 **DORFMAN, ALBERT**, LaRabida Institute, Chicago, Ill.
connective tissue; mucopolysaccharides; research programs

AM-06006 **DINTZIS, HOWARD M.**, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
research programs; proteins; nucleic acids; molecular biology

AM-06020 **HINSHAW, DAVID B.**, Sch. Med., Loma Linda Univ., Los Angeles, Cal.
research programs; surgery; blood circulation dynamics; nucleic acids; transplantation..homotransplantation; radiation protection; leukemia; hematopoiesis; stress; electromagnetic flowmeter; perfusion; liver; catecholamines; pancreatitis; peptic ulcer; gastrointestinal hemorrhage; vagotomy; gastric hypothermia; diaphragmatic hernia; heart surgery; extracorporeal circulation; thoracic surgery; endocrinology; shock; water--electrolyte balance; acid--base equilibrium; septicemia; pregnancy..abortion; blood vessels shunts; dumping syndrome; gastrointestinal surgery; serotonin

AM-06278 **COOKE, ROBERT E.**, Sch. Med., Johns Hopkins Hosp., Baltimore, Md.
pancreatic cystic fibrosis; sweat; mucopolysaccharides; hypersensitivity; respiratory diseases; pulmonary function; research programs; salivary glands

AM-06284 **ALMY, THOMAS P.**, Cornell Med. Div., Bellevue Hosp., New York, N.Y.
gastrointestinal disorders; liver diseases; mucous membrane; liver cells; research programs; fatty liver; diet; ethanol; deoxyribonucleic acid; cell division.. mitosis; cell migration; liver neoplasms; pernicious anemia

AM-06318 **JACKSON, DAVID S.**, Med. Sch., Univ. Oregon, Portland, Ore.
connective tissue; collagen; mucopolysaccharides; proteins; elastin; primates; injury..wound healing; blood vessels prosthesis; arteries..aorta; fibrogenesis; blood vessels

AM-06517 **LAZAROW, ARNOLD**, Sch. Med., Univ. Minnesota, Minneapolis, Minn.
research programs; diabetes; islands of Langerhans; insulin; glucose; tolbutamine; phosphomonoesterases.. glucose-6-phosphatases; glycolysis; cell components.. granules; alloxan; cell age; chemotherapy; glomerulosclerosis; basement membrane; primates..monkeys; pregnancy; fetus

AM-06704 **GANONG, WILLIAM F.**, Sch. Med., Univ. California, San Francisco, Cal.
ACTH; adrenal glands; aldosterone; angiotensin; brain; gonadotropins; hemorrhage; immunology; kidney; neuroendocrine systems; pituitary gland; proteases..renin; research programs; sex behavior; water-electrolyte balance

AM-06705 **NEUHAUS, OTTO W.**, Col. Med., Wayne State Univ., Detroit, Mich.
research programs; joints; electron microscopy; blood supply; blood flow; synovial fluid; nervous system.. central nervous system; electrophysiology; proprioceptors; pain; ossification; osteogenesis; chondrogenesis; blood proteins..serum proteins; glycoproteins; phosphomonoesterases..alkaline phosphatases; uterus..cervix; mucus; fertility; pinocytosis; phagocytosis; membrane permeability and transport; inflammation

AM-06741 **SCRIBNER, BELDING H.**, Sch. Med., Univ. Washington, Seattle, Wash.
uremia; hemodialysis; psychiatry; research programs; peritoneum

AM-06902 **FALOON, WILLIAM W.**, Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
metabolic diseases; endocrine glands disorders; nutrition; malabsorption syndromes; liver diseases; electrolytes; nitrogen balance; ammonia; steroid hormones; spironolactone; vasoactive agents; edema (generalized); oliguria; insulin; pyridoxine; dietary deficiency; blood cells..erythrocytes; aminotransferases; aldosterone

AM-06908 **SUMMERSKILL, WILLIAM J.**, Mayo Assn., Rochester, Minn.
research programs; gastrointestinal disorders; diagnostic tests; chemotherapy; peptic ulcer; intestines..duodenum; hydrogen--ion concentration; gastrointestinal motility; telemetering; stomach..gastric juice; hypothermia; genetics; jaundice chronic idiopathic; osteoporosis; liver diseases; kidney circulation; azotemia; biliary tract diseases; liver cirrhosis; sodium; blood transfusion; gastric hypothermia

AM-07183 **RAGAN, CHARLES**, Col. Phys., Surg., Columbia Univ., N.Y.C.
ACTH; angiotensin; arthritis..rheumatoid arthritis; bioassay; bovine serum albumin; calcium; conjugates; deoxyribonucleic acid; hypersensitivity; immunology.. antigen-antibody reactions; laboratory facilities; liver cirrhosis; longitudinal study; lupus erythematosus; nutrition; organic compounds; reaction sites; research programs; vasopressin; water-electrolyte balance

AM-07184 HOR[illegible]C., Elgin State Hosp., Elgin, Ill.
cell components..mitochondria: chemical structure--biological activity: diet: diffusion: longitudinal study: methionine: oxidation..auto-oxidation: selenium: tissue: tocopherol: unsaturated fatty acids

AM-07451 LUTWAK, LEO, Grad. Sch., Cornell Univ., Ithaca, N.Y.
research programs; nutrition; osteoporosis; minerals; calcium; phosphorus; aging; obesity; body composition; radiolabeled sulfur; endocrine glands disorders; radiolabeled carbon; radiolabeled iodine; psoriasis; radiolabeled calcium

AM-07462 PARK, CHARLES R., Vanderbilt Univ. Med. Cr., Nashville, Tenn.
research programs; glucagon; epinephrine; insulin; somatropin; adrenal cortex hormones; membrane permeability and transport; glucose; radiolabeled carbon; binding; sulfhydryls inhibitors; phosphorylases; diabetes; heart..myocardium; glycogenolysis; nucleotides; cataract; adenosine triphosphate; sodium; potassium; cardiac glycosides; fatty acids

AM-07912 HEANEY, ROBERT P., Sch. Med., Creighton Univ., Omaha, Nebr.
arthritis..rheumatoid arthritis; bone disorders; bone resorption; calcium; homeostasis; lactation; longitudinal study; menopause; osteogenesis; osteoporosis; parathyroid hormones; pregnancy; research programs; somatotropin

AM-07970 BRADLEY, STANLEY E., Col. Phys., Surg., Columbia Univ., New York, N.Y.
endocrine glands; metabolic diseases; steroids; research programs

AM-08106 GOLDNER, MARTIN G., Jewish Hosp., Brooklyn, N.Y.
anuria; cancer chemotherapy; coronary diseases; diabetes; endocrine glands disorders; genetics; glucagon; gout; hormones; hypoglycemia; kidney function; lipids; metabolic diseases; obesity; oliguria; pancreas; pregnancy; research programs; thiazines; uric acid

AM-08107 VAN ITALLIE, THEODORE B., St. Luke's Hosp., New York, N.Y.
research programs; nutrition; metabolic diseases; lipids; unsaturated fatty acids; coronary disease; liver disease; vitamin A; infant human; geographical sites..Europe; cooperative study; clinical research centers

AM-08293 HAVERBACK, BERNARD J., Sch. Med., Univ. Southern California, Los Angeles, Cal.
research programs; laboratory facilities; gastrointestinal system; bacteria..enterobacteria; lipids; serotonin; histamine; catecholamines; tryptamine; tyramine; enzymes; chemical structure--biological activity; pancreatitis; pancreatic cystic fibrosis; sprue; colitis.. ulcerative colitis; neoplasms; histogenesis; epithelium; growth microorganisms; peptic ulcer; gastrin; bradykinin; kallidin

AM-08294 LEONARDS, JACK R., Sch. Med., Western Reserve Univ., Cleveland, Ohio
blood sugar: carbohydrates: diabetes: diagnostic tests: hemodialysis; hypoglycemia; instrumentation-methodology; insulin inhibitors; kidney..artificial kidney; metabolic diseases; radiolabeled carbon; renal failure; therapy evaluation

AM-08305 MATTHEWS, LEROY W., Babies, Children's Hosp., Cleveland, Ohio
children; mucopolysaccharidosis; pancreatic cystic fibrosis; lung disease; diagnostic tests; therapy evaluation; pulmonary function; heart function; muco-proteins; chemical structure; proteolysis; iodine; sugar; amino acids; radiolabeled carbon; bacterial diseases; longitudinal study; research programs; mucopolysaccharides; enzymes

AM-08445 MONTAGNA, WILLIAM, Oregon Regional Primate Res. Cr., Beaverton, Ore.
research programs; skin; growth; aging; primates; species; melanocytes; sweat glands; hair follicle; alopecia; steroids; drugs; ultraviolet rays; x--rays; radiation effects; enzymes; laboratory facilities

AM-08458 WELT, LOUIS G., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
research programs; hemodialysis; uremia; renal failure; electrolytes; kidney function; blood cells.. erythrocytes; muscle; enzymes; glycolysis; carbon dioxide tension; diet; urea; heart function; nerve impulse transmission; gastrointestinal system; infectious diseases; blood coagulation; emotional reactions; psychological tests; radiolabeled sodium; radiolabeled potassium; radiolabeled iron; radiolabeled chromium; radiolabeled iodine

AM-08657 RELMAN, ARNOLD S., Sch. Med., Boston Univ., Boston, Mass.
research programs; acid-base equilibrium; diet; kidney disorders; acidosis; bone disorders; calcium; hypoparathyroidism; breast neoplasms; blood..plasma; cholesterol; adrenal cortex hormones; steroids; sterols; hyperadrenalism; gonads; aldosterone; corticosterone

AM-08658 KELLY, P.J., Mayo Assn., Rochester, Minn.
research programs; osteoporosis; bone disorders; bone resorption; radiolabeled calcium; radioisotopes ..yttrium 90; tetracycline; menopause..postmenopause; aging; calcium; intestinal absorption; sex hormones; nutrition; sodium fluoride; steroid hormones; parathyroid hormones; vitamin D; Cushing's syndrome; hyperthyroidism; acromegaly

AM-08681 McDERMOTT, WILLIAM V., Jr., Boston City Hosp., Boston, Mass.
carbohydrates; extracorporeal circulation; instrumentation--methodology; insulin; liver; liver circulation; liver diseases; pancreatic diseases; ammonia

AM-08887 BORTZ, WALTER M. II, Lankenau Hosp., Philadelphia, Pa.
research programs; diet; fats; fatty acids; exercise; metabolic diseases; diabetes; hyperlipemia; atherosclerosis; cholesterol; obesity; palmitic acid; acetates; mevalonic acid; blood..plasma

AM-08897 ANDERSON, CARL E., San Francisco Med. Cr., San Francisco, Cal.
research programs; cartilage; cytolysis; bone.. epiphyses; arthritis..rheumatoid arthritis; cell components..lysosomes; enzymes; cortisone; vitamin A; salicylates; infant animals..newborn; synovial membrane; parathyroid hormone; vitamin D; cell components.. mitochondria; decalcification; mucopolysaccharides; cartilage neoplasms; chondrodystrophy; chondroitin sulfate; tritium; radiolabeled sulfur

AM-09001 HARRINGTON, WILLIAM J., Sch. Med., Univ. Miami, Miami, Fla.
research programs; blood disorders; ionizing radiation; radiomimetic agents; alkylating agents; immunology..antigens; immunology..antibodies; deoxyribonucleic acid; bone marrow transplantation; infant animals; mutagens; blood cells..thrombocytes; blood cells..erythrocytes; blood cells..leukocytes; ion exchange and transport; radiolabeled sodium; radiolabeled carbon; radiolabeled phosphorus; tritium; glycogen; enzymes; neoplastic cells; aminocyclopentane carboxylic acid; alpha--aminoisobutyric acid; phosphotransferases..UTP; alpha--d--glucose--1--phosphate--uridyltransferase; hematopoiesis; chloramphenicol; toxicology; diphenylhydantoin; primates; nucleases.. ribonuclease; cell differentiation; heterocyclic compounds; binding; chemical bonds..bond cleavage, mechanical; molecules..macromolecules; hemoglobin; proteins; amino acyl soluble ribonucleic acid; cell components..cell membrane

AM-09115 DAVIDSON, CHARLES S., Boston City Hosp., Boston, Mass.
research programs; nutrition; liver diseases; intestinal absorption; starvation; liver cirrhosis; ammonia intoxication; hepatic coma; N--acetylaspartic acid; arginine; toxins; fungi..Aspergillus flavus; bacteria..enterobacteria; megaloblastic anemia; polyneuritis..endemic polyneuritis; vitamin A; diet; mustard (plants); oils; geographical sites..Burma; geographical sites..Pakistan; epidemiology; cholera; lipids; amino acids; alcoholism; lipase..lipoprotein lipase; metabolic diseases, inborn

DE-02189 SHAMOS, MORRIS H., Grad. Sch. Arts, Sci., New York Univ., New York, N.Y.
research programs; calcification; tissue; bone; biophysics; molecular structure; electrophysiology; potentials..membrane potentials; tensile strength; heat lability; laboratory facilities; manpower; instrumentation--methodology; infectious diseases; host--parasite

ARTHRITIS TRAINING COMMITTEE

AM-09770 LAMONT-HAVERS, RONALD W., Arthritis and Rheumatism Fdn., New York, N.Y.
conferences..international meetings; rheumatic diseases; gout; purines; epidemiology; genetics; biometry; publications; therapy evaluation; oxidoreductases.. xanthine oxidase; enzyme inhibitors; colchicine; uricosuric agents

BACTERIOLOGY AND MYCOLOGY

AI-00225 SISLER, HUGH D., Col. Agr., Univ. Maryland, College Park, Md.
fungicides; cycloheximide; proteins; toxicology; captan; imides; fungi; plants; thiocarbamates; cells; lima beans; fungi..Saccharomyces; fungi..Rhizopus nigricans; fungi.. Neurospora crassa; fungi..Botrytis

AI-00283 PROCKNOW, JOHN J., Sch. Med., Univ. Chicago, Chicago, Ill.
histoplasmosis; pregnancy; airborne infections; epidemiology; immunity; chronic disease; immunological tests; diagnostic tests; adrenal cortex hormones; precipitins; immunofluorescence; complement--fixation tests; hypersensitivity; starvation; depressants; bone marrow

AI-00299 SILVA, MARGARITA, Sch. Med., Columbia Univ., N.Y.C.
ecology (microorganisms); fungi..dermatophytes; genetics; growth (microorganisms); nutrients; virulence (microorganisms)

AI-00576 SCHWARZ, JAN, Jewish Hosp., Cincinnati, Ohio
histoplasmosis; epidemiology; conferences; vaccines; skin; disease transmission; lung diseases; eye disorders

AI-00619 GERHARDT, PHILIPP, Univ. Michigan, Ann Arbor, Mich.
bacteria; cell components..cell wall; cell components.. cell membrane; membrane permeability and transport; spores; hexachlorophene; α--aminoisobutyric acid

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BACTERIOLOGY AND MYCOLOGY (CONTD)

AI-00619-12 **NUNGESTER, W.J., Univ. Michigan, Ann Arbor, Mich.**
bacteria; cell components..cell wall; cell components..cell membrane; membrane permeability and transport; spores; hexachlorophene; α--aminoisobutyric acid

AI-00582 **REED, RAYMOND E., Col. Agr., Univ. Arizona, Tucson, Ariz.**
coccidioidomycosis; vaccines..coccidioidmycosis vaccine; therapy evaluation; fungi..Coccidioides immitis

AI-00685 **KOFFLER, HENRY, Grad. Sch., Purdue Univ., Lafayette, Ind.**
bacteria; cell components..flagella; flagellins; proteins; deoxyribonucleic acid; nucleic acids; cell differentiation; cell components..organelles; heat lability; thermophiles

AI-00706 **COSEBZA, BENJAMIN J., Sch. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.**
bacteria..Flavobacterium; marine biology; alginic acid; nutrients; taxonomy; culture media; osmotic pressure; lipases; esterases

AI-00949 **SCHWAB, JOHN H., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
bacteria..Streptococcus group A; toxicology; connective tissue; cell components; polysaccharides; peptides

AI-01071 **BARKSDALE, LANE, Sch. Med., New York Univ. Cr., N.Y.C.**
bacteria..Shigella dysenteriae; bacteria..Corynebacterium diphtheriae; virulence, microorganisms; toxins; lysogeny; neurotoxins; genetics; diphtheria toxin

AI-01079 **BONDI, AMEDEO, Hahnemann Med. Col., Philadelphia, Pa.**
bacteria..Staphylococcus; drugs resistance; transduction; transfomation; viruses..bacteriophage; penicillinase; penicillin; 2,6-dimethoxyphenyl penicillin; cephalosporin C

AI-01201 **KNIGHT, STANLEY G., Univ. Wisconsin, Madison, Wis.**
fungi..Trichophyton; spores; carbon dioxide; enzymes; nutrients; fungi, Penicillium; cell components..cell wall

AI-01219 **PISANO, MICHAEL A., Grad. Sch., St. John's Univ., Jamaica, N.Y.**
fungi..Cephalosporium; glutamates; alanine; culture media; minerals; organic acids; enzymes; sterols

AI-01239 **GOLDBERG, JULIUS, Chicago Med. Sch., Chicago, Ill.**
bacteria..Calymmatobacterium granulomatis; granuloma inguinale; epidemiology; feces; growth factors; reproductive system; neoplasms

AI-01292 **LARSH, HOWARD W., Grad. Col., Univ. Oklahoma, Norman, Okla.**
aerosols; diagnostic tests; immunity; mycoses

AI-01293 **WISE, ROBERT I., Jefferson Med. Col., Philadelphia, Pa.**
bacteria..Staphylococcus aureus; skin abscesses; toxins; cell components; staphylocoagulase; α-hemolysins; immunology..antigen-antibody reactions

AI-01302 **SUTER, EMANUEL, Col. Med. Univ. Florida, Gainesville, Fla.**
bacteria..Mycobacterium; bacteria..Salmonella; bacteria..Brucella; growth factors; growth inhibitors; blood cells..monocytes; cell culture; host-parasite; infectious diseases

AI-01371 **REDMOND, WILLIAM B., Sch. Med., Emory Univ., Atlanta, Georgia**
bacteria..Mycobacterium; bacteria..Mycobacteria (atypical); genetic strains; diagnostic tests; phage typing; skin tests; vaccines..tuberculosis vaccines; viruses..bacteriophage

AI-01404 **WELSHIMER, HERBERT J., Med. Col. Virginia, Richmond, Va.** bacteria..Listeria monocytogenes; Listeria infections; immunity; nutrients; virulence, microorganisms; disease transmission

AI-01519 **POACH, ARCHIBALD W., Sch. Arts, Sci., North Texas State Univ., Denton, Tex.**
cytology; ecology (microorganisms); fungi..actinomycetes; marine biology; metabolites; taxonomy

AI-01534 **CLARK, WILLIAM A., American Type Culture Collection, Washington, D.C.**
viruses..bacteriophage; freezing; microorganisms preservation; taxonomy; bacteria..Vibrio cholerae; bacteria..Pseudomonas aeruginosa; bacteria..Azotobacter vinelandii

AI-01535 **WILLIAMS, ROBERT P., Sch. Med., Baylor Univ., Houston, Tex.**
bacteria..Bacillus anthracis; iron; microbial culture; pigments; virulence, microorganisms

AI-01546 **BLANK, HARVEY, Sch. Med., Univ. Miami, Coral Gables, Fla.**
griseofulvin; metabolites; mycoses; blood..serum; immunity; blood disorders; fungi..Candida albicans; keratins; fungi..yeasts; marine biology; thiamine; toxicology; biotin; aspartic acid; fungicides; spectrophotofluorometry; skin; growth factors

AI-01663 **HERZBERG, MENDEL, U. Florida, Gainesville, Fla.**
attenuation, microorganisms; auxotrophs; bacteria..Salmonella typhimurium; growth factors; immunity; vaccines..bacterial vaccines; virulence, microorganisms

AI-01690 **DOWLING, HARRY F., Sch. Med., Univ. Illinois, Chicago, Ill.**
bronchitis; chronic disease; bronchiectasis; antibiotics; therapy evaluation; pulmonary function; immunological tests

AI-01691 **KELLY, FLORENE C., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.**
bacteria..Staphylococcus; virulence, microorganisms; viruses..bacteriophage; microbial culture; staphylocoagulase

AI-01726 **ADLER, HENRY E., Sch. Vet. Med., Univ. California, Davis, Cal.**
bacteria..Mycoplasma; birds; hemagglutination; vaccines..bacterial vaccines; culture media; immunology..antigens; cytolysis; enzymes; electron microscopy

AI-01801 **SLACK, JOHN M., Sch. Med., West Virginia Univ., Morgantown, W. Va.**
fungi..Actinomyces; immunofluorescence; taxonomy

AI-01816 **GOLDMAN, DEXTER S., Univ. Wisconsin, Madison, Wis.**
glycosyltransferases..UDP glucose: D--glucose--6--phosphate 1--glucosyltransferase; enzyme inhibitors; cell--free systems; trehalose--6--phosphate; bacteria..Mycobacterium; growth, microorganisms; oligonucleotides

AI-01863 **SADOFF, HAROLD L., Col. Natural Sci., Michigan State Univ., East Lansing, Mich.**
bacteria; catalase; dehydrogenases..glucose dehydrogenase; diffusion; heat lability; molecular weight; sedimentation constants; spores

AI-01949 **JACKSON, GEORGE G., Col. Med., Univ. Illinois, Chicago, Ill.**
pyelonephritis; bacteriuria; bacteria; genetic strains; host-parasite; immunology..antigens

AI-01994 **APPLEMAN, MILO D., Sch. Letters, Arts, Sci., Univ. Southern California, Los Angeles, Cal.**
aldolases; bacteria..Streptococcus faecalis; bacteria..Streptococcus faecium; cell-free systems; dehydrogenases; drugs resistance; Embden-Meyerhof pathway; genetic strains; oxidation-reduction; potentials; tellurite

AI-02041 **TOMPSETT, RALPH, Baylor Univ. Med. Cr., Dallas, Tex.**
staphylococcal infections; staphylocoagulase; virulence, microorganisms; phagocytosis; blood disorders; blood cells..leukocytes; host-parasite

AI-02211 **McDONOUGH, EUGENE S., Grad. Sch., Marquette Univ., Milwaukee, Wis.**
fungi..Blastomyces dermatitidis; soil; geographical sites..Wisconsin; geographical sites..Kentucky; ecology, microorganisms; epidemiology; mycoses; fungi..Histoplasma capsulatum; fungi..Allescheria boydii; cytolysis

AI-02236 **GENGHOF, DOROTHY S., Col. Med., Yeshiva Univ., N.Y.C.**
ergothioneine; hercynine; bacteria..Mycobacterium tuberculosis; sulfur; histidine; blood; diagnostic tests; tuberculosis

AI-02332 **WITTLER, RUTH G., Walter Reed Army Med. Cr., Washington, D.C.**
bacteria..Mycoplasma; bacteria..L--form bacteria; chronic disease; taxonomy

AI-02365 **NORMAN, JAMES O., Col. Med., Baylor Univ., Houston, Texas**
bacteria..Mycobacterium tuberculosis; growth factors; culture media; egg yolk; coenzyme Q; vitamin K; fractionation

AI-02385 **McKENNA, JOHN M., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
hospitals patients; immunity; staphylococcal infections; therapy evaluation; viruses..bacteriophage

AI-02392 **BURKE, JOHN F., Massachusetts Gen. Hosp., Boston, Mass.**
bacteria; endothelium permeability; exudates; immunity; inflammation; injury..surgical wounds

AI-02429 **EHRENKRANZ, N. JOEL, Sch. Med., Univ. Miami, Coral Gables, Fla.**
staphylococcal infections; epidemiology; hospitals infections; community; disease transmission; nose; skin; bacteria..staphylococcus

AI-02430 **SPITZNAGEL, JOHN K., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
bacterial diseases; immunity; host--parasite; cytopathogenic effect, bacterial; proteins; ions..cation; infectious diseases; blood cells..leukocytes; cell components..lysosomes; blood..serum; bacteria..Escherichia coli; radiolabeled phosphorus

AI-02457 **COHEN, SIDNEY, Michael Reese Hosp., Med. Cr., Chicago, Ill.**
bacteria..Staphylococcus; cell components..cell wall; enzymes inhibitors..antipenicillinase; growth (microorganisms); hydrogen-ion concentration; nucleic acids; penicillinase; proteins

AI-02505 **LOCATCHER-KHORAZO, DEBORAH, Col. Phys., Surg., Columbia Univ., N.Y.C.**
epidemiology; phage typing; bacteria..Staphylococcus aureus; immunology..antigens; genetic strains; blood cells..leukocytes

AI-02580 **SCHNEIDAU, JOHN D., Jr., Tulane Univ., New Orleans, La.**
fungi..Nocardia; fungi..Streptomyces; bacteria..Mycobacterium; species; immunology..antigens; polysaccharides; proteins; skin tests; immunity..cross immunity; microbial culture; taxonomy; fungi..Sporotrichum schenckii; fungi..Paracoccidioides brasiliensis

AI-02587 **ROTH, FRANK J., Jr., Inst. Marine Sci., Miami, Fla.**
fungi..yeasts; marine biology; growth factors; ecology, animal; microbial culture; taxonomy

AI-02588 **QUINN, LOYD Y., Iowa State Univ., Ames, Iowa**
antibiotics; growth factors; mesophiles; symbiosis; taxonomy; thermophiles

AI-02591 **ELLIAS, LORETTA C., Sch. Arts, Sci., Florida State Univ., Tallahassee, Fla.**
bacteria..Staphylococcus; virulence, microorganisms; staphylocoagulase; leukocidin; hemolysins; toxins; carbohydrase..hyaluronidase

AI-02596 **BEER$, RUSSELL J., Sch. Sci., Technology, Iowa State Univ., Ames, Iowa**
bacteria; culture media; growth (microorganisms); heat lability; mesophiles; spores; thermophiles

AI-02649 **KREAM, JACOB, Hosp. Joint Diseases, New York, N.Y.**
bacteria..Staphylococcus; viruses..staphylococcal phage; phage typing; deoxyribonucleic acid; nucleases..deoxyribonuclease; staphylocoagulase; transformation

AI-02658 **VAN DEMARK, P.J., Col. Agr., Cornell Univ., Ithaca, N.Y.**
bacteria..Mycoplasma; culture media; respiratory diseases; respiratory enzymes; rheumatic diseases; screening; urinary tract disorders

AI-02722 **SPAULDING, EARLE H., Sch. Med., Temple Univ., Philadelphia, Pa.**
infant human; bacteria..enterobacteria; bacteria.. Escherichia coli; genetic strains; viruses..coliphage; ecology, microorganisms; colicines; bacteriolysis

AI-02764 **BROWN, THOMAS M., Sch. Med., George Washington Univ. Hosp., Washington, D.C.**
bacteria..Mycoplasma; diagnostic tests; immunofluorescence; immunology..antibodies

AI-02830 **WYSS, ORVILLE, Grad. Sch., Univ. Texas, Austin, Tex.**
bacteria..Azotobacter; bacterial cysts; genetics; histogenesis; lysogeny

AI-02842 **BARRY, VINCENT C., Trinity Col., Dublin, Ireland**
bacteria..Mycobacterium; microbial culture; iron; zinc; nucleic acids; phosphates; salicylates; culture media.. nutrient deficient media; isoniazid; sugar; lipids

AI-02850 **MARTIN, WILLIAM R., Univ. Chicago, Chicago, Ill.**
epoxysuccinic acid; fungi..molds; tissue respiration; Paracoccidioides brasiliensis

AI-02873 **HALL, WENDELL H., Veterans Admin. Hosp., Minneapolis, Minn.**
aeration; bacteria..Mycobacterium tuberculosis; chemotherapy; culture media; enzymes; glutamates; growth (microorganisms); oxidation

AI-02874 **BERNHEIMER, ALAN W., Sch. Med., New York Univ., N.Y.C.**
bacteria..Staphylococcus; bacteria..Streptococcus; bacterial diseases; chemical structure--biological activity; proteins

AI-02896 **HALVORSON, H. ORIN, Grad. Sch., Univ. Illinois, Urbana, Ill.**
bacteria; dipicolinic acid; enzymes; spores

AI-02897 **GOODNER, KENNETH, Jefferson Med. Col., Philadelphia, Pa.**
bacteria..Vibrio cholerae; ecology (microorganisms); growth inhibitors; marine biology; taxonomy; vaccines.. cholera vaccine

AI-02924 **McCLESKEY, C.S., Col. Arts, Sci., Louisiana State Univ., Baton Rouge, La.**
bacteria..Corynebacterium; species; carbohydrases..β-amylase; enzymes substrate complex; taxonomy

AI-02936 **SEGAL, WILLIAM, Sch. Med., Univ. Colorado, Denver, Colo.**
bacteria..Mycobacterium tuberculosis; carbohydrates; cell-free systems; enzymes substrate complex; fatty acids; growth factors; immunology; microbial culture; oxidation; virulence (microorganisms)

AI-02963 **YOW, MARTHA D., Col. Med., Baylor Univ., Houston, Tex.**
diarrhea; infant human; bacteria..Escherichia coli; viruses..enteroviruses; serotypes; kidney; immunofluorescence

AI-02998 **HANKS, JOHN H., Johns Hopkins Sch. Hygiene, Baltimore, Md.**
bacteria..mycobacterium; bacteria..Mycobacterium leprae; bacteria..Mycobacterium paratuberculosis; growth factors; growth inhibitors; mycobactin; membrane permeability and transport; cytology

AI-03001 **HUGGIN$, CECILE, Univ. South Carolina, Columbia, S.C.**
water pollution; fish; bacteria; microbial culture

AI-03037 **PETERSON, GLEN E., Grad. Sch., Univ. Houston, Houston, Tex.**
carbon; cholesterol; culture media; growth factors; microorganisms

AI-03082 **ROGERS, DAVID E., Sch. Med., Vanderbilt Univ., Nashville, Tenn.**
staphylococcal infections; opsonins; virulence, microorganisms; phagocytosis; septicemia; bacteria..Gram--negative bacteria; reticuloendothelial system

AI-03093 **ROSENBLUM, EUGENE D., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.**
bacteria..Staphylococcus; genetics; lysogeny; staphylocoagulase; viruses..staphylococcal phage

AI-03114 **MAKI, LEROY R., Univ. Wyoming, Larmie, Wyo.**
bacteria..enterobacteria; ecology, microorganisms; intestines; nutrients

AI-03124 **BUCHANAN, ROBERT E., Iowa State Univ., Ames, Iowa**
bacteria; Rickettsiales; taxonomy; publications.. literature survey

AI-03125 **ROBINSON, JOHN P., Sch. Med., Vanderbilt Univ., Nashville, Tenn.**
immunology..antibodies; reaction sites; viruses.. bacteriophage; deoxyribonucleic acid; electron microscopy; chemical structure

AI-03140 **KAMINSKI, ZIGMUND C., Sch. Med., Seton Hall Col., Jersey City, N.J.**
bacteria..Staphylococcus; drugs resistance; penicillin; penicillinase; cells; enzyme inhibitors; detergents; bacteria..L--form bacteria

AI-03144 **GLANTZ, PAUL J., Pennsylvania State Univ., University Park, Pa.**
veterinary medicine; diagnostic tests; serotypes; bacteria ..Escherichia coli; virulence, microorganisms; immune sera; immunology..antigens

AI-03153 **GOEBEL, WALTHER F., Rockefeller Inst., New York, N.Y.**
colicines; bacteria..Escherichia coli; bacteria..Shigella sonnei; chemical structure--biological activity; immunology..antigens; colanic acid; genetics..episomes; bactericides

AI-03162 **RAMOS-ALVAREZ, MANUEL, Hosp. Infantil de Mexico, Mexico, D.F., Mexico**
bacteria..enterobacteria; viruses..enteroviruses; diarrhea; children; longitudinal study

AI-03197 **GERONIMUS, LIPPMAN H., Beth Israel Hosp., Boston, Mass**
bacteria..Staphylococcus; cell-free systems; growth inhibitors; isomers; lactates; mannitol; oxidation

AI-03200 **KRASNER, ROBERT I., Providence Col., Providence, R.I.**
bacteria..Streptococcus group A; M protein; streptokinase; phagocytosis; virulence, microorganisms; blood coagulation; plasminogen; blood coagulation..fibrin; skin

AI-03235 **COUCH, JOHN N., Grad. Sch., Univ. North Carolina, Chapel Hill, N.C.**
host-parasite; mosquitoes; fungi..Coelomomyces; cytology; ecology, microorganisms; aquatic insects; flies

AI-03327 **O'LEARY, WILLIAM M., Cornell Univ. Med. Col., New York, N.Y.**
bacteria; fatty acids; branched-chain acids; cyclic compounds

AI-03456 **PETERSDORF, ROBERT G., Sch. Med., Univ. Washington, Seattle, Wash.**
bacterial meningitis; hypoglycorrhachia; bacteria; blood cells..leukocytes; meninges..subarachnoid space; antibiotics; blood; cerebrospinal fluid

AI-03458 **NORTHEY, WILLIAM T., Life Science Cr., Arizona State Univ., Tempe, Ariz.**
fungi..Coccidioides immitis; vaccines..coccidioidomycosis vaccine; microbial culture; fractionation; aerosols; airborne infections

AI-03459 **LEADBETTER, EDWARD R., Amherst Col., Amherst, Mass.**
bacteria..myxobacteria; bacteria..Sporocytophaga; bacteria ..Myxococcus; life cycle; histogenesis; taxonomy

AI-03523 **HAMBURGER, MORTON, Cincinnati Gen. Hosp., Cincinnati, Ohio**
staphylococcal infections; drugs resistance; culture media; blood; tissue; sputum; bacteria..L--form bacteria; epidemiology; hospitals infections

AI-03524 **McVEIGH, ILDA, Grad. Sch. Vanderbilt, Univ., Nashville, Tenn.**
fungi..Histoplasma capsulatum; fungi..Candida mycoderma; growth factors; penicillin; cysteine; cystine; fungicides; thiamine analogs

AI-03527 **DAVIS, DAVID, N.Y. Botanical Garden, New York City**
fungi..Fusarium oxysporum; host-parasite; auxins; vascular wilt disease; immunity; plants; toxins; enzyme inhibitors

AI-03546 **CHANG, SING C., Leonard Wood Mem., Washington, D.C.**
bacteria..Mycobacterium leprae; bacteria..Mycobacterium; drugs; antibiotics; therapy evaluation; microbial culture

AI-03547 **SLANETZ, LAWRENCE W., Univ. New Hampshire, Durham, N.H.**
mastitis; bacteria..Staphylococcus aureus; staphylococcal toxoid; immunological tests; serology; veterinary medicine

AI-03561 **STINEBRING, WARREN R., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
bacteria..Brucella abortus; blood cells..monocytes; vaccines..Brucella vaccines; microbial culture; interferon

AI-03563 **SMITH, PHILIP N., Fresno State Col., Fresno, Cal.**
bacteria..Pasteurella multocida; genetic strains; aerosols; respiratory diseases; immunology..antigens; virulence, microorganisms; toxins

AI-03564 **FOSTER, JACKSON W., Grad. Sch., Univ. Texas, Austin, Tex.**
spores; bacteria..Bacillus; amines; metallic acids; nutrients; dipicolinic acid; fungi..molds; fungi; biotin; glutamates; stable isotope labeled oxygen

AI-03565 **EVAN$, JAMES B., North Carolina State Col., Raleigh, N.C.**
bacteria..Micrococcus; enzymes; nutrients

AI-03569 **COHEN, SIDNEY, Michael Reese Hosp., Chicago, Ill.**
bacteria..Staphylococcus toxins; chemical structure--biological activity; microbial culture; cytolysins; blood cells, thrombocytes

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BACTERIOLOGY AND MYCOLOGY (CONTD)

AI-03590 COLLIER, ROBERT E., Grad. Sch., Univ. Oklahoma Res. Inst., Norman, Okla.
bacteria..Clostridium roseum; spores; fatty acids; nutrients; amino acid inhibitors; methionine

AI-03627 SKINSNES, OLAF K., Sch. Med., Univ. Chicago, Chicago, Ill.
agranulocytosis; bacteria..Mycobacterium leprae; immunity; leprosy; malnutrition

AI-03635 HIGGINBOTHAM, ROBERT D., Univ. Texas Med. Br., Galveston, Tex.
bacteria..Staphylococcus aureus; endotoxins; hydrocortisone; insulin; epinephrine; triiodothyronine; genetic strains; immunity; hormones; blood proteins.. serum proteins; C--reactive protein

AI-03636 KIRCHHEIMER, WALDEMAR F., Pub. Hlth. Serv. Hosp., Carville, La.
bacteria..Mycobacterium leprae; growth, microorganisms; cell culture; cinemicrography; leprosy

AI-03638 VOSTI, KENNETH L., Stanford Univ. Med. Cr., Palo Alto, Cal.
pyelonephritis; longitudinal study; serotypes; bacteria.. Escherichia coli; genetic strains; hemagglutination; gel diffusion technique

AI-03663 RITTS, ROY E., Jr., Sch. Med., Dent., Georgetown Univ., Washington, D.C.
bactericidin; endotoxins; S19 gamma globulin; immunity; infectious diseases

AI-03713 MacLEOD, COLIN M., Sch. Med., New York Univ., N.Y.C.
bacteria..Diplococcus pneumoniae; bacteria..Streptococcus; deoxyribonucleic acid; genetics; transformation

AI-03719 MacLEOD, COLIN M., New York Univ. Med. Cr., N.Y.C.
staphylococcal infections; epidemiology; immunity

AI-03735 PLASTRIDGE, WAYNE N., Grad. Sch., Univ. Connecticut, Storrs, Conn.
bacteria..Vibrio; microbial culture; growth factors; amino acids; taxonomy; vitamins

AI-03760 De ALMEIDA, JOSE O., Univ. Sao Paulo, Sao Paulo, Brazil
leprosy; reagin; therapy evaluation; complement--fixation tests

AI-03798 SUTER, EMANUEL, Col. Med., Univ. Florida, Gainesville, Fla.
endotoxins; hypersensitivity..delayed hypersensitivity; bacteria..Salmonella; bacteria..Bacillus Calmette-Guerin; pyrogens

AI-03867 VAN DER HOEDEN, JACOB, Israel Inst. Biological Res., Ness-Ziona, Israel
spirochetes..Leptospira; zoonoses; disease transmission; ecology, animal; serotypes; immunology..antigens; diagnostic tests; taxonomy; immunological tests

AI-03923 CLARK, JAMES B., Grad. Sch., Univ. Oklahoma, Norman, Okla.
fungi..Nocardia; life cycle

AI-03964 NELSON, PAUL E., Cornell Ornamentals Res. Lab., Farmingdale, N.Y.
vascular wilt disease; fungi..plant fungi; microbial culture; host--parasite; ecology, plants

AI-04001 REIMANN, HOBART A., Hahnemann Med. Col., Hosp., Philadelphia, Pa.
bacteria..mycobacteria, atypical; bacteria..Mycobacterium tuberculosis; microbial culture; agino

AI-04006 MORTON, HARRY E., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
bacteria..Mycoplasma; immunological tests; genetic strains; immunoelectrophoresis; immunology..antigens; freeze-drying; diagnostic tests

AI-04029 MORTER, RAYMOND L., Sch. Vet. Sci., Med., Purdue Univ., Lafayette, Ind.
spirochetes..Leptospira pomona; virulence, microorganisms; hemolytic anemia; immunology..antibodies; nephrotoxins; serotypes; epidemiology; hemoglobinuria; hemolysins

AI-04033 WHEELER, HARRY E., Sch. Arts, Sci., Louisiana State Univ., Baton Rouge, La.
fungi..Helminthosporium victoriae; victorin; toxins; plants diseases; oats; enzymes; membrane permeability and transport

AI-04046 SMITH, IAN M., University Hosps., Iowa City, Iowa
staphylococcal infections; viscera; chemotherapy

AI-04071 CLARK, HAROLD W., Sch. Med., George Washington Univ., Washington, D.C.
bacteria..Mycoplasma; chemical structure--biological activity; culture media

AI-04075 BRADLEY, S. GAYLEN, Sch. Med., Univ. Minnesota, Minneapolis, Minn.
fungicides; cycloheximide; actinorhodine; nystatin; griseofulvin; microbial culture; fungi; mutations; drugs resistance; algae; 6-mercaptopurine

AI-04149 WILLIAMS, PAUL H., Col. Agr., Univ. Wisconsin, Madison, Wis.
white rust disease; host--parasite; sporogenesis; tissue respiration; fungi..Albugo candida

AI-04180 BOROFF, DANIEL A., A. Einstein Med. Cr., Philadelphia, Pa.
botulinus toxin; chemical structure--biological activity

AI-04195 LEVINE, LEO, Massachusetts Dept. Pub. Hlth., Boston, Mass.
bacteria..Bordetella pertussis; immunology..antigens; vaccines..pertussis vaccine

AI-04200 CHAPMAN, JOHN S., Sch. Med., Univ. Texas, Dallas, Tex.
sarcoidosis; blood..serum; immunology..antibodies; bacteria..Mycobacterium; immunological tests; skin tests; radiography; immunology..antigens; longitudinal study

AI-04219 FAUST, RICHARD A., Col. Arts, Sci., Montana State Univ., Missoula, Mont.
bacteria..Bordetella pertussis; growth, microorganisms; virulence, microorganisms; genetics

AI-04249 EDSALL, GEOFFREY, Massachusetts Dept. Pub. Hlth., Jamaica Plain, Mass.
vaccines..pertussis vaccine; bacteria..Bordetella pertussis; immunology..antigens; genetics strains; vaccines standardization

AI-04259 WALKER, JOHN C., Sch. Agr., Univ. Wisconsin, Madison, Wis.
plants diseases; fungi..plant fungi; carbohydrases.. cellulase; carbohydrases..pectic enzymes; nutrients; immunity; fungi..Rhizopus stolonifer; fungi..Sclerotinia sclerotiorum; fungi..Pellicularia filamentosa; virulence, microorganisms; host--parasite; bacteria..Pesudomonas; viruses..cucumber mosaic virus; bacteria..Erwinia amylovora

AI-04283 YOSHIOKA, MORIMASA, Sch. Med., Keio Gijuku Univ., Tokyo, Japan
blood proteins..plasma proteins; detoxication; endotoxins

AI-04284 GILLESPIE, HAZEL B., Rutgers Univ., New Brunswick, N.J.
bacteria..Lactobacillus; serotypes; immunology..antigens; taxonomy

AI-04298 BAILEY, W. ROBERT, Univ. Delaware, Newark, Del.
bacteria..Escherichia coli; chemical structure--biological activity; colicines; diarrhea; immunology..antigens; infants, animals; infants, human; lysogeny; serotypes

AI-04342 FOX, EUGENE N., La Rabida-Univ. Chicago Inst., Chicago, Ill.
bacteria..Streptococcus group A beta hemolytic: M protein; cell components..cell wall; immunology.. antigens; bacteria..Streptococcus group C; viruses.. bacteriophages; vaccines; bacteria..Streptococcus group D

AI-04343 SWORD, CHRISTOPHER P., Grad. Sch., Univ. Kansas, Lawrence, Kans.
bacteria..Listeria monocytogenes; immunity; cytopathogenic effect, viral; vaccines..bacterial vaccines; fractionation; blood proteins..serum proteins; host--parasite; iron

AI-04344 SCHAEFER, WERNER B., Natl. Jewish Hosp., Denver, Colo.
bacteria..Mycobacterium; taxonomy; serotypes; microbial culture; immunology..agglutinins; oleic acid; immunology.. antigens

AI-04368 BIANCHI, DONALD E., San Fernando Valley State Col., Northridge, Cal.
fungi..Candida albicans; fungi..yeasts; growth, microorganisms; cell components..cell wall; nucleic acid; coalescence; benzimidazoles; purine

AI-04413 ALEXANDER, HATTIE E., Babies Hosp., N.Y.C.
bacteria..Mycobacterium tuberculosis; genetic strains; host-parasite; cytopathogenic effect, bacterial

AI-04431 STORCK, ROGER L., Grad. Sch., Univ. Texas, Austin, Tex.
fungi..molds; fungi..Neurospora crassa; fungi..Mucor racemosus; fungi..Penicillium chrysogenum; fungi..Aspergillus niger; histogenesis; cell components..ribosomes; sedimentation constants; molecules..macromolecules

AI-04490 KAPRAL, FRANK A., Philadelphia Gen. Hosp., Philadelphia, Pa.
bacteria..Staphylococcus; growth, microorganisms; staphylotoxins; staphylocoagulase; drugs resistance; immunology; phagocytosis; proteolysis

AI-04511 BERGDOLL, MERLIN S., Univ. Chicago, Chicago, Ill.
staphylotoxins; immunology..antigens; amino acid sequence; chemical structure--biological activity

AI-04543 PANOS, CHARLES, Albert Einstein Med. Cr., Philadelphia, Pa.
bacteria..Streptococcus group A beta hemolytic: bacteria..L-form bacteria; growth, microorganisms: culture media: enzymes: ribonucleic acid: deoxyribonucleic acid: cell components..cell wall: transformation

AI-04545 WITTER, LLOYD D., Univ. Illinois, Urbana, Ill.
food contamination; bacteria; growth, microorganisms; culture media

AI-04546 BAKER, ROGER D., Sch. Med., Louisiana State Univ., New Orleans, La.
mycoses; aspergillosis; lung; leukemia; cryptococcosis; autopsy; blood..serum; phycomycosis; antineoplastic agents; steroids; agranulocytosis; diabetes; [illegible] factors; therapy evaluation; survey; histoplasmosis; skin tests; moniliasis; leukemia; fungi, growth, microorganisms

AI-04549 FRENKEL, JACOB K., Sch. Med., Univ. Kansas, Kansas City, Kansas
immunity; cell culture; hydrocortisone; phagocytes; immunology..antibodies; cell

AI-04577 GOODER, HARRY, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
bacteria..L-form bacteria; bacteria..Streptococcus; cell components..cell wall; genetics; microbial culture; nutrients

AI-04589 EDWARDS, MERCEDES R., Hlth. Res., Inc., Albany, N.Y.
fungi..actinomycetes; bacteria; cytology; electron microscopy

AI-04603 NIEDERPRUEM, DONALD J., Sch. Med., Indiana Univ., Indianapolis, Ind.
fungi..Schizophyllum; spores; tissue respiration; cell differentiation

AI-04612 CAZIN, JOHN Jr., Col. Med., Univ. Iowa, Iowa City, Iowa
complement-fixation tests; diagnostic tests; gel diffusion technique; hemagglutination; histoplasmosis; immunological tests; immunology..antigens; serology; tuberculosis; vaccines..tuberculosis vaccines

AI-04617 GALLEGLY, M.E., Sch. Agr., West Virginia Univ., Morgantown, W.Va.
mycoses; immunity; beans; age; autolysis; toxicology

AI-04618 BARNETT, HORACE L., West Virginia Univ., Morgantown, W. Va.
age; ecology, microorganisms; fungi; host-parasite; immunity; nutrition; parasitic diseases

AI-04638 MEYER, MARGARET E., Sch. Vet. Med., Univ. California, Davis, Cal.
bacteria..Brucella; tissue respiration; genetic strains; mutations; vaccines..Brucella vaccines; disease transmission

AI-04642 HEDRICK, LESLIE R., Grad. Sch., Illinois Inst. Tech., Chicago, Ill.
ecology (microorganisms); fungi..yeasts; inland fresh waters; life cycle; nutrients; phylogeny; sewage; taxonomy; water supply

AI-04659 WILSON, THOMAS E., Grad. Sch., Univ. Southwestern Louisiana, Lafayette, La.
bacteria..Staphylococcus; pigments; cell components..cell capsule; nutrients; genetic strains

AI-04677 SMITH, FRED G., Jr., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
nephritis; viruses..influenza viruses; bacteria..Streptococcus group A; primates..monkeys; cytopathogenic effect, bacterial; kidney

AI-04700 LINDBERG, GEORGE D., Grad. Sch., Louisiana State Univ., Baton Rouge, La.
fungi..Helminthosporium; viruses; plants diseases; disease transmission; genetics; cytology; serology

AI-04705 MARSTON, JUDITH H., Col. Med., Baylor Univ., Houston, Tex.
bacterial diseases; therapy evaluation; drugs resistance; penicillin G; penicillanic acid; cortisone

AI-04739 ROMANO, ANTONIO H., Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio
Kornberg--Krebs glyoxylate cycle; fungi..Rhizopus nigricans; ketoacid lyases..isocitrate lyase; ketoacid lyases..malate synthase; radiolabeled carbon; spores; zinc; ribonucleic acid

AI-04744 McDANIEL, LLOYD E., Grad. Sch., Rutgers Univ. New Brunswick, N.J.
antibiotics; acrobiosis; fermentation; microbial culture; hydrogen-ion concentration; temperature; nutrients

AI-04764 WOOD, WALTER S., Hektoen Inst. Med. Res., Chicago, Ill.
adrenal cortex hormones; bacteria..Listeria monocytogenes; bacteria..Staphylococcus aureus; body fluids; cardiovascular system; colloids; endotoxins; immunity; infectious diseases; phagocytosis; reticuloendothelial system; stress; temperature; viscera

AI-04767 FREEDMAN, LAWRENCE R., Sch. Med., Yale Univ., New Haven, Conn.
urinary tract disorders; pyelonephritis; bacterial diseases; pregnancy toxemias and hypertension; longitudinal study; criteria; radiography; diagnostic tests; bile; bacteria.. Escherichia coli; bacteria..Staphylococcus; injury..scars; mycoses; ureteral obstruction

AI-04783 LOVETT, JAMES S., Grad. Sch., Purdue Univ., Lafayette, Ind.
fungi..Blastocladiella; cell differentiation; spores; proteins; ribonucleic acid; radiolabeled phosphorus; radiolabeled carbon; enzymes; cell components..ribosomes; messenger ribonucleic acid

AI-04809 BINFORD, CHAPMAN H., Leonard Wood Mem., Washington, D.C.
leprosy; disease transmission; therapy evaluation; serology; bacteria..Mycobacterium leprae; microbial culture; sulfones; lepromin; vaccines..Bacillus Calmette--Guerin vaccine; nose; skin; primates..chimpanzees

AI-04812 POMEROY, B.S., Col. Vet. Med., Univ. Minnesota, St. Paul, Minn.
bacteria..Escherichia coli; serotypes; germ-free isolators; gastro-intestinal system; immunity; virulence, microorganisms

AI-04815 IMAEDA, TAMOTSU, Inst. Venezolano Investigaciones Cientificas, Caracas, Venezuela
bacteria..Mycobacterium leprae; cytopathogenic effect, bacterial; electron microscopy; bacteria..Mycobacterium lepraemurium

AI-04833 GILLIES, ROBERT R., Univ. Edinburgh, Edinburgh, Scotland
viruses; bacteria..Shigella sonnei; infectious diseases; gastrointestinal system; epidemiology; colicines; immunity; genetic strains

AI-04840 WACHSMAN, JOSEPH T., Grad. Sch. Univ. Illinois, Urbana, Ill.
bacteriolysis; 8--azaguanine; bacteria..Bacillus megaterium; cell components..cell wall; cell components..cell nucleus; cell components..ribosomes; ribonucleic acid; enzymes; cell death; thymine

AI-04882 BENNETT, EDWARD O., Sch. Arts, Sci., Univ. Houston, Houston, Tex.
bacteria..Pseudomonas aeruginosa; bacteria..Desulfovibrio desulfuricans; aryl mercurials; microbial culture; drugs resistance; chemical structure--biological activity; population dynamics, microorganisms; symbiosis; bactericides

AI-04930 BATEMAN, DURWARD F., Col. Agr., Cornell Univ., Ithaca, N.Y.
carbohydrases..cellulase; carbohydrases..pectic enzymes; exudates; fungi..plant fungi; growth factors; host-parasite; immunity; membrane permeability; oxygen consumption; phenols; plants..roots

AI-04944 HEDGECOCK, LOYD W., Sch. Med., St. Louis Univ., St. Louis, Mo.
tuberculosis; immunity; diet; vaccines..tuberculosis vaccines

AI-04945 PERRY, JOHN E., Univ. Texas Med. Br., Galveston, Tex.
death; infectious diseases; antibiotics; shock; toxins

AI-04958 WEAVER, RALPH H., Col. Arts, Sci., Univ. Kentucky, Lexington, Ky.
bacteria..Clostridium; genetic strains; cell differentiation; amino acid; deamination; decarboxylation; taxonomy

AI-04960 SNELL, JUNIUS F., Grad. Sch., Ohio State Univ., Columbus, Ohio
tetracycline; bacteria..Escherichia coli; cell components.. cell wall; radiolabeled; glutamates; acetates; genetic strains; lipopolysaccharides; enzymes; mucopeptides

AI-04991 ARONSON, MOSHE, Israel Inst. Biol. Res., Ness-Ziona, Israel
bacteria; deoxyribonucleic acid; histiocytes; host-parasite; immunology..antibodies; phagocytosis; radiolabeled; thymidine

AI-05022 BULMER, GLENN, Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
fungi..Cryptococcus neoformans; virulence, microorganisms; blood..serum; lung disease; morbidity; Hodgkin's disease; leukemia; host-parasite; criteria

AI-05024 MacDONALD, RUSSELL E., New York State Col. Agr., Cornell Univ., Ithaca, N.Y.
bacteria..Escherichia coli; chemical structure; citrate; enzymes substrate; genetics..recombination; light scattering; membrane permeability; radioautography

AI-05027 LOUDON, ROBERT G., Woodlawn Hosp., Dallas, Tex.
airborne infections; aerosols; respiratory system; bacteria; mouth; saliva; nasopharynx; trachea; lung..bronchi; coughing; microbial culture; bacterial diseases; respiratory diseases; air sampling; dyes

AI-05103 SCHAECHETER, MOSELIO, Sch. Med., Tufts Univ., Boston, Mass.
bacteria..enterobacteria; growth, microorganisms; culture media; cell components..ribosomes; proteins; radioisotopes; cell components..polysomes; messenger ribonucleic acid

AI-05114 KINSKY, STEPHEN C., Sch. Med., Washington Univ., St. Louis, Mo.
polyenes; fungicides; fungi; cell components..cell membrane; membrane permeability; binding; chemical structure

AI-05117 KASIK, JOHN E., Sch. Med., Univ. Chicago, Chicago, Ill.
isoniazid; bacteria..Mycobacterium tuberculosis; metabolites; binding; radiolabeled; drugs resistance; penicillinase

AI-05125 HALEY, LEANOR D., Grace-New Haven Community Hosp., New Haven, Conn.
fungi..Cryptococcus neoformans; genetic strains; virulence (microorganisms); host-parasite; criteria; immunology; growth (microorganisms); arabinose; temperature

AI-05156 EAGON, ROBERT G., Univ. Georgia, Athens, Ga.
bacteria..Pseudomonas aeruginosa; cell components..cell wall; mannose; chemical structure--biological activity; microbial culture; fractionation; cell components.. protoplasm

AI-05170 SLOTNICK, IRVING J., St. Jude Hosp., Memphis, Tenn.
reproductive system (female); bacteria; bacteria.. Hemophilus vaginalis; bacteria..streptococcus; bacteria.. clostridium; antibiotics; vagina; uterus..cervix; taxonomy; pregnancy..abortion; pregnancy..amniotic fluid; bacterial diseases; microbial culture; ecology, microorganisms; anaerobes

AI-05173 BERNHEIMER, HARRIET P., State Univ. New York, Downstate Med. Cr., Brooklyn, N.Y.
bacteria..Diplococcus pneumoniae; cell components..cell capsule; transformation; deoxyribonucleic acid; streptomycin; genetic strains

AI-05187 BERMAN, DAVID T., Univ. Wisconsin, Madison, Wis.
bacteria..Staphylococcus aureus; genetic strains; virulence, microorganisms; chemical structure--biological activity; fractionation; mutation; immunology..antigen--antibody reactions; epizootiology; cell components

AI-05201 TORRES-BLASINI, GLADYS, Sch. Med., Univ. Puerto Rico, San Juan, P.R.
soil; fungi; screening; mycoses; ecology, microorganisms; microbial culture; skin tests; geographical sites.. Puerto Rico

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BACTERIOLOGY AND MYCOLOGY (CONTD)

AI-05206 **RICHARDS, RALPH C., Col. Med., Univ. Utah, Salt Lake City, Utah**
skin; bacteria; population dynamics, microorganisms; germicides; temperature; sweat glands; sebaceous glands; hydrogen-ion concentration; bacterial diseases; trauma

AI-05214 **BERK, RICHARD S., Sch. Med., Wayne State Univ., Detroit, Mich.**
bacteria..Pseudomonas aeruginosa; cell death; toxins; blood cells..monocytes; immunity; reticuloendothelial system; enzymes; adenosine triphosphate; host-parasite

AI-05219 **LOCKHART, WILLIAM R., Col. Sci., Humanities, Iowa State Univ., Ames, Iowa**
bacteria; taxonomy; computer programming; ecology, microorganisms; instrumentation-methodology

AI-05254 **WIESMEYER, HERBERT, Grad. Sch., Vanderbilt Univ., Nashville, Tenn.**
bacteria..Escherichia coli; deoxyribonucleic acid; enzymes; galactose; genetics..genes; viruses..bacteriophage lambda; viruses..transducing viruses

AI-05261 **BELL, ALOIS A., Col. Agr., Univ. Maryland, College Park, Md.**
fungi; spores; cell differentiation; growth factors; growth inhibitors; fungicides; chemical structure

AI-05269 **SASLAW, SAMUEL, University Hosp., Columbus, Ohio**
splenectomy; primates..monkeys; infectious diseases; serology; hematology; aerosols; airborne infections

AI-05281 **LOURIA, DONALD B., Bellevue Hosp., New York, N.Y.**
fungi..Candida albicans; fungicides; blood; immunity; cryptococcosis; ethanol; blood cells..neutrophil leukocytes; bacteria..Staphylococcus; alcoholism; vaccines; opsonins

AI-05283 **LIU, PINGHUI V., Sch. Med., Univ. Louisville, Louisville, Ky.**
bacteria..Pseudomonas aeruginosa; genetic strains; virulence, microorganisms; growth, microorganisms; immune sera; lysogeny; leukemia; diabetes; bacteria.. Pseudomonas; serology; enzymes; taxonomy

AI-05310 **LAWRENCE, NORMAN L., Univ. Alabama Med. Ctr., Birmingham, Ala.**
bacteria; cell components..cell wall; streptomycin; mucopeptides; chemical structure

AI-05311 **HARRIS, H. WILLIAM, Sch. Med., Woman's Med. Col., Philadelphia, Pa.**
tuberculosis; bacteria..Mycobacterium tuberculosis; chemotherapy; drugs resistance; microbial culture; screening; serology; diagnostic tests; dosage

AI-05324 **HOSTY, THOMAS S., Alabama Dept. Pub. Hlth., Montgomery, Ala.**
bacteria..mycobacteria (atypical); bacteria..Mycobacterium fortuitum; lung disease; microbial culture; skin tests; epidemiology; virulence, microorganisms; taxonomy

AI-05401 **GAUDY, ELIZABETH T., Col. Arts, Sci., Oklahoma State Univ., Stillwater, Okla.**
bacteria..Streptococcus allantoicus; allantoin; fermentation; enzymes; radiolabeled carbon; growth, microorganisms; enzyme inhibitors; NADH2; oxamic acid; oxidation; bacteria..Pseudomonas aeruginosa; transduction

AI-05418 **GROSS, W.B., Virginia Polytechnic Inst., Blacksburg, Va.**
bacteria..Escherichia coli; respiratory diseases; airborne infections; aerosols; serology; immunofluorescence; liver; spleen

AI-05421 **COONEY, JOSEPH J., Col. Arts, Sci., Loyola Univ., New Orleans, La.**
bacteria..Micrococcus roseus; pigments; axenic culture; mutations; ultraviolet rays; radiation effects; anti-metabolites

AI-05425 **MOORE, WALTER E.C., Virginia Polytechnic Inst., Blacksburg, Va.**
bacteria..enterobacteria; taxonomy; diet; fermentation; microbial culture

AI-05439 **McNARY, JOHN E., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
bacteria..Rhodospirilum rubrum; cell components..cell wall; cell components..cell membrane; chromatophores; chemical structure; mucopeptides; amino acid; carbohydrates; enzymes

AI-05440 **COX, CHARLES D., Col. Arts, Sci., Univ. Massachusetts, Amherst, Mass.**
cell culture; genetics; immunology..antigens; nutrients; reproduction (microorganisms); spirochetes..Leptospira; virulence (microorganisms)

AI-05443 **MINSAVAGE, EDWARD J., Col. Liberal Arts, King's Col., Wilkes-Barre, Pa.**
bacteria; microbial culture; metabolites; cell death; chemical structure--biological activity; electron transport; oxygen; casein; culture media

AI-05448 **SOLOTOROVSKY, MORRIS, Sch. Arts, Sci., Rutgers State Univ., New Brunswick, N.J.**
bacteria..Mycobacterium avium; growth, microorganisms; microbial culture; host--parasite; vitamin A; glycerin

AI-05470 **BLACK, SAMUEL H., Col. Med., Baylor Univ., Houston, Texas**
bacteria..Bacillus cereus; sporogenesis; spores; oxidation-reduction; potentials; reduction; temperature; hydrogen-ion concentration; oxidation; cell differentiation; growth, microorganisms

AI-05481 **GRINER, LYNN A., Sch. Vet. Med., Colorado State Univ., Fort Collins, Colo.**
thromboembolism; infarction; intestines..cecum; endotoxins; bacteria; immunological tests

AI-05489 **LECHEVALIER, HUBERT A., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.**
fungi..actinomycetes; cell components..cell wall; chemical structure; fractionation; amino acids; amino sugars; diaminopimelic acid; isomers; taxonomy

AI-05503 **JAYKO, LAWRENCE G., Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio**
fungi..Basidiomycetes; genetic strains; microbial culture; cell differentiation; reproduction, microorganisms

AI-05507 **ROWEN, ROBERT, Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.**
lipoproteins..serum lipoproteins; bacteria; enzymes; chemical structure; endotoxins; reaction sites; immunology..complement; cell--free systems; streptolysin; cell components..cell membrane

AI-05519 **SIDRANSKY, HERSCHEL, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
lungs diseases; fungi..Aspergillus flavus; spores; host--parasite; neoplasms; antibiotics; hormones; drugs; macrophages; cortisone; alloxan

AI-05521 **KERR, NORMAN S., Col. Liberal Studies, Univ. Minnesota, Minneapolis, Minn.**
fungi..Didymium nigripes; axenic culture; life cycle; mutations; antibiotics; genetics; cell differentiation

AI-05526 **INGRAHAM, JOHN L., Col. Letters, Sci., Univ. California, Davis, Cal.**
bacteria; growth, microorganisms; hypothermia; enzymes; enzymes substrate; radiolabeled; amino acid; genetic strains; genetics

AI-05534 **LEATHERWOOD, JAMES M., North Carolina State of Univ. North Carolina, Raleigh, N.C.**
carbohydrases..cellulase; bacteria; cellulose; immunofluorescence; immunology; immunology..antibodies; reaction sites

AI-05551 **SOCOLOFSKY, MARION D., Col. Arts, Sci., Louisiana State Univ., Baton Rouge, La.**
bacteria..Azotobacter vinelandii; bacterial cysts; viruses.. bacteriophage; growth, microorganisms; cytology; electron transport; cell components..cell membrane; immunological tests; chemical structure--biological activity

AI-05565 **LIM, SOO D., Univ. Minnesota, Minneapolis, Minn.**
blood proteins..serum proteins; leprosy; immunoelectrophoresis; globulins..serum globulins; lepromin

AI-05601 **GEORGIADE, NICHOLAS G., Duke University Hosp., Durham, North Carolina**
antibiotics; bacteria..Pseudomonas; bacteria.. Pseudomonas aeruginosa; blood cells..neutrophil leukocytes; epidemiology; hospitals infections; immunology ..agglutinins; immunology..antigens; injury..burns; septicemia; therapy; transplantation

AI-05625 **DIENES, LOUIS L., Massachusetts Gen. Hosp., Boston, Mass.**
bacteria..Hemophilus; bacteria..L-form bacteria; bacteria.. Mycoplasma; bacteria..Neisseria; bacteria..Streptococcus; growth (microorganisms); serology

AI-05663 **MYRVIK, QUENTIN N., Bowman Gray Sch. Med., Wake Forest College, Winston-Salem, N. C.**
macrophages; lung..alveolus; phagocytosis; immunity; pulmonary granuloma; infectious diseases; hydrolases; electron microscopy

AI-05676 **DUBOSE, RENE, Rockefeller Inst., N.Y.C.**
microorganisms; gastrointestinal system; taxonomy; microbial culture; growth, microorganisms; population dynamics, microorganisms; chemotherapy

AI-05689 **SWITZER, WILLIAM P., Col. Vet. Med., Iowa State Univ., Ames, Iowa**
bacteria..Bordetella bronchiseptica; serology; diagnostic tests; immunology; respiratory diseases; disease transmission

AI-05697 **WEED, LAWRENCE L., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
bacteria..Bacillus subtilis; electron microscopy; fibroblasts; genetic strains; immunology..antibodies; laboratory facilities; virulence (microorganisms); viruses..vaccinia virus

AI-05718 **MILLER, NORMAN G., Col. Med., Univ. Nebraska, Omaha, Nebraska**
endotoxins; host-parasite; leptospirosis; reproduction (microorganisms); spirochetes.. Leptospira pomona; tissue culture

AI-05724 **DUBIN, DONALD T., Harvard Med. Sch., Boston, Mass.**
antibiotics; bacteria; cell aggregation; cell components.. cell membrane; cell components..ribosomes; chloramphenicol; membrane permeability; molecules..macromolecules; neomycin; polyamines; polyions..polycations; potassium; proteins; radiolabeled carbon; radiolabeled magnesium; radiolabeled potassium; ribonucleic acid; spermine; streptomycin

AI-05729 **NIKAIDO, HIROSHI, Massachusetts Gen. Hosp., Boston, Mass.**
bacteria..gram-negative bacteria; bacteria..Salmonella; bacteriolysis; cell components..cell wall; galactose; lipopolysaccharides; membrane permeability; mutations; nucleotides; phospholipids

AI-05730 **PIERINGER, RONALD A., Sch. Med., Temple Univ., Philadelphia, Pa.**
bacteria..Escherichia coli; lipids; phospholipids; glycolipids; enzymes; glycerides; cell--free systems; phosphorylation; nucleotides; radioautography; radiolabeled carbon; radiolabeled phosphorus

AI-05741 **McCLUNG, LELAND S., Grad. Sch. Arts, Sci., Indiana Univ., Bloomington, Ind.**
bacteria..Clostridium; taxonomy; cell culture collections

AI-05772 **MEYER, FRANZ D., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.**
bacteria..Escherichia coli; binding; cell components.. cell wall; chemical structure--biological activity; lipids; reaction sites; viruses..bacteriophage T

AI-05784 **CHUN-HOON, HARRY C.F., Col. Sci., Louisiana State Univ., Lakefront, New Orleans, La.**
bacteria..Mycobacterium balnei; virulence, microorganisms; temperature; host--parasite; genetic strains; bacteria..Mycobacterium marinum

AI-05806 **GRAY, CLARKE T., Dartmouth Med. Sch., Hanover, N.H.**
aerobes; anaerobes; bacteria..Escherichia coli; enzymes; genetic strains; microbial culture

AI-05810 **STOTZKY, GUENTHER, Kitchawan Res. Lab. Brooklyn Botanic Garden, Ossining, N.Y.**
clays; disease transmission; ecology, microorganisms; host-parasite; minerals; plants diseases; population dynamics, microorganisms; soilborne microbes

AI-05813 **ANDERSON, DWIGHT L., Sch. Dent., Univ. Minnesota, Minneapolis, Minn.**
laboratory facilities; electron microscopy; cell culture; bacteria..Mycoplasma

AI-05827 **ABRAMS, GERALD D., Sch. Med., Univ. Michigan, Ann Arbor, Michigan**
bacteria..Staphylococcus aureus; collagen; exudates; fibroblasts; germ-free; granuloma; inflammation; injury; irritants; microorganisms

AI-05844 **CROMARTIE, WILLIAM J., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
bacteria..Streptococcus group A; bacteriolysis; cell components..cell wall; fungi; immunology.. antigen-antibodies reactions; infectious diseases; ion..anion; ion..cation; phagocytosis; polypeptides; polysaccharides; toxicology

AI-05847 **LAWRENCE, NORMAN L., Univ. Alabama Med. Cr., Birmingham, Ala.**
spores; bacteria; enzymes; heat lability; dipicolinic acid; chemical structure; cell-free systems

AI-05868 **CHICHESTER, CLINTON O., Col. Agr., Univ. California, Davis, Cal.**
cell death; lasers; microorganisms; mutations; photochemistry; radiation effects

AI-05907 **BERGER, LESLIE R., Col. Arts, Sci., Univ. Hawaii, Honolulu, Hawaii**
bacteria..Rhodomicrobium vannielii; photosynthesis; cell components..cell wall; chemical structure--biological activity; lipids; microbial culture; functional groups

AI-05926 **SAN CLEMENTE, CHARLES L., Col. Vet. Med., Michigan State Univ., East Lansing, Mich.**
bacteria..Staphylococcus; genetic strains; Staphylocoagulase; viruses..bacteriophage; penicillinase; phosphatases; proteins; pigments; drugs resistance; vaccines..Staphylococcus vaccines; phage typing

AI-05933 **QUINN, ROBERT W., Sch. Med., Vanderbilt Univ., Nashville, Tenn.**
bacteria..viridans streptococci; rheumatic fever; glomerulonephritis; respiratory diseases; disease transmission; microbial culture; children

AI-05940 **HOOK, EDWARD W., 525 East 68th St., N.Y.C.**
salmonellosis; typhoid fever; epidemiology; disease transmission; hospitals infections; gallstones; ampicillin; cholecystectomy; therapy evaluation; antibiotics

AI-05941 **McCABE, WILLIAM R., Massachusetts Mem. Hospitals, Boston, Mass.**
bacteria..Staphylococcus; virulence, microorganisms; epidemiology; hospitals patients; hospitals infections; microbial culture; genetic strains; classification

AI-05946 **MANDLE, ROBERT J., Jefferson Med. Col., Philadelphia, Pa.**
bacteria..Staphylococcus; skin abscesses; immunity; virulence, microorganisms; staphylotoxins; microbial culture; cell

AI-05948 **TAYLOR, JOHN J., Col. Arts, Sci., Montana State Univ. Missoula, Mont.**
fungi..Blastomyces dermatitidis; fungi..Blastomyces brasiliensis; nitrogen compounds

AI-05952 **GUIDRY, DIEU-DONNE J., Sch. Med., Louisiana State Univ., New Orleans, La.**
chick embryo; hyperthermia; hypothermia; mycoses; infectious diseases; fungi; therapy

AI-05963 **CLARK, WESLEY G., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.**
bacteria; chemical structure--biological activity; endotoxins; lipopolysaccharides; proteins; pyrogens; reaction sites; staphylotoxins

AI-05968 **WILLETT, HILDA POPE, Duke Univ. Med. Cr., Durham, N.C.**
bacteria..Mycobacterium tuberculosis; growth, microorganisms; nicotinic acid; NAD; reaction sites; radiolabeled carbon; genetic strains

AI-05969 **TAMIMI, HAMDI A., Col. Phys., Surg., Univ. of Pacific, San Francisco, Cal.**
coagulase; bacteria..Staphylococcus; bacterial diseases; adjuvants, immunology..Freund's adjuvant; immune sera; immunity

AI-05990 **ADELBERG, EDWARD A., Sch. Med., Yale Univ., New Haven, Conn.**
laboratory facilities; ultracentrifugation; proteins; ribonucleic acid; deoxyribonucleic acid; molecular structure; genetics..sex factor; genetics..hybrids; mutations; genetic mapping; enzymes; transcarbamylase; molecular weight; bacteria..Escherichia coli; bacteria..Proteus; bacteria..Bacillus subtilis; bacteria..Hemophilus influenzae; arginine; immune sera; viruses..Vaccinia virus; viruses..Herpes simplex virus; viruses..mumps virus; viruses..Newcastle disease virus; viruses..myxoviruses; viruses..measles virus; hemagglutinins; immunology..antigens; cell-free systems; carbohydrases..beta galactosidase; stable isotope labeled nitrogen

AI-05994 **STEMPEN, HENRY, Col. South Jersey, Rutgers State Univ., Camden, N.J.**
bacteria..Proteus vulgaris; drugs resistance; penicillin; nutrients; penicillinase; enzymes induction; cell differentiation

AI-06012 **LOUDON, ROBERT G., Woodlawn Hosp., Dallas, Tex.**
aerosols; airborne infections; bacteria..Mycobacterium tuberculosis; coughing; disease transmission; epidemiology; saliva; tuberculosis

AI-06029 **PLUNKETT, GEOFFREY E., Biochemical Res. Fdn., Newark, Del.**
streptomycin; bacteria..Escherichia coli; genetic strains; drug resistance; growth factors; microbial culture; temperature; carbohydrates; phosphomonoesterases.. alkaline phosphatases

AI-06030 **POWELSON, DOROTHY M., Sch. Arts, Sci., Univ. Delaware, Newark, Del.**
bacteria..Mycoplasma; cytopathogenic effect, bacterial; host-parasite; growth, microorganisms; cell death

AI-06037 **McCORMICK, NEIL G., Sch. Med., Univ. Virginia, Charlottesville, Va.**
bacteria..Bacillus cereus; spores; oxidoreductases.. alanine dehydrogenase; NAD; pyruvate

AI-06043 **HAYAKAWA, ICHIYA, Col. Eng., Univ. Illinois, Urbana, Ill.**
bacteria..airborne bacteria; aerosols; growth, microorganisms; climate..humidity; temperature; climatron; cell death

AI-06044 **HOWE, CHESTER W., Massachusetts Mem. Hosp., Boston, Mass.**
injury..surgical wounds; hospitals infections; skin; reaction sites; immunology; inflammation; shock; ischemia; staphylococcal infections; bacteria..Pseudomonas aeruginosa

AI-06049 **TALMADGE, MARVIN B., Univ. Michigan Med. Sch., Ann Arbor, Mich.**
bacteria..Staphylococcus aureus; transformation; deoxyribonucleic acid; chemical structure--biological activity; genetics; spermine; drugs resistance; antibiotics

AI-06067 **WILLIAMS, WILLIAM L., Col. Arts, Sci., Univ. Georgia, Athens, Ga.**
bacteria..lactic acid bacteria; microbial culture; growth factors; chemical structure--biological activity

AI-06071 **DOUGHTY, CLYDE C., Col. Med., Univ. Illinois, Chicago, Ill.**
bacteria..Escherichia coli; glyceraldehyde; microbial culture; microorganisms; phosphotransferases..glyceric acid kinases

AI-06072 **DOBROGOSZ, WALTER J., Sch. Agr., North Carolina State Col., Raleigh, N.C.**
bacteria..Escherichia coli; carbohydrases..beta-galactosidase; enzymes; gluconates; glucose; hexose monophosphate pathway; microbial culture; phosphogluconate; reaction sites

AI-06099 **JANNACH, JOSEPH R., Jackson Mem. Hosp., Miami, Fla.**
fungi..Candida albicans; virulence..microorganisms host-parasite; phagocytosis; growth inhibitors; bacteria..gram-negative bacteria; antibiotics; microbial culture

AI-06110 **SELL, SARAH H., Vanderbilt Hosp., Nashville, Tenn.**
bacteria..Hemophilus influenzae; infant human; immunology..antibodies; longitudinal study; genetic strains; host--parasite

AI-06127 **RIPPON, JOHN W., Univ. Chicago, Chicago, Ill.**
fungi..Trichophyton rubrum; fungi..Aspergillus sydowi; fungi..Penicillium lilacinum; dimorphism (biology); host--parasite; transformation; metabolites; antimetabolites; growth, microorganisms; parasites

AI-06136 **BALDWIN, JACK N., Sch. Arts, Sci., Univ. Kentucky, Lexington, Ky.**
bacteria..Staphylococcus aureus; transduction; genetics; alpha--hemolysins; microbial culture; fractionation; genetic mapping

AI-06149 **SILLIKER, JOHN H., St. James Hosp., Chicago Heights, Ill.**
microbial culture; growth factors; feces; bacteria.. Salmonella; bacteria..Shigella; food contamination; growth, microorganisms

AI-06161 **WILSON, JOE B., Col. Agr., Univ. Wisconsin, Madison, Wis.**
bacteria..Brucella abortus; virulence, microorganisms; host--parasite; growth, microorganisms; genetics

AI-06165 **HUMPHREY, ARTHUR E., Sch. Eng., Univ. Pennsylvania, Philadelphia, Pa.**
spores; bacteria..Bacillus subtilis; bacteria..Clostridium; heat lability; cell death; temperature; biomathematics; hydrogen--ion concentration

AI-06181 **MOFFET, HUGH L., Children's Mem. Hosp., Chicago, Ill.**
pharyngitis; children; bacteria..Streptococcus group A; rheumatic fever; diagnostic tests; statistics; survey; viruses..adenoviruses; viruses ..Coxsackie viruses; viruses..myxovirus; bacteria.. Diplococcus pneumoniae; bacteria..Hemophilus influenzae; bacteria..Mycoplasma pneumoniae

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BACTERIOLOGY AND MYCOLOGY (CONTD)

AI-06182 SCHAFFNER, CARL P., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
actinomycetes..streptomycetes; antibiotics; gentamicin; fractionation; chemical structure--biological activity; molecular structure

AI-06183 MARSTON, JUDITH H., Col. Med., Baylor Univ., Houston, Tex.
bacteria..Staphylococcus aureus; bacteria..L--form bacteria; microbial culture; drugs resistance; penicillin; host--parasite; growth, microorganisms

AI-06205 BARTNICKI-GARCIA, SALOMON, Agr. Expt. Station, Univ. California, Riverside, Cal.
fungi..Phytophthora; life cycle; cell components..cell wall; cell differentiation; cellulose; chemical structure

AI-06210 WALKER, ROBERT W., Col. Agr., Univ. Massachusetts, Amherst, Mass.
bacteria..mycobacteria, atypical; fatty acids; molecular structure; chemical structure--biological activity; lipids; fractionation; instrumentation--methodology; functional groups; genetic strains

AI-06211 WHITE, JAMES R., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
antibiotics; polypeptides; cell--free systems; bacteria.. Escherichia coli; microbial culture; proteins; growth inhibitors; genetic strains; drugs resistance; cell components..ribosomes

AI-06219 RICHARDSON, STEPHEN H., Sch. Med., Wake Forest Col., Winston-Salem, N.C.
bacteria..Vibrio cholerae; membrane permeability and transport; sodium; diarrhea; infectious diseases; toxins; chemical structure--biological activity; bioassay; cell components; oxidative phosphorylation; enzymes; host-parasite

AI-06220 RIBBLE, JOHN C., New York Hosp., N.Y.C.
bacteria; genetic strains; bacterial diseases; host-parasite; immunity; microbial culture

AI-06268 WEINBERG, EUGENE D., Grad. Sch., Indiana Univ., Bloomington, Ind.
manganese; zinc; chemical structure--biological activity; bacteria; growth, microorganisms; culture media; metals; fungi

AI-06272 VALENTINE, RAYMOND C., Grad. Sch., Univ. California, Berkeley, Cal.
genetics..genetic coding; genetics..cistrons; genetics ..complementation; proteins; ribonucleic acid; messenger ribonucleic acid; viruses..bacteriophage; bacteria..Escherichia coli; mutation; host--virus

AI-06276 GORDON, RUTH E., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
bacteria..Mycobacterium; actinomycetes..Nocardia; actinomycetes..Streptomyces; microbial culture; taxonomy; genetic strains

AI-06294 CANALE-PAROLA, ERCOLE, Col. Arts, Sci., Univ. Massachusetts, Amherst, MASS.
anaerobes; bacteria..Sarcina; fermentation; nutrients; growth, microorganisms; cellulose; carbohydrates

AI-06299 HARADA, KENJI, Sch. Med., Gunma Univ., Iwagami-cho, Maebashi City, Japan
drugs resistance; genetics..recombination; genetics..episomes; bacteria..Shigella; bacteria.. Escherichia coli; microbial culture; conjugation; chloramphenicol; tetracycline; streptomycin; sulfanilamide

AI-06308 ANDRIOLE, VINCENT T., Sch. Med., Yale Univ., New Haven, Conn.
bacterial diseases; phagocytosis; kidney..renal medulla; hyperosmolarity; ground substance; blood flow; osteomyelitis; pyelonephritis; bile ducts obstruction; liver diseases; bioflavonoids; prednisolone; diuresis; estrogens; blood cells.. leukocytes; radiolabeled iodine; tritium

AI-06310 STENESH, JOCHANAN, Sch. Liberal Arts, Sci., Western Michigan Univ., Kalamazoo, Mich.
cell components..ribosomes; mesophiles; thermophiles; bacteria; growth, microorganisms; proteins; molecular structure; ribonucleic acid; heat lability; enzymes

AI-06311 TURCK, MARVIN, King County Hosp., Seattle, Wash.
epidemiology; bacteria..Escherichia coli; genetic strains; serology; age; immunology..antigen--antibody reactions; immunological tests; hospitals infections; bacteriuria; infant human..newborn

AI-06313 FEINGOLD, DAVID S., Beth Israel Hosp., Boston, Mass.
antibiotics; drugs resistance; cell components.. cell wall; polyenes; sterols; surface properties; potentials; bacteria..Mycoplasma; bacteria.. Lactobacillus fifidus

AI-06319 WATERMAN, NORTON G., Sch. Med., Univ. Louisville, Louisville, Ky.
body temperature; antibiotics; therapy evaluation; staphylococcal infections; heat

AI-06321 ARIMA, KEI, Univ. Tokyo, Tokyo, Japan
cell components..cell membrane; membrane permeability and transport; chemical structure--biological activity; enzymes; bacteria

AI-06323 WILSON, EDWARD E., Univ. California, Davis, Cal.
bacteria..Pseudomonas; indole acetic acid; plants metabolism; plants diseases; host--parasite; plants hormones; chemical structure--biological activity; enzymes

AI-06344 JACOBS, NICHOLAS J., Dartmouth Med. Sch., Hanover, N.H.
bacteria..Staphylococcus; nitrates; heme; reductases; cytochromes; oxygen tension; electron transport

AI-06347 BLAIR, JOHN E., Roosevelt Hosp., N.Y.C.
bacteria..Staphylococcus; hospitals infections; phage typing; lysogeny; viruses..prophage; staphylotoxins

AI-06363 WEIDE, KENNETH D., Col. Vet. Med., Kansas State Univ., Manhattan, Kans.
viruses..encephalitis viruses; epizootiology; population dynamics, microorganisms; population dynamics, animal; taxonomy; geographical sites.. Kansas

AI-06365 WEINSTEIN, LOUIS, New England Cr. Hosp., Boston, Mass.
bacteria..enterobacteria; gastrointestinal system; host--parasite; population dynamics, microorganisms; diet; bioassay; serology; antibiotics

AI-06366 NISHIMURA, JONATHAN S., Sch. Med., Tufts Univ., Boston, Mass.
antibiotics..actinomycin; peptides; actinomycetes..Streptomyces; stereochemistry; amino acids; cell--free systems

AI-06367 WILKINS, PETER O., Seton Hall Col. Med., Dent., Jersey City, N.J.
fungi..Saccharomyces cerevisiae; membrane permeability and transport; glucose; chemical structure--biological activity; proteins; mathematical models; reaction sites; immunology; cell components..cell membrane

AI-06374 BURKE, RUTH C., Sch. Med., Yale Univ., New Haven, Conn.
lipids; fungi..Pityrosporum; skin; surface properties; fatty acids; chemical structure; growth factors; genetic strains; tinea versicolor; Cushing's syndrome

AI-06375 DAY, RICHARD A., Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio
bacteria..Bacillus cereus; penicillin; penicillin analogs; reaction sites; penicillinase; cell components..cell wall; alkylating agents; lupulone; enzyme inhibitors; drugs interaction

AI-06376 FIREHAMMER, BURTON D., Montana State Col., Bozeman, Mont.
bacteria..Vibrio fetus; bacteria..Vibrio bubulus; viruses..bacteriophage; genetic strains; lysogeny; host--virus

AI-06378 EHRLICH, HOWARD G., Grad. Sch., Duquesne Univ., Pittsburgh, Pa.
electron microscopy; parasitic diseases; fungi.. plant fungi; host--parasite; cell components; biological control; phylogeny; immunity; plants diseases

AI-06382 WELKER, NEIL E., Col. Arts, Sci., Northwestern Univ., Evanston, Ill.
thermophiles; bacteria..Bacillus stearothermophilus; heat lability; genetic strains; crystallography; cell components..cell wall; cell components..cell membrane; cell components..ribosomes; nucleic acids; carbohydrases; chemical structure; amino acid sequence; cytolysin; viruses..bacteriophage; transduction

AI-06420 ELLINGBOE, ALBERT H., Col. Natural Sci., Michigan State Univ., East Lansing, Mich.
wheat; fungi..Erysiphe graminis; host--parasite; genetics

AI-06421 FULLER, MELVIN S., Univ. California, Berkeley, Cal.
fungi..Phycomycetes; marine biology; carbohydrases.. chitinase; chemical structure--biological activity; cell differentiation; host-parasite

AI-06457 WOESE, CARL R., Grad. Sch., Univ. Illinois, Urbana, Ill.
spores; bacteria..Bacillus subtilis; cell components.. ribosomes; messenger ribonucleic acid; proteins; deoxyribonucleic acid replication; polymerases; genetics..cistrons; genetic mapping; growth, microorganisms

AI-06459 DELWICHE, E.A., Col. Agr., Cornell Univ., Ithaca, N.Y.
catalase; bacteria..Pediococcus; bacteria.. Lactobacillus; bacteria..Leuconostoc; bacteria.. Streptococcus; chemical structure--biological activity; cyanides; azides; enzyme inhibitors

AI-06461 JONES, E. WYNN, Col. Vet. Med., Oklahoma State Univ., Stillwater, Okla.
infant animals..newborn; intestinal absorption; diarrhea; lymphatic tissue; nutrition; bacteria.. Escherichia coli; endotoxins; immunology..antibodies; germ--free; colostrum; bacterial diseases; radiolabeled phosphorus

AI-06472 CUMMINGS, DONALD J., Univ. Colorado Med. Cr., Denver, Colo.
viruses..bacteriophage T; bacteria..Escherichia coli; genetic strains; virus capsid; molecular structure; deoxyribonucleic acid; growth, microorganisms

AI-06485 ZIMMERMAN, LEONARD N., Col. Sci., Pennsylvania State Univ., University Park, Pa.
bacteria..Streptococcus faecalis; proteases; amino acids; reaction sites

AI-06497 SAZ, ARTHUR K., Sch. Med., Dent., Georgetown Univ., Washington, D.C.
bacteria..Staphylococcus aureus; bacteria..Bacillus cereus; genetic strains; penicillinase; enzyme inhibitors; enzyme substrates; cyclic peptides; chemical structure--biological activity; synthesis; natural products

AI-06506 **ENSIGN, JERALD C., Col. Agr., Univ. Wisconsin, Madison, Wis.**
bacteria..Arthrobacter crystallopoietes: growth, microorganisms; cell components..cell wall; chemical shructure--biological activity; histogenesis; cell types; transformation

AI-06570 **MILES, PHILIP G., Col. Arts, Sci., State Univ. New York, Buffalo, N.Y.**
fungi..Schizophyllum: mutation: genetics..genes: mycelium; growth; enzymes; cell components.. cell wall

AI-06574 **CHURCH, BROOKS D., Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.**
cell components..cell wall: bacteria..Bacillus cereus; bacteria..Escherichia coli; enzymes; chemical structure--biological activity endotoxins; reaction sites; autolysis

AI-06577 **GREEN, GARETH, Boston City Hosp., Boston, Mass.**
respiratory diseases; infectious diseases; bacterial diseases; immunity; phagocytosis; macrophages; viruses; air pollution; chronic disease: lung..bronchi: lung..alveolus

AI-06578 **LESTER, WILLIAM, National Jewish Hosp., Denver, Colo.**
tuberculosis: bacteria..mycobacteria, atypical: drugs resistance; isoniazid; antitubercular agents; therapy evaluation; longitudinal study; antibiotics.. kanamycin; antibiotics..viomycin; ethionlamide; pyrazinamide; antibiotics..capreomycin; antibiotics ..streptomycin; D--cycloserine; ethambutal; isoxyl; p--aminosalicylic acid

AI-06580 **POTTS, WILLIAM E., Univ. Arkansas Med. Cr., Little Rock, Ark.**
bacteria..mycobacteria, atypical; immunology..antigens; hypersensitivity..delayed hypersensitivity; bacterial diseases; diagnostic tests; granuloma; lymph nodes; lung; children

AI-06581 **ZUBRZYCKI, LEONARD J., Sch. Med., Temple Univ., Philadelphia, Pa.**
bacteria..Escherichia coli; genetic mapping; transduction; genetics..hybrids; genetics..recombination; viruses.. bacteriophage

AI-06589 **JOHNSON, RUSSELL C., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
spirochetes..Leptospira; serotypes; growth; nutrition; purine analogs; cell components..cell wall

AI-06594 **LIU, Y.P., Col. Agr., National Taiwan Univ., Taipei, Taiwan, China**
spirochetes..Leptospira; leptospirosis; ungulates; geographical sites..Asia; disease transmission; immunological tests; agriculture; epizootiology

AI-06600 **VOELZ, HERBERT G., West Virginia Univ. Med. Cr., Morgantown, W.Va.**
cell components..organelles; cell components..ribosomes; life cycle; microbial culture; genetic strains; bacterial cysts; bacteria..Myxococcus

AI-06621 **JONES, LILY A., Sch. Med., Wayne State Univ., Detroit, Mich.**
viruses..actinophage; molecular structure; chemical structure--biological activity; actino-mycetes..Streptomyces

AI-06631 **HANSON, EARLE W., Col. Agr., Univ. Wisconsin, Madison, Wis.**
fungi..plant fungi: clover; host--parasite; immunity; plants diseases

AI-06637 **RESTREPO-MORENO, ANGELA, Fac. Med., Univ. Antioquia, Medellin, Colombia, S. America**
blastomycosis; fungi..Blastomyces braziliensis; immunology; epidemiology; skin tests; ecology.. microorganisms; geographical sites..Latin America

AI-06692 **JEANLOZ, ROGER W., Massachusetts Gen. Hosp., Boston, Mass.**
cell components..cell wall; carbohydrates; chemical bonds; bacteria..Micrococcus lysodeikticus; bacteria.. Escherichia coli; bacteriolysis; synthesis; chemical structure

AI-06701 **FRIEDMAN, LORRAINE, Sch. Med., Tulane Univ., New Orleans, La.**
fungi..Basidiobolus; phycomycosis; taxonomy; epidemiology; immunological tests

AI-06707 **MARKOVETZ, ALLEN J., Col. Med., Univ. Iowa, Iowa City, Iowa**
olefins; oxidation; unsaturated fatty acids; bacteria..Pseudomonas aeruginosa; fungi..Candida

AI-06708 **GERBER, NANCY N., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.**
actinomycetes..Streptomyces; organic compounds; chemical structure; odors

AI-06712 **HASH, JOHN H., Sch. Med., Vanderbilt Univ., Nashville, Tenn.**
bacteria..Staphylococcus; fungi; enzymes; chemical structure--biological activity; cell components..cell wall; cell components..cell membrane; antibiotics..tetracycline; cell components..ribosomes

AI-06729 **BARTHOLOMEW, LEE E., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
bacteria..Mycoplasma; rheumatic diseases; genetic strains; microbial culture; tissue culture; disease transmission; immunology.. antibodies; immune sera; complement--fixation tests; primates..monkeys

AI-06733 **HURLBERT, RONALD E., Washington State Univ., Pullman, Wash.**
bacteria..photosynthetic bacteria; bacteria.. Chromatium; carbon dioxide fixation; autotrophy; heterotrophy; growth, microorganisms; decarboxylases; phosphotransferases

AI-06767 **JEFFRIES, CHARLES D., Sch. Med., Wayne State Univ., Detroit, Mich.**
endotoxins; adrenal cortex hormones; hormones inhibitors; liver; shock

AI-06768 **JULIAN, GORDON R., Montana State Col., Bozeman, Mont.**
antibiotics..chloramphenicol; proteins; peptides; molecular size; cell components..ribosomes; viruses; bacteria..Escherichia coli; cell--free systems

AI-06799 **MA, PEARL P.C., Med. Col. Virginia, Richmond, Va.**
bacteria..Staphylococcus aureus; viruses..staphylococcal phages; cell components..cell wall; reaction sites; adsorption; chemical structure--biological activity; shock; microbial culture; genetic strains

AI-07000 **WILSON, BENJAMIN J., Vanderbilt Univ. Med. Cr., Nashville, Tenn.**
fungi..molds; toxins; chemical structure--biological activity

AI-07002 **SPIZIZEN, JOHN, Scripps Clinic, Res. Fdn., La Jolla, Cal.**
deoxyribonucleic acid; bacteria..Bacillus subtilis; mutations; transformation; fractionation; ribonucleic acid; enzymes

AM-00660 **BENNETT, IVAN L., Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
blood..serum; endotoxins; fever; hypersensitivity; immunology..antigens; injury; neoplasms; pyrogens; viruses..influenza viruses

AM-02255 **WARD, JOHN R., Col. Med., Univ. Utah, Salt Lake City, Utah**
arthritis; bacteria..L-form bacteria; bacteria..Mycoplasma; microbial culture; transformation

AM-06767 **STUART, KENNETH L., Univ. West Indies, Kingston, Jamaica, W.I.**
geographical sites..Jamaica; bacteriuria; pregnancy.. premature delivery; pyelonephritis; pregnancy toxemias and hypertension..eclampsia; fetus; death

AM-07181 **McELREE, HELEN, Kansas State Teachers Col., Emporia, Kansas**
macrophages; bacteria; irritants; phagocytosis; inflammation; ascites; exudates; host-parasite; parasites; blood..serum; cell

AM-07492 **ALTSCHULER, HENRY, Home for Jewish Aged, Philadelphia, Pa.**
fungi..Trichophyton mentagrophytes; genetic strains; chemical structure; nucleic acids; polysaccharides; acetates; synthetases..malate synthetase; ketoacid lyases.. isocitrate lyase

AM-07493 **MAHVI, THOMAS A., Med. Col., South Carolina, Charleston, S.C.**
amino acid; dimorphism, biology; Embden-Meverhof pathway; enzymes; fungi..Histoplasma capsulatum; hexose monophosphate pathway; Krebs cycle; mycelium

AM-07499 **WEINBERG, ARNOLD N., Massachusetts Gen. Hosp., Boston, Mass.**
adrenal cortex hormones; blood cells..neutrophil leukocytes; bacteria; cell age; enzymes; deoxyribonucleic acid; radiolabeled phosphorus; glucose; radiolabeled carbon; penicillinase; phosphatases..adenosine triphosphatase

AM-07503 **PHILIPS, ARTHUR W., Col. Liberal Arts, Syracuse Univ., Syracuse, N.Y.**
bacteria..enterobacteria; fungi..Candida albicans; germ-free; host-parasite; mycoses

AM-07530 **TOENNIES, GERRIT, Sch. Med., Temple Univ., Philadelphia, Pa.**
bacteria..Streptococcus faecalis; culture media; growth, microorganisms; amino acid; cell components..cell wall; cell components..cell membrane; vitamin; minerals; deoxyribonucleic acid; ribonucleic acid; lipoproteins; carbohydrates; proteins

AM-07533 **ROTHBLATT, GEORGE H., Wistar Inst., Philadelphia, Pa.**
bacteria..Micrococcus lysodeikticus; auxotrophs; carotenoids; cell components..cell membrane; carbohydrates; fatty acids; membrane permeability and transport; radiolabeled carbon

AM-08421 **BYBEE, JOSEPH D., Baylor Univ. Col. Med., Houston, Tex.**
blood cells..leukocytes; phagocytosis; diabetes; acidosis; bacterial diseases; epidemiology; glycogen; oxygen consumption; opsonins

AM-08867 **SPEECE, A.J., Jr., Texas Woman's Univ., Denton, Tex.**
carbohydrases..lysozyme; instrumentation--methodology; cell types; phosphatases; radiation effects..whole body radiation; bone marrow transplantation; lymphatic system; AET; radiation protection drugs

AP-00002 **KRUEGER, ALBERT P., Univ. California, Berkeley, Cal.**
air pollution; gases; ion; serotonin; respiratory diseases; bacteria; plants

AP-00005 **LAURENZI, GUSTAVE A., Seton Hall Col. Med. Dent., Jersey City, New Jersey**
air pollution; bacteria, Staphylococcus aureus; pulmonary function; smoking; cortisone; alcoholic beverages; barbiturates; sulfur dioxide; hypoxia; immunology; cell components.. ciliary movement

(contd)

LISTING OF GENERAL RESEARCH AREAS

BACTERIOLOGY AND MYCOLOGY (CONTD)

AP-00080 **PADY, STUART M.**, Kansas State Univ., Manhattan, Kans.
air pollution; fungi..Cladosporium; fungi..Basidiomycetes; fungi..Alternaria; spores; allergens..airborne allergens; diurnal variation; microbial culture; taxonomy

AP-00137 **SCHLICHTING, HAROLD E., Jr.**, Sch. Sci., North Texas State Univ., Denton, Texas
air pollution; algae; protozoa; air sampling; seasonal variation; diurnal variation; ecology, microorganisms; air flow (meterology)

AP-00277 **LeMAISTRE, CHARLES A.**, Woodlawn Hosp., Dallas, Tex.
aerosols; airborne infections; antitubercular agents; bacteria..mycobacterium tuberculosis; disease transmission; drugs; drugs resistance; tuberculosis

AP-00313 **GOCKE, THOMAS M.**, Seton Hall Col. Med., Jersey City, N.J.
bronchitis; bacteria; respiratory diseases; disease transmission; statistics; survey; geographical sites..New Jersey; medical records

AP-00440 **STOTSKY, GUENTHER**, Kitchawan Res. Lab. of Brooklyn Botanic Garden, Ossining, N.Y.
air pollution; soil borne microbes; plants..leaves; microorganisms; toxicology; growth, microorganisms; population dynamics, microorganisms; environment; microbial culture; bioassay

CA-07302 **MARCUS, STANLEY**, Col. Med., Univ. Utah, Salt Lake City, Utah
bacteria; blood cells..lymphocytes; Ehrlich ascites carcinoma; endotoxins; fungi..Blastomyces dermatitidis; fungi..Coccidioides immitis; fungi..Histoplasma capsulatum; hypersensitivity tests; immunity; mycoses; neoplastic growth; phagocytosis; polysaccharides; pyrogens; radiation effects; sarcoma 37; skin sensitizing antibody; spores

CA-07703 **GAINOR, CHARLES**, Col. Liberal Arts, Northeastern Univ., Boston, Mass.
bacteria..Agrobacterium; carcinogenesis; crown gall; neoplastic growth; plants neoplasms; proteases

CC-00002 **SLACK, JOHN M.**, West Virginia Univ. Med. Cr., Morgantown, W. Va.
nocardiosis; skin test; diagnostic tests; fungi..Nocardia asteroides; immunology..antigens; chemical structure--biological activity

CC-00003 **VAN ESELTINE, WILLIAM P.**, Sch. Vet. Med., Univ. Georgia, Athens, Georgia
spirochetes..Leptospira pomona; microbial culture; growth factors; genetic strains

CC-00005 **EGEBERG, ROGER O.**, Sch. Med., Univ. Southern California, Los Angeles, Cal.
fungi..Coccidioides immitis; ecology, microorganisms; geographical sites..United States; soil; salts; microbial culture; fungicides

CC-00032 **LEPPER, MARK H.**, Col. Med., Univ. Illinois, Chicago, Ill.
bacteria..enterobacteria; bacteria..Gram-negative bacteria; hospitals infections; epidemiology; latent bacterial diseases; airborne infections; disease transmission

CC-00033 **LEPPER, MARK H.**, Col. Med., Univ. Illinois, Chicago, Ill.
epidemiology; bacteria..Escherichia coli; disease transmission; gastrointestinal disorders; hospitals infections; community; family; socioeconomics; children; diagnostic tests; geographical sites..Illinois

CC-00046 **DENTON, J. FRED**, Med. Col. Georgia, Augusta, Ga.
ecology (microorganisms); epidemiology; fungi..Blastomyces dermatitidis; fungi..Cryptococcus neoformans; fungi..Histoplasma capsulatum; fungi..Paracoccidioides brazilliensis; growth (microorganisms); microbial culture; soil

CC-00049 **SMITH, RUSSEL E.**, Col. Agr., Univ. Massachusetts, Amherst, Mass.
diagnostic tests; immunofluorescence; immunology..antigen-antibody reactions; infectious diseases; leptospirosis; pregnancy..abortion; ruminants; uterus

CC-00060 **WHITE, ARTHUR C.**, Med. Col. Georgia, Augusta, Ga.
bacteria..Staphylococcus; hospitals patients; airborne infections; latent bacterial diseases; epidemiology; nose; microbial culture; staphylocoagulase; phage typing; drugs resistance; injuries..surgical wounds; immunology; hypersensitivity; skin

CC-00062 **HARDY, ALBERT V.**, Florida State Bd. Hlth., Jacksonville, Fla.
bacteria..mycobacteria, atypical; lung disease; epidemiology; longitudinal study; survey; socioeconomics; soil; microbial culture; taxonomy

CC-00064 **LIVE, ISRAEL**, Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
staphylococcal infections; veterinary medicine; zoonoses; disease transmission; serotypes; taxonomy; immunological tests; bacteria..Staphylococcus; immunology..antigens

CC-00065 **HOLLISTER, CHARLES J.**, Sch. Vet. Med., Univ. Pennsylvania, Kennett Sq., Pa.
leptospirosis; epizootiology; zoonoses; diagnostic tests; serology; disease transmission

CC-00066 **BLENDEN, DONALD C.**, Sch. Vet. Med., Univ. Missouri, Columbia, Mo.
leptospirosis; epidemiology; diagnostic tests; spirochetes

CC-00068 **COLES, EMBERT H.**, Sch. Vet. Med., Kansas State Univ., Manhattan, Kans.
bacteria..Staphylococcus; viruses..bacteriophage; phage typing; disease transmission; genetic strains; zoonoses

CC-00070 **HANSON, LYLE E.**, Col. Vet. Med., Univ. Illinois, Urbana, Ill.
leptospirosis; epizootiology; zoonoses; population dynamics, animal; germ-free; deer; opossum; skunks

CC-00074 **SIMON, HAROLD J.**, Sch. Med., Stanford Univ., Stanford, Cal.
staphylococcal infections; infants, human; patient care.. home care; disease transmission; latent bacterial diseases; drugs resistance; tetracycline; aerosols

CC-00075 **JENKINS, DANIEL E.**, Col. Med., Baylor Univ., Houston, Tex.
bacteria..mycobacteria, atypical; epidemiology; ecology, human; therapy evaluation; longitudinal study; soil; family; tuberculin tests

CC-00078 **TUCKER, CECIL B.**, Tennessee Dept. Hlth., Nashville, Tenn.
bacteria..mycobacteria, atypical; blood proteins; electrophoresis; immunology; epidemiology; environment

CC-00083 **COOPER, MERLIN L.**, Children's Hosp. Res. Fdn., Cincinnati, Ohio
bacteria..Staphylococcus aureus; immunology..antibodies; children; blood..serum; immunoelectrophoresis; immunologicaltests; immunology..antigens; fractionation; proteins; polysaccharides

CC-00092 **HURST, VALERIE**, Sch. Dent., Univ. California, San Francisco, Cal.
hospitals infections; bacteria..Staphylococcus aureus; bacteria..Gram--negative bacteria; epidemiology; injuries..surgical wounds; injuries..burns; hospitals.. nursery; longitudinal study

CC-00106 **SELL, SARAH H.**, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
histoplasmosis; diagnostic tests; complement--fixation tests; immunology..antigens; serology; cell culture

CC-00119 **MUCHMORE, HAROLD G.**, Sch. Med., Univ. Minnesota, Minneapolis, Minn.
cryptococcosis; fungi..Cryptococcus neoformans; immunity..hyperimmunization; immunology..antigens; skin tests; serology; diagnostic tests; brain disorders; geographical sites..United States

CC-00131 **EICHENWALD, HEINZ F.**, Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
hospitals infections; epidemiology; hospitals..nursery; infant human, newborn

CC-00140 **KILLINGER, ARDEN H.**, Col. Vet. Med., Univ. Illinois, Urbana, Ill.
bacteria..Listeria monocytogenes; epidemiology; silage; zoonoses; diagnostic tests; serology; immunology.. antigens

DE-01201 **KRAUS, FREDERICK W.**, Univ. Alabama Med. Cr., Birmingham, Ala.
immunology..antibodies; saliva; immunofluorescence; mouth; globulins; carbohydrases..lysozyme

DE-01267 **SNYDER, MARSHALL L.**, Sch. Dent., Univ. Oregon, Portland, Ore.
serology; taxonomy; fungi..actinomycetes; mouth; dentition; cell components..cell wall; immunology..antigens

DE-01305 **SOCRANSKY, SIGMUND S.**, Forsyth Dent. Infirmary, Boston, Mass.
growth factors; oxidation-reduction; oxygen; spirochetes; taxonomy

DE-01462 **HOFFMAN, HEINER**, Col. Dent., New York Univ., N.Y.C.
bacteria..fusobacteria; growth, microorganisms; culture media; bacteria..L-form bacteria; dental structure.. gingiva; cytology; microbial culture; cell aggregation

DE-01492 **MADDEN, RICHARD M.**, Col. Dent., State Univ. Iowa, Iowa City, Iowa
microorganisms; mouth; dental drills; air pollution; contamination; sanitation; instrumentation

DE-01672 **PROVENZA, D. VINCENT**, Sch. Dent., Univ. Maryland, Baltimore, Md.
acid; bacteria..Streptococcus; carbohydrates; culture media; decalcification; dental structure..enamel; hydrogen-ion concentration; mouth; proteins

DE-01681 **THONARD, JOHN C.**, Sch. Dent., Univ. Pittsburgh, Pittsburgh, Pa.
bacteria; dental disease..periodontal disease; dental structure..gingiva; germ-free; host-parasite; immunology.. antigen-antibody reactions; leukemia; mouth; viruses

DE-01784 **PARKER, RICHARD B.**, Sch. Dent., Univ. Oregon, Portland, Ore.
mouth; microorganisms; growth factors; metabolites; microbial culture; population dynamics, microorganisms

DE-01935 **KRAUS, FREDERICK W.**, Univ. Alabama Med. Cr., Birmingham, Ala.
granuloma; microorganisms; connective tissue; membrane permeability and transport; inflammation; host--parasite; irritants

DE-02065 **NATKIN, EUGENE**, Sch. Dent., Univ. Washington, Seattle, Wash.
ecology, microorganisms; viruses..bacteriophage; bacteria..enterbacteria; phage typing; mouth; dental caries; radiation effects; ultraviolet rays

DE-02234 **SNYDER, MARSHALL L.**, Sch. Dent., Univ. Oregon, Portland, Ore.
actinomycetes; bacteria..Leptotrichia; bacteria.. Corynebacterium; bacteria..Lactobacillus; dental calculus; growth, microorganisms; infant human; microbial culture; serology; population dynamics, microorganisms

EF-00015 **HARMON, L.G., Sch. Agr., Michigan State Univ., East Lansing, Mich.**
bacteria..Staphylococcus aureus; cheese; food processing; instrumentation-methodology

EF-00031 **PEDERSON, CARL S., New York State Agr. Exptl. Station, Cornell Univ., Geneva, N.Y.**
fermentation; food processing; lipids; microorganisms; vegetables

EF-00067 **FRANK, HILMER A., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii**
food quality; food processing; bacteria; bacteria.. Pseudomonas; psychrophiles; catalase; geographical sites..United States; geographical sites..Pacific Islands

EF-00069 **SANDINE, WILLIAM E., Agr. Expt. Sta., Oregon State Univ., Corvallis, Ore.**
bacteria..lactic acid bacteria; bacteria..Streptococcus; carbohydrases..β--galactosidase; permeases; mutations; enzyme inhibitors

EF-00076 **NELSON, F. EUGENE, Col. Agr., Univ. Arizona, Tucson, Ariz.**
pasteurization; growth inhibitors; bacteria; culture media; metabolites; antimetabolites

EF-00100 **STUMBO, CHARLES R., Sch. Agr., Univ. Massachusetts, Amherst, Mass.**
sterilization; germicides; food processing; gases; thermodynamics; propylene oxide; ethylene oxide; microorganisms; atmosphere; chemical structure--biological activity; instrumentation

EF-00112 **HARTMAN, PAUL A., Grad. Sch., Iowa State Univ., Ames, Iowa**
bacteria..enterobacteria; taxonomy; frozen foods; culture media; food poisoning

EF-00122 **MENZEL, R. WINSTON, Grad. Sch., Florida State Univ., Tallahassee, Fla.**
fungi..Dermocystidium marinum; mollusks; immunity; genetics; fungicides

EF-00130 **TOWNSEND, CHARLES T., National Canners Assn., Berkeley, Cal.**
bacteria..Clostridium botulinum; spores; growth factors; food poisoning; food processing; growth inhibitors; tomato; botulism

EF-00134 **JEZESKI, JAMES J., Jr., Univ. Minnesota, St. Paul, Minn.**
bacteria..Staphylococcus aureus; food processing; milk; cheese; heat lability

EF-00135 **FRANK, HILMER A., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii**
bacteria..Clostridium; sporogenesis; reproduction, microorganisms; growth, microorganisms; anaerobes; culture media; ions; alanine; life cycle; dipicolinic acid

EF-00138 **COLLINS, EDWIN B., Sch. Agr., Univ. California, Davis, Cal.**
acetates; bacteria; citrase; citrate; dairy products; food processing; membrane permeability; oxalacetate; permeases

EF-00140 **SMALLEY, EUGENE B., Univ. Wisconsin, Madison, Wis.**
fungi..Rhizoctonia leguminicola; toxicology; clover

EF-00164 **HAMDY, MOSTAFA K., Col. Agr., Univ. Georgia, Athens, Ga.**
epidemiology; bacteria..Staphylococcus aureus; deoxyribonucleic acid; injuries..wound healing; injuries..contusions; enzymes; nucleotides; chemical structure; oxidative phosphorylation; exudates; microbial culture; cell components..lysosomes; cell components..mitochondria

EF-00192 **MEYER, KARL F., Sch. Med., Univ. California, San Francisco, Cal.**
antibiotics; drugs resistance; bacteria; genetic strains; food preservation; food contamination

EF-00198 **WALTER, WILLIAM G., Grad. Sch., Montana State Col., Bozeman, Mont.**
hospitals..food service; contamination; bacteria.. Staphylococcus aureus; bacteria..Escherichia coli; bacteria..Bacillus subtilis; sanitation

EF-00282 **FRAZIER, WILLIAM C., Col. Agr., Univ. Wisconsin, Madison, Wis.**
food contamination; bacteria..Staphylococcus aureus; growth inhibitors; antibiotics; chemical structure--biological activity; growth factors

EF-00295 **ALEXANDER, MARTIN, Col. Agr., Cornell Univ., Ithaca, N.Y.**
fungi; cytolysis; bacteria; carbohydrases..chitinase; carbohydrases..glycosidases

EF-00308 **BARNES, GEORGE L., Oklahoma State Univ., Stillwater, Okla.**
fungi..plant fungi; plants; plants diseases; photosensitivity; growth, microorganisms; spores

EF-00354 **WALKER, HOMER W., Iowa State U., Ames, Iowa**
bacteria; spores; heat lability; carbohydrates; lipids; amino acid; food processing

EF-00361 **SAKAGUCHI, GENJI, Natl. Inst. Hlth., Shinagawa-ku, Tokyo, Japan**
toxins; bacteria..Clostridium botulinum; proteases..trypsin

EF-00370 **BLOBEL, HANS, Sch. Agr., Univ. Wisconsin, Madison, Wis.**
mastitis; milk; screening; diagnostic tests; veterinary medicine

EF-00421 **JAY, JAMES M., Col. Liberal Arts, Wayne State Univ., Detroit, Mich.**
meat; poultry; seafood; taste; proteolysis; microorganisms; food quality; food contamination

EF-00428 **BRETZ, HAROLD W., Illinois Inst. Technology, Chicago, Ill.**
bacteria..Escherichia coli; freezing; microorganisms preservation

EF-00455 **CHESBRO, WILLIAM R., Col. Liberal Arts, Univ. New Hampshire, Durham, N.H.**
bacteria..Staphylococcus aureus; nucleases; food contamination; food; fractionation

EF-00488 **McCROAN, JOHN E., Georgia Dept. Public Health, Atlanta, Ga.**
food contamination; bacteria..Staphylococcus; bacteria.. Salmonella; growth, microorganisms; environment; temperature; bioassay; microbial culture; epidemiology

EF-00491 **COTTERILL, OWEN J., Col. Agr., Univ. Missouri, Columbia, Mo.**
avidin; bacteria..Salmonella; carbohydrases..lysozyme; conalbumin; egg proteins; food preservation; growth, microorganisms; hydrogen-ion concentration; ovalbumin; pasteurization; proteins denaturation; temperature

EF-00507 **MORRISON, S.M., Col. Vet. Med., Colorado State Univ., Fort Collins, Colo.**
bacteria: chlorination: criteria: food contamination: food preservation; food processing; ice; sterilization

EF-00510 **AISO, KAZUYOSHI, Chiba Univ., Okubo, Narashino City, Chiba-ken, Japan**
bacteria..vibrio parahemolyticus; food poisoning; taxonomy; microbial culture; toxins; epidemiology; geographical sites..Japan

EF-00517 **GRECZ, NICHOLAS, Grad. Sch., Illinois Inst. Tech., Chicago, Ill.**
bacteria..Clostridium botulinum; food preservation; heat; heat lability; radiation effects; spores; sterilization

EF-00520 **WITTER, LLOYD D., Col. Agr., Univ. Illinois, Urbana, Ill.**
bacteria..pseudomonas; cold; criteria; enzymes; genetic strains; growth, microorganisms; psychrophiles

EF-00564 **WHEELER, HARRY E., Col. Arts, Sci., Louisiana State Univ., Baton Rouge, La.**
plants diseases; fungi..Helminthosporium victoriae; fungi..Trichophyton rubrum; victorin; cell components; tissue respiration; membrane permeability and transport; therapy evaluation; oats; viruses; dermatomycoses; griseofulvin

EF-00565 **MATELES, RICHARD I., Massachusetts Inst. Technology, Cambridge, Mass.**
laboratory facilities; microbial culture; fungi..Aspergillus flavus; bacteria..Escherichia coli; tryptophan; enzymes; spores; toxins; food contamination

EF-00570 **BAKER, ROBERT C., Col. Agr., Cornell Univ., Ithaca, N.Y.**
egg shell; microorganisms; chemical structure--biological activity; nutrients; membrane permeability; food contamination; food preservation; genetic strains

EF-00576 **SNYDER, WILLIAM C., Col. Agr., Univ. California, Berkeley, Cal.**
soil; plants..roots; plants diseases; disease transmission; growth inhibitors; toxins; organic compounds; ecology, plants; ecology, microorganisms; fungi..Fusarium; fungi.. Thielaviopsis; fungi..Streptomyces; soilborne microbes

EF-00590 **DIENER, URBAN L., Auburn Univ., Auburn, Ala.**
fungi..Aspergillus flavus; microbial culture; toxins; food contamination; chemical structure--biological activity; carcinogens; bioassay; environment; temperature; grain

EF-00598 **MUNDT, J. ORVIN, Agr. Exptl. Station, Univ. Tennessee, Knoxville, Tenn.**
frozen foods; food contamination; bacteria.. enterobacteria; bioassay

EF-00624 **HALL, C.W., Michigan State Univ., East Lansing, Mich.**
airborne microbes; bacteria..Serratia marcescens; bacteria..Bacillus subtilis; food processing; food sanitation; sterilization; air pollution; aerosols; particle size; temperature; climate.. humidity; diffusion; sedimentation

EF-00632 **BOHRER, C. WALLACE, Natl. Canners Assn., Washington, D.C.**
bacteria..Clostridium botulinum; spores; heat lability; temperature; microbial culture; buffers

EF-00644 **SADLER, WALTER W., Sch. Vet. Med., Univ. California, Davis, Cal.**
bacteria..Staphylococcus aureus; staphylotoxins; food poisoning; bioassay; instrumentation--methodology; immunofluorescence; immunology..antibodies; food contamination

EF-00656 **GREEN, JOHN H., Col. Agr., Univ. Massachusetts, Amherst, Mass.**
bacteria..Clostridium botulinum; genetic strains; food contamination; spores; carbohydrates; enzymes; temperature; growth, microorganisms; cell--free systems; amino acids; glycolysis

EF-00671 **HASKIN, HAROLD H., Rutgers Univ., New Brunswick, N.J.**
water pollution; food contamination; mollusks; industrial wastes; sewage; water treatment; geographical sites..New Jersey

(contd)

LISTING OF GENERAL RESEARCH AREAS

BACTERIOLOGY AND MYCOLOGY (CONTD)

EF-00677 HOLTMAN, D. FRANK, Grad. Sch., Univ. Tennessee, Knoxville, Tenn.
ecology, microorganisms; bacteria..Clostridium botulinum; inland fresh waters; water pollution; microbial culture; geographical sites..Tennessee; soil pollution; soil sampling

EF-00694 MATELES, RICHARD I., Sch. Sci., Massachusetts Inst. Technology, Cambridge, Mass.
fungi..Aspergillus flavus; toxins; metabolites; microbial culture; toxicology; chemical structure--biological activity; bioassay; carcinogens

EF-00696 SNOEYENBOS, GLENN H., Col. Agr., Univ. Massachusetts, Amherst, Mass.
salmonellosis; poultry; bacteria..Salmonella typhimurium; epizootiology; genetic strains; biological control; sterilization; diagnostic tests

EF-00709 BOOTH, JOHN A., Sch. Agr., New Mexico State Univ., University Park, N. Mex.
cotton; plants..roots; fungi..Verticillium albo--atrum; exudates; host--parasite; enzymes; genetics; metabolites

EF-00738 FENNEMA, OWEN, Col. Agr., Univ. Wisconsin, Madison, Wis.
gases; hydration reactions; enzymes; vitamins; growth, microorganisms; proteases..trypsin; carbohydrases..alpha--amylase; ascorbic acid; muscles; plants; bacteria..Pseudomonas; freezing

EF-00739 MAXCY, R. BURT, Col. Agr., Univ. Nebraska, Lincoln, Nebr.
food processing; dairy products; food sanitation; sanitary engineering; growth, microorganisms

EF-00756 BABEL, FREDERICK J., Sch. Agr., Purdue Univ., Lafayette, Ind.
milk; coagulation; dairy products; food processing; biological products preparation; microorganisms; enzymes; proteases..rennin

ES-00025 BUNGAY, HENRY R., III, Virginia Polytechnic Inst., Blacksburg, Va.
microorganisms; microbial culture; growth, microorganisms; instrumentation--methodology; criteria; population dynamics, microorganisms

ES-00035 STRICKLAND, JOHN D.H., Univ. California, San Diego, La Jolla, Cal.
marine biology; bacteria; ecology, microorganisms; growth, microorganisms; nutrients; water pollution

ES-00076 LYND, J.Q., Sch. Agr., Oklahoma State Univ., Stillwater, Okla.
pyridines; pesticides; toxicology; detoxication; plants; soilborne microbes; microbial culture; biological control

GM-07693 ANDEREGG, DOYLE E., Grad. Col., Univ. Oklahoma, Norman, Okla.
carbohydrases..pectic enzymes; bacteria..plant bacteria; fungi; mutations; plants diseases

GM-08211 BOLD, HAROLD C., Grad. Sch., Univ. Texas, Austin, Tex.
geographical sites..Texas; soil; algae; taxonomy; ecology, microorganisms

GM-09063 ANDERSON, IRVIN C., Sch. Agr., Iowa State Univ., Ames, Iowa
bacteria; plants..roots; plants neoplasms; radiolabeled carbon; soy bean

GM-10603 LEWIN, RALPH A., Univ. California, La Jolla, Cal.
bacteria..Flexibacteria; taxonomy; genetic strains; cytology; microbial culture; marine biology; enzymes

GM-11643 HEDRICK, LESLIE R., Illinois Inst. Tech., Chicago, Ill.
fungi..Hansenula; proline; oxygen consumption; culture media; ammonium; growth inhibitors; racemization; glutamates; NAD linked enzymes; NADP linked enzymes; tryptophan

GM-12292 SEGEL, IRWIN H., Col. Agr., Univ. California, Davis, Cal.
sulfur; selenium; ion exchange and transport; fungi; mutation; sulfating enzymes; reaction sites; radiolabeled sulfur; radiolabeled selenium

GM-12648 KIM, KI-HAN, Col. Liberal Arts, Wayne State Univ., Detroit, Mich.
bacteria..Pseudomonas; growth, microorganisms; spermidine; polyamines; enzymes; tritium; cell--free systems; cell death; proteins; viruses..bacteriophage; virus replication

GM-13513 DeLACY, PHILLIP H., Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.
publications..history of medicine; translations

HD-00294 RUBIN, MITCHELL I., Children's Hosp., Buffalo, N.Y.
longitudinal study; urinary tract disorders; immunology.. antibodies; bacteria; children; renal hypertension; kidney function; age; ethnic groups; sex difference; infectious diseases

HD-00303 HEWITT, WILLIAM L., Cr. Hlth. Sci., Univ. California, Los Angeles, Cal.
pyelonephritis; chemotherapy; pregnancy; antibiotics; kidney function; longitudinal study

HD-00306 PRYSTOWSKY, HARRY, Sch. Med., Univ. Florida, Gainesville, Fla.
reproductive system, female; infectious diseases; pregnancy, perinatal

HD-00307 HENDERSON, MAUREEN, Sch. Med., Univ. Maryland, Baltimore, Md.
bacteriuria; pregnancy..premature delivery; epidemiology

HD-00632 FISCHER, JANET J., North Carolina Mem. Hosp., Chapel Hill, N.C.
urinary tract disorders; pregnancy..premature delivery; bacteriuria; immunology..antibodies; antibiotics; therapy evaluation; longitudinal study; pyelonephritis; pregnancy toxemias and hypertension

HD-00853 EHRENKRANZ, N. JOEL, Sch. Med., Univ. Miami, Miami, Fla.
bacterial diseases; urinary tract; immunology; age; adults

HD-00854 MOLELLO, JOSEPH A., Sch. Vet. Med., Colorado State Univ., Fort Collins, Colo.
bacteria..Listeria monocytogenes; pregnancy..placenta; sheep; infectious bovine rhinotracheitis

HD-00861 CORDONNIER, JUSTIN J., Washington Univ., St. Louis, Mo.
urinary diversion; bacteria; urinary bladder neoplasms; kidney function; urinary tract disorders; chemotherapy

HD-01029 KOZINN, PHILIP J., Maimonides Hosp., Brooklyn, N.Y.
immunity; eye..conjunctiva; uterus..endometrium; uterus..cervix; fungi..Candida; bacteria; reaction sites; fungicides

HD-01536 MEDEARIS, DONALD N., Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
interferon; bacteria..Escherichia coli; lipopolysaccharides; phagocytosis; infant human; immunoglobulins; blood cells.. leukocytes; macrophages; infectious diseases; sex difference; viruses..cytomegaloviruses

HD-01805 MITCHELL, GEORGE W., Jr., St. Margaret's Hosp., Boston, Mass.
pregnancy; bacteriuria; phagocytosis; blood cells.. leukocytes; blood..serum; opsonins; host--parasite;

HD-01840 LANKFORD, CHARLES E., Grad. Sch., Univ. Texas, Austin, Tex.
bacteria..Bacillus; microbial culture; growth, microorganisms; iron; membrane permeability and transability and transport; electron transport; genetics; cell components..cytoplasm; genetic strains; mutation; nutrients; cell division..synchronous cell division; chemical structure--biological activity

HD-01881 HOWES, WILLIAM V., Col. Med., Univ. Illinois, Chicago, Ill.
bacteria..Escherichia coli; viruses..bacteriophage lambda; carbohydrases..beta--galactosidase; messenger ribonucleic acid; proteins

HE-01829 WANNAMAKER, LEWIS W., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
bacteria..Streptococcus group A; enzymes; molecular structure; nucleases..deoxyribonuclease; deoxyribonucleic acid; depolymerization; enzymes inhibitors

HE-03479 HOOK, EDWARD W., Sch. Med., Cornell Univ., New York, N.Y.
shock; bacteria..Gram--negative bacteria; toxicology; endotoxins; blood cells..thrombocytes; bacteria.. Salmonella; hyperbaric oxygenation; bacterial diseases

HE-03929 SEEGAL, BEATRICE C., Col. Phys., Surg., Columbia Univ., N.Y.C.
streptococcal infections; glomerulonephritis; rheumatic fever; immunology..antigen-antibody reactions; gamma globulin; ferritin labeled antibody technique; nephritis; fluorescein

HE-06433 QUINN, ROBERT W., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
bacteria..Streptococcus group A; children; epidemiology; immunofluorescence; longitudinal study; respiratory diseases; rheumatic heart diseases

HE-08399 DES PREZ, ROGER M., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
bacteria..gram-negative bacteria; blood..plasma; blood cells..thrombocytes; blood coagulation.. thrombin; blood vessels resistance; cell aggregation; endotoxins; enzymes inhibitors; heart function; hydrolases; immunology..antigen-antibody reactions; injury; pulmonary function; serotonin; shock

NB-04536 SEXTON, ROBERT R., Sch. Med., Univ. Miami, Coral Gables, Florida
conjunctivitis; blepharitis; nose; bacteria; bacteria.. Staphylococcus; surgery, postoperative; antibiotics; preventive medicine; latent virus diseases; infectious diseases; herpes simplex; eye surgery

NB-05021 CHICK, ERNEST W., West Virginia Univ., Morgantown, W.Va.
keratitis; trauma; adrenal cortex hormones; antibiotics; enzymes; fungi; bacteria; fungicides; ultraviolet rays; radiation therapy; therapy

OH-00019 KETHLEY, THOMAS W., Georgia Inst. Tech., Atlanta, Ga.
bacteria..airborne bacteria; hospitals..operating rooms; air sampling; sanitary engineering; hospitals design; hospitals infections; contamination; aerosols

WP-00002 DAVIDSON, FLOYD F., Baylor Univ., Waco, Tex.
algae..blue-green algae; anthelmintics; antibiotics; antiprotozoal agents; axenic culture; bacteria..enterobacteria; bacteria..Vibrio; immunology..antigens; spirochetes..Leptospira

WP-00009 SLANETZ, LAWRENCE W., Univ. New Hampshire, Durham, N.H.
sewage; water pollution; bacteria..enterobacteria; viruses..enteroviruses; bacteria..Streptococcus; taxonomy; microbial culture

WP-00239 STOKES, J.L., Grad. Sch., Washington State Univ., Pullman, Wash.
water pollution; bacteria..Sphaerotilus discophorus; growth, microorganisms; iron; manganese; autotrophy;

WP-00548 LUNDGREN, DONALD G., Grad. Sch., Liberal Arts, Syracuse Univ., Syracuse, N.Y.
bacteria..Thiobacillus ferrooxidans; oxidation; iron; sulfur; microbial culture; autotrophy; heterotrophy; mutations; water pollution

WP-00549 COLMER, ARTHUR R., Col. Arts, Sci., Louisiana State Univ., Baton Rouge, La.
water pollution; industrial waste; iron; sulfur compounds; autotrophy; bacteria..thiobacillus; microbial culture; culture media; oxidation

WP-00550 WALDEN, CECIL C., British Columbia Res. Council, Vancouver, B.C.
water pollution; bacteria..Thiobacillus ferrooxidans; ions.. anion; nutrients; growth, microorganisms; oxidation; iron; sulfur

WP-00616 GERENCSER, VINCENT F., West Virginia Univ. Med. Cr., Morgantown, W.Va.
bacteria; inland fresh waters; taxonomy; growth, microorganisms; ecology, microorganisms; seasonal variation

WP-00805 SILVEY, JOSEPH K.G., North Texas State Univ., Denton, Tex.
fungi..actinomycetes; marine biology; growth, microorganisms; amino acids; glycolysis; electrolytes; enzymes; ecology, microorganisms; taste; smell; metabolites

WP-00844 SCARPINO, PASQUALE V., Col. Eng., Univ. Cincinnati, Cincinnati, Ohio
bacteria..Escherichia coli; sewage; sea water; inland fresh waters; bactericides; cell death; cell culture; water pollution

BEHAVIORAL SCIENCES

CD-00039 MAUSNER, BERNARD, Beaver Col., Glenside, Pa.
attitudes; authority; cancer; cognition; communication; computer analysis; fear; programmed learning; smoking

CD-00126 ROTH, JULIUS A., Grad. Sch., Boston Univ., Boston, Mass.
hospitals patients; therapy; decision--making; subjective time; mental disorders; chronic disease

CD-00127 STEUART, GUY W., Sch. Pub. Hlth., Univ. California, Los Angeles, Cal.
habit; behavior; personality; smoking; stimulants; exercise; cardiovascular diseases

CH-00002 FIELD, MARK G., Univ. Illinois, Urbana, Ill.
publications..journal; medical practice; geographical sites..USSR

CH-00049 FORST, HENRY H., Grad. Sch., U. Utah, Salt Lake City, Utah
geographical sites..Arizona; migrants (sociological); community; role; social integration

CH-00050 ROMNEY, A. KIMBALL, Stanford U., Stanford, Cal.
attitudes; medical practice; ethnic groups..Mexican Indians; anthropology; social psychology

CH-00070 McCONNELL, FRANCES S., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.
public health; occupations; values; motivation; performance; employment..job satisfaction; interpersonal behavior..cooperation; administration; decision--making

CH-00077 LEVENTHAL, HOWARD, John S. Ely Cr. Health Education Res., Inc., New Haven, Conn.
attitudes; behavior; preventive medicine; motivation; perception; communication; fear; defense mechanisms

CH-00177 KNAPP, DAVID A., Col. Pharm., Ohio State Univ., Columbus, Ohio
pharmacists; role; public opinion; community service

DH-00019 MORRIS, RICHARD T., Univ. California, Los Angeles, Cal.
dental personnel; family; education; social-psychology attitudes; environment; longitudinal study

EF-00653 GORDON, CHAD, Grad. Sch. Arts. Sci., Harvard Univ., Cambridge, Mass.
socioenvironment..urban areas; community; leadership; attitude; community service; geographical sites.. Massachusetts; survey; decision--making

GM-11367 ZOLA, IRVING K., Brandeis Univ., Waltham, Mass.
attitudes; decision; medical services; preventive medicine; social psychology; socioculture

GM-11844 KUNSTADTER, PETER, Princeton Univ., Princeton, N.J.
ethnic groups..Lawa; socioculture; socioeconomics; agriculture; socioenvironment..rural areas; geographical sites..Thailand

GM-11845 COULT, ALLAN D., Col. Letters, Sci., Univ. California, Davis, Cal.
family..marriage; statistics; ethnic groups; socioculture; socioeconomics; socioenvironment; classification; computer analysis; publications.. monograph

GM-11854 GRAY, ROBERT F., Grad. Sch., Tulane Univ., New Orleans, La.
geographical sites..Africa; medical practice; ethnic groups; ecology, human; morbidity; survey

GM-13141 PAUL, BENJAMIN D., Sch. Arts, Sci., Stanford Univ., Stanford, Cal.
social change; community; socioenvironment.. rural areas; geographical sites..Guatemala; social organization; leadership; socioeconomics; travel; socioculture; interviews

HD-00327 FLANAGAN, JOHN C., Project Talent Office, Washington, D.C.
longitudinal study; manpower; survey; education.. secondary education; children..adolescence; academic achievement; psychological tests; personality; interests

HD-00872 DIVESTA, FRANCIS J., Grad. Sch., Syracuse Univ., Syracuse, N.Y.
learning..mediation; attitudes; conditioning.. verbal conditioning; socioculture; children

HD-00886 RILEY, MATILDA W., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
children..adolescence; adults; family..parents; values; social adjustment; longitudinal study; family..child rearing; family..parent--child

HD-00921 ENTWISLE, DORIS R., Grad. Sch., Johns Hopkins U., Baltimore, Md.
learning..association learning; age; children; survey

HD-01145 KEPPEL, Col. Letters, Sci., Univ. California, Berkeley, Cal.
child development; learning..association learning; learning..mediation; habit; age; memory--retention; socioculture

HD-01550 GOLDSTEIN, SIDNEY, Brown Univ., Providence, R.I.
aging; socioeconomics; social change; survey; statistics; computer analysis; socioenvironment.. urban areas; socioenvironment..rural areas; population dynamics, human

HD-01580 WEIR, RUTH H., Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.
child development; vocalization; semantics..language; infant human

HE-07522 WARDWELL, WALTER I., Sch. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.
myocardial infarct; survey; social psychology; coronary diseases; socioculture; socioenvironment..urban areas; stress; attitude; morals; religion; personality; self--concept; emotional reactions; ego; psychosomatic medicine; computer analysis; defense mechanisms; role; identification; sex behavior; sex difference

MH-00743 HORST, PAUL, Grad. Sch., Univ. Washington, Seattle, Wash.
biomathematics; psychometrics; mental health; disease classification; psychiatric patients; personality; interviews

MH-01096 WHITING, JOHN W. M., Grad. Sch. Educ., Harvard Univ., Cambridge, Mass.
behavioral adjustment; child development; family; social status; ethnic groups; morals; training

MH-01414 MILLER, WALTER B., Sch. Social Work, Boston Univ., Boston, Mass.
children..adolescence; interpersonal behavior; juvenile delinquency; socioculture; rehabilitation; social status; group work

MH-01876 WEPMAN, JOSEPH M., Univ. Chicago, Chicago, Ill.
psycholinguistics; aphasia; thematic apperception test; age; sex difference; socioeconomics; learning; semantics..languages

MH-02100 VOGT, EVON Z., Harvard Univ., Cambridge, Mass.
ethnic groups..Mexican Indians; anthropology

MH-03088 BOYER, L. BRYCE, Univ. New Mexico, Albuquerque, New Mexico
psychoanalysis; anthropology; ethnic groups.. American Indians; socioculture; personality

MH-03532 RAINER, JOHN, New York State Psy. Inst., New York, N.Y.
schizophrenia; family..marriage; fertility; survey

MH-03534 COSER, ROSE L., McLean Hosp., Belmont, Mass.
social organization..institutional organization; mental hospitals; education..medical education; psychiatrists; values; attitudes; interpersonal behavior; self-concept, role; longitudinal study

MH-03876 MILLS, THEODORE M., Yale Univ., New Haven, Conn.
authority; interpersonal behavior; sex difference

MH-04087 DE VOS, GEORGE A., Univ. California, Berkeley, Cal.
ethnic groups..Japanese-American; family; geographical sites..Japan; geographical sites..United States; juvenile delinquency; socioculture

MH-04097 GOLDSCHMIDT, WALTER, Col. Letters, Sci., Univ. California, Los Angeles, Cal.
ethnic groups..Africans; geographical sites..Africa; socioculture; socioenvironment

MH-04160 HERRING, PENDLETON, Social Sci. Res. Coun., New York, N.Y.
social organization; social adjustment; social psychology; information exchange; conferences..workshop; survey

MH-04186 MESSICK, SAMUEL J., Educational Test Service, Princeton, N.J.
psychological tests; personality; interpersonal behavior; cognition; intelligence; attitude

MH-04187 GOODGLASS, HAROLD, Clark Univ., Worcester, Mass.
aphasia; brain damage; communicative disorders; hearing; psychometrics; semantics..grammar

MH-04238 RAPOPORT, ANATOL, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
environment; interpersonal behavior..competition; interpersonal behavior..cooperation; interpersonal behavior.. small groups; mathematical models

MH-04306 HATHAWAY, STARKE R., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
social psychology; information exchange

(contd)

BEHAVIORAL SCIENCES (CONTD)

MH-04479 **ZIEGLER, FREDERICK J., Scripps Clin. Res. Fdn., La Jolla, Cal.**
longitudinal study; vasectomy; social psychology; family..marriage; motivation; interpersonal behavior; emotional reactions; self-concept

MH-04547 **AUBERT, VILHELM, Inst. Social Res., Oslo, Norway**
ecology, human; family; community; isolation; attitudes; personality; social integration; geographical sites..Norway

MH-04571 **JAFFE, JOSEPH, William Alanson White Inst., N.Y.C.**
dyadic interaction; computer programming; interviews; verbal behavior; communication; psycholinguistics

MH-04682 **ABELSON, ROBERT P., Grad. Sch., Yale Univ., New Haven, Conn.**
attitudes; cognition; computer programming; conflict; mathematical models; verbal behavior

MH-04684 **MALTZMAN, IRVING M., Grad. Sch., Univ. California, Los Angeles, Cal.**
thinking; conditioning; stimulus generalization; semantics; galvanic skin response; psychiatric patients; blood vessels vasomotion; autonomic reflexes

MH-04735 **CUMMING, MARGARET E., New York State Dept. Mental Hygiene, Syracuse, N.Y.**
mental disorders; deviant behavior; community service; physicians; clergy; police; mental hospitals; social worker, hospital--community relations

MH-04865 **LEVINE, ROBERT A., Univ. Chicago, Chicago, Ill.**
geographical sites..Africa; personality; socioculture; family..child rearing; ethnic groups

MH-04964 **NEWCOMB, THEODORE M., Univ. Michigan, Ann Arbor, Mich.**
dyadic interaction; education..university students; friendship; interpersonal behavior; interviews; peer group; values

MH-05120 **BRUNER, JEROME S., Harvard Cr. Cognitive Studies, Harvard Univ., Cambridge, Mass.**
child development; cognition; learning..sequential learning; concept; perception; problem solving; eye movement; education; semantics..language; thinking

MH-05162 **BANDURA, ALBERT, Grad. Sch., Stanford Univ., Stanford, Cal.**
children..preschool; interpersonal behavior; aggression; frustation; television; learning; identification; reinforcement; socioenvironment

MH-05268 **LENNEBERG, ERIC H., Children's Hosp. Med. Cr., Boston, Mass.**
child development; deafness; longitudinal study; mental retardation; speech

MH-05350 **SAWYER, JACK, Univ. Chicago, Chicago, Ill.**
conflict; interpersonal behavior; personality; communication

MH-05353 **SOLOMON, LEONARD F., Boston Univ., Boston, Mass.**
communication; games theory; interpersonal behavior..cooperation; interpersonal behavior..small groups; motivation; role; schizophrenia

MH-05356 **BACK, KURT W., Duke Univ., Durham, N.C.**
interpersonal behavior; lipids..plasma lipids; stress

MH-05589 **ROSEN, BERNARD C., Sch. Arts, Sci., Univ. Nebraska, Lincoln, Nebr.**
geographical sites..Latin America; family; authority; motivation; success--failure; socioeconomics

MH-05743 **WEINREICH, URIEL, Columbia Univ., N.Y.C.**
semantics..language; semantics..grammar; semantics.. vocabulary; logic; experimental psychology

MH-05837 **McCLOSKY, HERBERT, Col. Letters, Sci., Univ. California, Berkeley, Cal.**
attitudes; behavior; computer analysis; personality; politics; social psychology; survey

MH-05870 **STANTON, HOWARD R., Dept. Hlth., Santurce, Puerto Rico**
survey; employment; family; community; attitudes; mental health; geographical sites..Puerto Rico

MH-06093 **WOODS, FRANCES J., Sister, Our Lady Lake College, San Antonio, Tex.**
marginal groups; community; social organization; social status; role; social change; family

MH-06094 **PEABODY, DEAN, Swarthmore Col., Swarthmore, Pa.**
attitudes; cognition; values; learning; concept

MH-06185 **MAYBURY-LEWIS, DAVID, Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.**
geographical sites..Brazil; socioculture; social organization..institutional organization; anthropology; ethnic groups..Ge Indians

MH-06187 **FRAKE, CHARLES O., Grad. Sch., Stanford Univ., Stanford, Cal.**
socioculture; geographical sites..Philippines; semantics.. language; cognition; ecology, human; medical practice

MH-06191 **KRASNER, LEONARD P., Grad. Sch., Stanford Univ., Stanford, Cal.**
conditioning..verbal conditioning; reinforcement; interpersonal behavior; emotional reactions; anxiety; psychophysiology; attitudes; medical personnel; social desirability

MH-06227 **ARENSBERG, CONRAD M., Sch. Grad. Faculties, Columbia Univ., New York, N.Y.**
social change; industry; geographical sites..India; attitudes; community; social adjustment

MH-06228 **LAFFAL, JULIUS, Veterans Admin. Hosp., West Haven, Conn.**
semantics..language; schizophrenia; symbolism; psychiatric patients; psychotherapy

MH-06275 **SEWELL, WILLIAM H., Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.**
education..secondary education; attitudes; academic achievement; socioeconomics; socioenvironment; intelligence; sex difference; education..universities; career; decision-making; social psychology

MH-06276 **MISHLER, ELLIOT G., Sch. Med., Harvard Univ., Boston, Mass.**
children; family..parents; interpersonal behavior; problem solving; psychometrics; questionnaire; role; schizophrenia; siblings

MH-06506 **SAMPSON, EDWARD E., Univ. California, Berkeley, Cal.**
attitudes; conflict; environment; expectancy; interpersonal behavior..small groups; role; social status

MH-06550 **DEESE, JAMES, Johns Hopkins Univ., Baltimore, Md.**
learning..association learning; psycholinguistics; semantics..grammar; verbal behavior

MH-06597 **McEACHERN, A.W., Youth Studies Cr., Univ. Southern California, Los Angeles, Cal.**
deviant behavior; behavioral adjustment; court personnel; authority; prediction; computer analysis; geographical sites..California

MH-06615 **BERGER, MORROE, Princeton Univ., Princeton, N.J.**
community; education..university students; ethnic groups.. Negroes; leadership; morale; self concept; social change; social status; socioeconomics; survey

MH-06685 **ROSEN, SIDNEY, Grad. Sch., Marquette Univ., Milwaukee, Wis.**
bargaining theory; values; interpersonal behavior.. competition

MH-06830 **MISCHEL, WALTER, Grad. Sch., Stanford Univ., Stanford, Cal.**
age; behavior; personality; rewards and nonrewards; socioculture

MH-06836 **DULANY, DON E., Jr., Grad. Col., Univ. Illinois, Urbana, Ill.**
conditioning..verbal conditioning; cues; choice behavior; reinforcement; habit; concept

MH-06908 **LENNARD, HENRY L., Columbia Univ., New York, N.Y.**
computer analysis; interviews recording; interpersonal behavior; psychiatric patients; family.. parents; psychiatrists; psychotherapy; schizophrenia

MH-06921 **KANFER, FREDERICK H., Sch. Med., Univ. Oregon, Portland, Oregon**
verbal behavior; learning; conditioning..verbal conditioning; reinforcement; awareness; personality; psychotherapy

MH-06922 **KANFER, FREDERICK H., Sch. Med., Univ. Oregon, Portland, Ore.**
verbal behavior; learning; psychotherapy; reinforcement; dyadic interaction; conditioning..verbal conditioning; interviews

MH-06932 **KATZELL, RAYMOND A., Sch. Eng., New York Univ., N.Y.C.**
computer analysis; decision-making; game theory; interpersonal behavior; leadership; problem solving

MH-07019 **SALISBURY, RICHARD F., McGill Univ., Montreal, Canada**
ethnic groups..New Guinea Siane; ethnic groups..New Guinea Tolai; leadership; social organization; socioeconomics

MH-07083 **FRENCH, ELIZABETH G., Col. Liberal Arts, Northwestern Univ., Evanston, Ill.**
role; motivation; performance; sex difference; values

MH-07095 **COHEN, BURTON H., Lafayette Col., Easton, Pa.**
communication theory; verbal behavior; memory--retention; concept; learning..association learning

MH-07126 **ROBINS, LEE N., Washington Univ., St. Louis, Mo.**
children; behavior; family..parent-child; socioeconomics.. low income groups; ethnic groups..Negroes; prediction; criminology; success-failure; employment; longitudinal study

MH-07141 **SHACK, WILLIAM A., Haile Sellassie I Univ., University Col., Addis Ababa, Ethiopia**
conflict; ethnic groups..Gurage; geographical sites.. Africa; interpersonal behavior; religion; sex difference; social organization; socioculture; socioeconomics; symbolism

MH-07158 **SHORT, JAMES F., Jr., Sch. Arts, Sci., Washington State Univ., Pullman, Wash.**
community; juvenile delinquency..corner groups; socioculture

MH-07167 **TORREY, JANE W., Connecticut Col., New London, Conn.**
education..university students; learning; psycholinguistics

MH-07173 **ELLIOTT, DELBERT S., San Diego State Col. Fdn., San Diego, Cal.**
education..student drop-outs; juvenile delinquency; socioenvironment; social status; interpersonal behavior; peer group; attitudes; success-failure; longitudinal study; prediction

MH-07181 **WEINSTEIN, EUGENE, Grad. Sch., Vanderbilt Univ., Nashville, Tenn.**
social psychology; interpersonal behavior; dyadic interaction; ego; identity; role; self--concept; behavior rating scales

MH-07280 **KELMAN, HERBERT C., Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.**
socioenvironment; behavioral adjustment; motivation; survey; attitudes; ethnic groups..Scandinavians; geographical sites..United States; personality; social psychology

MH-07440 **HOWE, EDMUND S., Sch. Med., Univ. Maryland, Baltimore, Md.**
communication; computer analysis; learning; psycholinguistics; semantics..grammar; semantics..learning

MH-07463 **BOURGUIGNON, ERIKA, Ohio State Univ. Res. Fdn., Columbus, Ohio**
ethnic groups; psychoses; hallucinations; publications..literature survey; geographical sites; anthropology; religion

MH-07488 **SEBEOK, THOMAS A., Res. Cr. Anthrop., Folklore, Linguistics, Indiana Univ., Bloomington, Ind.**
communication; publications..literature survey; social behavior; species; phylogeny

MH-07566 **SCOTT, FRANCES G., Oregon State Hosp., Salem, Ore.**
mental hospitals; social organization..institutional organization; hospital-community relations; hospitals planning; therapy evaluation; survey

MH-07619 **RIEGEL, KLAUS F., Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.**
psycholinguistics; learning..association learning; semantics..language; semantics..vocabulary; education; adults; children; computer analysis

MH-07620 **TOBY, JACKSON, Grad. Sch., Rutgers State Univ., New Brunswick, N.J.**
behavior; juvenile delinquency; socioculture; survey; cooperative study; translations; geographical sites.. Japan; geographical sites..Sweden; geographical sites.. Israel

MH-07675 **MEAD, MARGARET, American Museum Natural History, New York, N.Y.**
anthropology; socioculture; ethnic groups..New Guinea Manus; ecology, human; interviews; semantics.. language; electronic recording; cinematography; psychological tests; mathematical models; longitudinal study; child development

MH-07677 **LOHMAN, JOSEPH D., Sch. Criminology, Univ. California, Berkeley, Cal.**
juvenile delinquency; children..adolescence; socio-environment..urban areas; peer group; values; social status; interviews; geographical sites..California; interpersonal behavior

MH-07809 **CARTERETTE, EDWARD C., Grad. Sch., Univ. California, Los Angeles, Cal.**
learning; discrimination; judgment; behavior; mathematical models; computer analysis; psychophysics

MH-07834 **HAMMEL, EUGENE A., Sch. Letters, Sci., Univ. California, Berkeley, Cal.**
anthropology; computer analysis; geographical sites.. Yugoslavia; interviews; publications..literature survey; social status; socioculture; symbolism; travel

MH-07835 **FESTINGER, LEON, Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.**
mental processes; decision--making; conflict; cognitive dissonance; experimental psychology; sense organs

MH-07913 **KAPLAN, BERT, Rice Univ., Houston, Tex.**
ethnic groups..American Indians; socioculture; attitudes; mental disorders; alcoholism; criminology

MH-07990 **RASHKIS, HAROLD A., Eastern Pennsylvania Psy. Inst., Philadelphia, Pa.**
child development; family..parent-child; interpersonal behavior; learning; longitudinal study; psycholinguistics; semantics..grammar; speech

MH-07998 **SCOTT, WILLIAM A., Col. Arts, Sci., Univ. Colorado, Boulder, Colo.**
adults; attitudes; cognition; psychological tests; stress

MH-08045 **HALL, EDWARD T., Illinois Inst. Technology, Chicago, Ill.**
interpersonal behavior; communication; social space; criteria; social psychology; sensory mechanisms; body position; voice; ethnic groups..Negroes; ethnic groups.. Puerto Rican; ethnic groups..Japanese; ethnic groups.. whites; geographical sites..Illinois

MH-08072 **LEFTON, MARK, Col. Arts, Sci., Western Reserve Univ., Cleveland, Ohio**
deviant behavior; employment; interviews; social adjustment; social status

MH-08106 **WEINREICH, URIEL, Grad. Sch., Columbia Univ., N.Y.C.**
communications; conflict; ethnic groups..Jewish; interviews; migrants (sociological); publications..atlas; semantics..language; socioculture

MH-08134 **TRYON, ROBERT C., Col. Letters, Sci., Univ. California, Berkeley, Cal.**
social psychology; behavior; ecology, human; genetics.. population genetics, animal; computer programming; publications..monograph; publications handbook; biomathematics

MH-08156 **MUSGRAVE, BARBARA S., Smith Col., Northampton, Mass.**
adults; cues; learning..association learning; psychometrics; semantics..language; verbal behavior

MH-08161 **ROBERTS, JOHN M., Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.**
adults; behavior; children; classification; education; ethnic groups..American Indians; publications..literature survey; socioculture

MH-08315 **BOURNE, LYLE E., Jr., Grad. Sch., Univ. Colorado, Boulder, Colo.**
cognition; concept; discrimination; learning; problem solving

MH-08334 **BIERI, JAMES, Brooklyn Col., Brooklyn, N.Y.**
judgment; communication theory; personality; cognition; attitudes

MH-08437 **QUAY, HERBERT C., Grad. Sch., Univ. Illinois, Urbana, Ill.**
juvenile delinquency; personality; psychometrics

MH-08472 **HOWES, DAVIS H., Boston Univ. Sch. Med., Boston, Mass.**
semantics..language; aphasia; learning..association learning; perception; statistics; computer analysis; speech

MH-08624 **PELZ, DONALD C., Survey Res. Cr., Univ. Michigan, Ann Arbor, Mich.**
employment..job satisfaction; social organization.. institutional organization; personality; performance; psychometrics

MH-08658 **BANTA, THOMAS J., Univ. Denver, Denver, Colo.**
interpersonal behavior..small groups; reinforcement; verbal behavior; personality; family; problem solving

MH-08778 **MORAN, LOUIS J., Univ. Texas, Austin, Tex.**
learning set; learning..association learning; attitude; concept; psycholinguistics

MH-08816 **CLINE, VICTOR B., Univ. Utah, Salt Lake City, Utah**
judgment; interviews recording; perception; interpersonal behavior; prediction; cues; personality; communication; psychometrics

MH-08854 **COLBY, BENJAMIN N., Museum of New Mexico, Santa Fe, N.Mex.**
semantics..language; cognition; values; socioculture; ethnic groups..American Indians; communication; computer analysis

MH-08862 **DAVENPORT, WILLIAM H., Univ. Pennsylvania, Philadelphia, Pa.**
personality; social status; role; social organization; socioculture; ethnic groups..Melanesians; geographical sites.. Pacific Islands

MH-08884 **DIXON, THEODORE R., Kentucky Res. Fdn., Univ. Kentucky, Lexington, Ky.**
verbal behavior; learning..association learning; conditioning..operant conditioning; conditioning.. extinction; reinforcement; semantics..language; semantics..grammar

MH-08903 **POLLIO, HOWARD R., Col. Liberal Arts, Univ. Tennessee, Knoxville, Tenn.**
verbal behavior; learning..association learning.. semantics..language; cognition; memory-retention

MH-08904 **ROSENBERG, SHELDON, George Peabody Col. Teachers, Nashville, Tenn.**
learning..association learning; semantics..language; semantics..grammar; memory-retention; adults

MH-08925 **CAMPBELL, ERNEST Q., Grad. Sch., Vanderbilt Univ., Nashville, Tenn.**
drinking behavior; education..university students; social psychology; attitude; morals; religion; family.. parent-child; survey; questionnaire; longitudinal study

MH-08970 **GRANT, J. DOUGLAS, Inst. Study Crime, Delinquency, Sacramento, Cal.**
criminology; interpersonal behavior; identification; classification; motivation; interviews; publications..handbook; computer analysis

MH-10192 **WALSTER, ELAINE C., Univ. Minnesota, Minneapolis, Minn.**
social psychology; accidents; judgment; attitude; disaster behavior; emotional reactions; perception; experimental psychology; adults

MH-10303 **GLICK, LEONARD B., Bryn Mawr Col., Bryn Mawr, Pa.**
anthropology; socioculture; socioenvironment.. rural areas; cognition; social organization; geographical sites..Greece

MH-10391 **BUCHER, M. RUE, Col. Med., Univ. Illinois, Chicago, Ill.**
career; training; values; role; identity; education post graduate education; physicians; psychiatrists

MH-10429 **GRIMSHAW, ALLEN D., Col. Arts, Sci., Indiana Univ., Bloomington, Ind.**
disaster behavior; community; social behavior; socioeconomics; social status; socioculture; social change; authority; politics; interviews; geographical sites..India

MH-10460 **SEEMAN, MELVIN, Grad. Sch., Univ. California, Los Angeles, Cal.**
social psychology; employment; social organization; identity; values; social change; attitude; social status; social behavior; interviews; geographical sites..United States; geographical sites..France

MH-10572 **NASH, JUNE C., Faculty Arts, Sci., Yale Univ., New Haven, Conn.**
socioculture; social change; ethnic groups..Maya Indians; geographical sites..Latin America

MH-10653 **SIMKINS, LAWRENCE, Univ. Missouri, Kansas City, Mo.**
verbal behavior; reinforcement; conditioning..operant conditioning; time; interpersonal behavior; adults

MH-10671 **RETTIG, SALOMON, Psychiatric Inst., Hosp., Columbus, Ohio**
socioculture; socioenvironment..rural areas; geographical sites..Israel; social change; criminology; deviant behavior; juvenile delinquency

MH-10683 **MILLER, FRANK C., Col. Lib. Arts, Univ. Minnesota, Minneapolis, Minn.**
ethnic groups..American Indians; social change; socioculture

MH-10698 **GORDON, ROBERT A., Fac. Philosophy, Johns Hopkins Univ., Baltimore, Md.**
juvenile delinquency..corner groups; values; social desirability; behavior; conflict; children..adolescence; age; intelligence; socioenvironment; psychometrics; social psychology

(contd)

LISTING OF GENERAL RESEARCH AREAS

BEHAVIORAL SCIENCES (CONTD)

MH-10735 **LEWIT, DAVID W.,** Univ. Michigan, Ann Arbor, Mich.
role; perception; judgment; interpersonal behavior.. small groups

MH-10764 **LACHMAN, ROY,** State Univ. New York, Buffalo, N.Y.
memory--retention; learning..association learning; learning..sequential learning; cognition; visual stimulus; adults; verbal behavior

MH-10783 **SCHNEIDER, DAVID M.,** Sch. Social Sci., Univ. Chicago, Chicago, Ill.
socioculture; family..marriage; concept; psycholinguistics; ethnic groups..Americans; ethnic groups..Negroes; ethnic groups..American Indians; geographical sites..United States, Midwest; geographical sites..United States, Southwestern; geographical sites..West Indies; socioenvironment..urban areas; socioenvironment.. rural areas; children; adults; age; sex difference

MH-10831 **HERMAN, LOUIS M.,** Queens Col., Flushing, N.Y.
performance; behavior; stimulus; criteria; response; sensory feedback; kinesthesis; communication theory

MH-10861 **CAPLOW, THEODORE,** Columbia Univ., New York, N.Y.
deviant behavior; social behavior; life cycle; family; peer group; social psychology; socioeconomics; courts; alcoholism; drugs addiction; homosexuality; community service; survey

MH-10940 **WERNER, OSWALD,** Col. Anthropology and Linguistics, Northwestern Univ., Evanston, Ill.
publications..dictionaries; medical practice; socioculture; semantics..language; semantics.. grammar; mathematical models; cognition; ethnic groups..American Indians

MH-10991 **CURTIS, RICHARD F.,** Col. Liberal Arts, Univ. Arizona, Tucson, Ariz.
social behavior; social status; orientation (psychological); role; occupations; socioenvironment..urban areas; geographical sites..United States, Midwest; interviews

MH-11000 **MARSH, ROBERT M.,** Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.
geographical sites..Formosa; ethnic groups; socioculture; social change; socioenvironment.. urban areas; social status; family

MH-11108 **METZGER, DUANE G.,** Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
drinking behavior; ethnic groups..Mexican Indians; geographical sites..Latin America; socioculture; attitudes; habit; travel

MH-11178 **BYRNE, DONN E.,** Col. Arts, Sci., Univ. Texas, Austin, Tex.
interpersonal behavior; attitude; reinforcement; learning; rewards and nonrewards; computer analysis; emotional reactions; identity

MH-11236 **JOHNSON, NEAL F.,** Ohio State Univ. Res. Fdn., Columbus, Ohio
verbal behavior; semantics..language; semantics.. grammar; learning..association learning; psychometrics

MH-11362 **JACKSON, DON D.,** Mental Res. Inst., Palo Alto, Cal.
family; interpersonal behavior; communication theory; psychometrics; interviews

NB-04380 **ROSENSTEIN, JOSEPH,** Lexington Sch. for the Deaf, New York, N.Y.
psycholinguistics; children; deafness; learning; semantics..grammar

BEHAVIORAL SCIENCES FELLOWSHIP PANEL

MH-07694 **GARLAND, WILLIAM,** Western Michigan Univ., Kalamazoo, Mich.
ecology, human; socioculture; ethnic groups..Africans; geographical sites..Africa; interviews

MH-07718 **SCHNEIDER, DAVID M.,** Univ. Chicago, Chicago, Ill.
geographical sites..Caroline Islands; ethnic groups.. Polynesians; social organization; family; population dynamics, human

MH-07877 **TAX, SOL,** Sch. Social Sci., Univ. Chicago, Chicago, Ill.
conflict; geographical sites..Guatemala; interviews; orientation (psychological); social change; socioculture; values

MH-07895 **STANIFORD, PHILIP S.,** Grad. Sch., London Sch. Economics, London, England
migrants (sociological); social adjustment; socioculture; geographical sites..Brazil; ethnic groups..Japanese; social integration

MH-08194 **SCHNEIDER, DAVID M.,** Univ. Chicago, Chicago, Ill.
family..marriage; family..parents; siblings; symbolism; role; socioeconomics; ethnic groups; geographical sites.. India; religion; social organization

MH-08322 **McCALL, DANIEL F.,** Grad. Sch., Boston Univ., Boston, Mass.
social change; socioculture; religion; conflict; values; family; ethnic groups..Diola; geographical sites..Africa

MH-08507 **WASHBURN, SHERWOOD L.,** Univ. California, Berkeley, Cal.
geographical sites..Malaya; primates..gibbons; ecology, animal; social behavior

MH-08602 **SIEGEL, BERNARD J.,** Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.
socioculture; social adjustment; migrants (sociological); ethnic groups..Japanese; interviews; geographical sites.. Asia

MH-08746 **KENNEDY, ELIZABETH J.,** Univ. Cambridge, Cambridge, England
ethnic groups; geographical sites..Colombia; social organization; family; religion

MH-08962 **COHEN, LUCY M.,** Grad. Sch. Arts, Sci., Catholic Univ. America, Washington, D.C.
geographical sites..Latin America; socioenvironment.. urban areas; social change; leadership; career; role; social status; decision--making; values

MH-08964 **FALLERS, LLOYD A.,** Univ. Chicago, Chicago, Ill.
geographical sites..Africa; ethnic groups..Africans; socioculture; social change; travel

MH-08997 **MEAD, MARGARET,** Grad. Faculties, Columbia Univ., New York, N.Y.
socioenvironment..rural areas; socioculture; socioeconomics..wages; migrants (sociological); family; industry; socioenvironment..urban areas; geographical sites..Asia

MH-10070 **HARRIS, MARVIN,** Columbia Univ., New York, N.Y.
geographical sites..Latin America; religion; socioeconomics; socioculture; symbolism; semantics; conflict

MH-10095 **CASAGRANDE, JOSEPH B.,** Grad. Col., Univ. Illinois, Urbana, Ill.
population dynamics, human; migrants (sociological); social change; isolation; social adjustment; expectancy; social psychology; ethnic groups.. Japanese; geographical sites..Bolivia; geographical sites..Japan; socioenvironment..rural areas

MH-10148 **HAMMEL, EUGENE,** Sch. Letters, Sci., Univ. California, Berkeley, Cal.
social change; industry; community; conflict; social organization; authority; decision-making; leadership; socioeconomics; geographical sites..Yugoslavia

MH-10149 **FOSTER, GEORGE M.,** Grad. Sch., Univ. California, Berkeley, Cal.
socioenvironment..rural areas; social organization; community; interpersonal behavior; ethnic groups.. Mexican Indians; geographical sites..Mexico; anthropology

MH-10150 **SPINDLER, GEORGE D.,** Col. Humanities, Col. Humanities, Stanford Univ., Stanford, Cal.
socioculture; cognition; social adjustment; ethnic groups..American Indians; semantics..language; interviews; social status; conflict

MH-10151 **WAGLEY, CHARLES,** Grad. Faculties, Columbia Univ., New York, N.Y.
ethnic groups..American Indians; geographical sites.. Latin America; socioenvironment; socioeconomics; social change; awareness; values; role; travel

MH-10152 **SMITH, ROBERT J.,** Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.
social change; role; community; industry; employment; socioeconomics; interviews; questionnaire; geographical sites..Venezuela

MH-10158 **PETERS, EMRYS L.,** Sch. Social Anthropology, Victoria Univ., Manchester, England
geographical sites..Tunisia; socioenvironment..rural areas; ethnic groups..Arabs; leadership; socioculture; social change

MH-10159 **OLIVER, DOUGLAS L.,** Grad. Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
ethnic groups; geographical sites..Malaysia; migrants (sociological); population dynamics, human

MH-10160 **FOSTER, GEORGE M.,** Univ. California, Berkeley Cal.
socioculture; isolation; community; socioenvironment.. rural areas; social organization; socioeconomics; authority; education; geographical sites..France

MH-10161 **NEEDHAM, RODNEY,** Univ. Oxford, Oxford, England
geographical sites..Indonesia; ethnic groups; socioculture; family..marriage; semantics

MH-10306 **WHITING, J.W.,** Grad. Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
socioculture; family..child rearing; interviews recording; travel; ethnic groups..American Indians; geographical sites..Canada

MH-10314 **HOWELLS, W.W.,** Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
primates..Macaca mulatta; ecology, animal; free behavior; geographical sites..India; population dynamics, animal; disease transmission; travel

MH-10408 **BRUNER, EDWARD M.,** Grad. Col., Univ. Illinois, Urbana, Ill.
anthropology; socioculture; social change; geographical sites..Africa; ethnic groups.. Africans

MH-10563 **BASCOM, WILLIAM R.,** Grad. Sch., Univ. California, Berkeley, Cal.
ethnic groups; geographical sites..Africa; socioculture; role; interpersonal behavior

MH-10564 **FOSTER, GEORGE M.,** Col. Letters, Sci., Univ. California, Berkeley, Cal.
socioculture; social change; social adjustment; social behavior; conflict; public health; geographical sites..British Honduras; marginal groups

MH-10575 **NEEL, JAMES V.,** Sch. Med., Univ. Michigan, Ann Arbor, Mich.
anthropology; socioculture; genetics..population genetics, human; ethnic groups..GE Indians; geographical sites..Brazil; nutrition; mortality

MH-10579 **SMITH, ROBERT J.,** Grad. Sch., Cornell Univ., Ithaca, N.Y.
ethnic groups..Japanese; geographical sites..Japan; religion; symbolism; socioculture; social change; socioenvironment..urban areas; values; conflict; social adjustment

MH-10582 HOLMBERG, ALLAN R., Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.
socioculture; geographical sites..Colombia; social status; occupations; family..parents

MH-10619 FISCHER, JOHN L., Col. Arts, Sci., Tulane Univ., New Orleans, La.
ethnic groups..American Indians; geographical sites ..New Mexico; socioculture; social psychology

MH-10630 READ, KENNETH E., Sch. Arts, Sci., Univ. Washington, Seattle, Wash.
authority; cognition; personality; social adjustment; family..child rearing; values; attitude; interviews; psychological tests; ethnic groups; geographical sites..New Guinea

MH-10986 ROBERTS, JOHN M., Grad. Sch., Cornell Univ., Ithaca, N.Y.
anxiety; socioculture; psychological tests; ethnic groups..Chinese; ethnic groups..Polynesians; geographical sites..Society Islands; sex behavior

MH-11027 KAEPPLER, ADRIENNE L., Bernice P. Bishop Museum, Honolulu, Hawaii
anthropology; social organization; interpersonal behavior; ethnic groups..Polynesians; geographical sites..Pacific islands; aesthetics; creativity; perception; learning; interviews; travel

MH-11099 SIMONDS, PAUL E., Univ. Oregon, Eugene, Ore.
ecology, animal; primates..Macaca radiata; population dynamics, animal; social behavior; geographical sites.. India; travel

MH-11193 LAMBERT, WILLIAM W., Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.
social organization; migrants, sociological; family; ethnic groups..Chinese; geographical sites..Malaysia; religion; questionnaire; attitude; personality; maternal behavior; interviews; social space; socioeconomics; travel

MH-11273 WASHBURN, SHERWOOD L., Univ. California, Berkeley, Cal.
communication; vocalization; facial expression; free behavior; primates..Macaca; travel; geographical sites..Malaysia

MH-11332 WYLIE, LAURENCE, Harvard Univ., Cambridge, Mass.
socioculture; social change; ethnic groups; geographical sites..Yugoslavia; interviews; translations

MH-11350 WALLACE, ANTHONY F., University Museum, Philadelphia, Pa.
social psychology; superstitions; disease transmission; ethnic groups..Africans; geographical sites..Africa; travel

MH-11478 VOGT, EVON Z., Grad. Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
communication; verbal behavior; ethnic groups..Mexican Indians; geographical sites..Latin America; audiostimulus; interviews recording; socioculture; computer analysis

MH-11487 WASHBURN, SHERWOOD L., Col. Letters, Sci., Univ. California, Berkeley, Cal.
social behavior; ecology, animal; primates..Macaca mulatta; travel; geographical sites..Puerto Rico

MH-11628 POTTER, JACK M., Col. Letters, Sci., Univ. California, Berkeley, Cal.
anthropology; socioeconomics..housing; socio-environment; ethnic groups..Chinese; geographical sites..Asia; travel

MH-11629 PHILLIPS, HERBERT P., Col. Letters, Sci., Univ. California, Berkeley, Cal.
geographical sites..Japan; socioenvironment..urban areas; socioeconomics..housing; social change; socioculture

MH-11631 BEIDELMAN, THOMAS O., Grad. Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
ethnic groups..American Indians; geographical sites.. New Mexico; socioculture; socioenvironment; family; social organization

BIOCHEMISTRY

AI-00575 KOFFLER, HENRY, Purdue Univ., Lafayette, Ind.
circulin; cell; diaminobutyric acid; peptide templates; chemical structure--biological activity; cyclic peptides; antibiotics; leucine

AI-00670 WILLIAMS, ROBERT P., Sch. Med., Baylor Univ., Houston, Tex.
amino acid; bacteria..Serratia mercescens; mutations; prodigiosin; pyrrole

AI-00965 PRESCOTT, JOHN M., A. and M. Col. Texas, College Station, Tex.
bacteria; marine biology; proteases

AI-01181 BOREK, ERNEST, Col Phys., Surg., Columbia Univ., New York, N.Y.
bacteria..Escherichia coli; ultraviolet rays; radiation

AI-01424 EICHEL, HERBERT J., Hahnemann Med. Col., Philadelphia, Pa.
protozoa..Tetrahymena pyriformis; oxidative phosphorylation; respiratory enzymes; electron transport

AI-01459 HALVORSON, HARLYN O., Grad. Sch., Univ. Wisconsin, Madison, Wis.
carbohydrases..glycosidases; genetics..genes; fungi.. yeasts; proteins; cell components..ribosomes; membrane permeability; glycosides

AI-01487 HOLDEN, JOSEPH T., City Hope Med. Cr., Duarte, Cal.
amino acid; bacteria..Bacillus subtilis; bacteria.. Lactobacillus arabinosus; cell components..cell membrane; cell components..cell wall; dietary deficiency; membrane permeability; nucleic acids; pyridoxine

AI-01571 GARNER, HAROLD R., Purdue Univ., Lafayette, Ind.
fungi..Neurospora crassa; growth factors; mutations; amino acid; methionine

AI-01659 WHEAT, ROBERT, Sch. Med., Duke Univ., Durham, N.C.
aminopolysaccharides; lipopolysaccharides; bacteria ..Gramnegative bacteria; amino sugars; cell components cell wall; molecular structure; chemical structure

AI-01837 OGINSKY, EVELYN L., Sch. Med., Univ. Oregon, Portland, Ore.
serotonin; 5-hydroxytryptophan; 5-hydroxyindole acetic acid; bacteria; enzymes

AI-01854 FRASER, DEAN, Sch. Arts, Sci., Indiana Univ., Bloomington, Ind.
bacteria; cell-free systems; deoxyribonucleic acid; diamines; dyes; proteins; radiolabeled; ribonucleic acid; virus replication; viruses..bacteriophage

AI-02416 GOLDMAN, DEXTER S., Grad. Sch., Univ. Wisconsin, Madison, Wis.
bacteria..Mycobacterium tuberculosis; NADH2; NAD linked enzymes; cell--free systems; cell components.. cell membrane; oxidative phosphorylation; electron transport; stereochemistry

AI-02531 RODENBERG, SIDNEY D., Univ. Pennsylvania, Philadelphia, Pa.
bacteria..Bacillus cereus; catalase; heat lability; proteins; spores

AI-02640 GEST, HOWARD, Grad. Sch. Arts, Sci., Washington Univ., St. Louis, Mo.
autotrophy; bacteria..photosynthetic bacteria; phosphorylation; organic acids; electron transport; photochemistry; pyridine nucleotides

AI-02967 JOHNSON, MARVIN J., Col. Agr., Univ. Wisconsin, Madison, Wis.
aeration; L-cells; culture media; growth (microorganisms); penicillin

AI-03170 HOTCHKISS, ROLLIN D., Rockefeller Inst., N.Y.C.
bacteria..Diplococcus pneumoniae; deoxyribonucleic acid; drugs resistance; enzymes; folic acid; mutations; sulfonamides

AI-03352 GORDON, MILTON P., Sch. Med., Univ. Washington, Seattle, Wash.
viruses..tobacco mosaic virus; substitution reactions (chemistry); ribonucleic acid; 5-fluorouracil; radiation effects; ultraviolet rays; trace elements; chemical structure--biological activity; heavy metals

AI-03400 MARKHAM, ROY, Virus Res. Unit., Cambridge, England
viruses..proteins; peptides; polynucleotides; nucleic acids; ribonucleic acid; molecular structure; taxonomy; electron microscopy

AI-03426 SCHRAMM, MICHAEL, Hebrew Univ. of Jerusalem, Jerusalem, Israel
cell components..granules; parotid gland; nucleases..deoxyribonuclease; carbohydrases..amylases; epinephrine

AI-03469 ROTHSTEIN, MORTON, Kaiser Fdn. Res. Inst., Richmond, Cal.
amino acid; Krebs cycle; glycine; radiolabeled carbon; acetates; Kornberg--Krebs glyoxylate cycle; enzymes

AI-03505 GRISOLIA, SANTIAGO, Sch. Med., Univ. Kansas, Kansas City, Kans.
enzymes; heat lability; radiation effects; enzyme substrate complex; coenzymes; enzymes inhibitors; proteins

AI-03528 SHARON, NATHAN, Weizmann Inst. Science, Rehovoth, Israel
2--amino--4--acetamido--2,4,6--trideoxy hexose; chemical structure--biological activity; bacteria.. Bacillus licheniformis; polysaccharides; antibiotics; antineoplastic agents; microorganisms; tissue; screening

AI-03568 HAROLD, FRANKLIN M., Natl. Jewish Hosp., Denver, Colo.
polyphosphates; adenosine triphosphate; bacteria.. Aerobacter aerogenes; metabolites; bacteria; bacteria.. Streptococcus faecalis

AI-03586 CYNKIN, MORRIS A., Sch. Med., Tufts Univ., Boston, Mass.
enzymes; polysaccharides; bacteria..Salmonella; bacteria.. escherichia

AI-03710 DUNN, FLOYD W., Univ. Tennessee Med. Units, Memphis, Tenn.
amino acid analogs; peptides; peptides analogs; synthesis; thienylalanine

AI-03899 FLAKS, J.G., Sch. Med., Univ., Pennsylvania, Philadelphia, Pa.
antibiotics; bacteria..Escherichia coli; proteins; streptomycin; synthesis; viruses..bacteriophage

AI-03952 TANENBAUM, STUART W., Col. Phys. and Surgeons, Columbia Univ., N.Y.C.
cyclic compounds; fungi..Penicillium; pyridine; tropolones; cell-free systems; radiolabeled

AI-03957 PIZER, LEWIS I., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
serine; phosphoserine; bacteria..Escherichia coli; enzyme inhibitors

AI-03998 MONOD, JACQUES L., Inst. Pasteur, Paris, France
genetics..genes; proteins; messenger ribonucleic acid

AI-04065 HORNER, WILLIAM H., Sch. Med., Dent., Georgetown Univ., Washington, D.C.
streptomycin; fungi..Streptomyces; streptidine; L-streptose; N-methyl-L-glucosamine; glycosides; enzymes

(contd)

LISTING OF GENERAL RESEARCH AREAS

AI-04257 SIMMONDS, SOFIA, Sch. Med., Yale Univ., New Haven, Conn.
bacteria..Escherichia coli; growth factors; amino acids; peptides; amides; bacteriolysis; proteases..peptidases; enzyme substrate complex; threonine; glycine; auxotrophs

AI-04258 SHAW, PAUL D., Grad. Sch., Univ. Illinois, Urbana, Ill.
culture media; enzymes substrate complex; fungi.. Penicillium; fungi..Streptomyces venezuelae; nitrogen compounds; organic compounds; radiolabeled carbon; stable isotope labeled nitrogen; stable isotope labeled oxygen

AI-04445 WOLIN, MEYER J., Grad. Sch., Univ. Illinois, Urbana, Ill.
bacteria..Vibrio succinogenes; electron transport; cytochrome; hydrogen peroxide; cell death; chemical structure; hydrogenases; bacteriolysis

AI-04479 KOERNER, JAMES F., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
viruses..bacteriophage; bacteria; cell; proteins; cell-free systems

AI-04481 CORCORAN, JOHN W., Sch. Med., Western Reserve Univ., Cleveland, Ohio
erythromycin; chemical structure--biological activity; lipids; sugar; erythronolide; propionic acid; fungi.. Streptomyces erythreus; fungi..actinomycetes; antibiotics

AI-04501 MERRICK, JOSEPH M., Sch. Med., State Univ. New York, Buffalo, N.Y.
β--hydroxybutyric acid; polymers; molecular structure; bacteria; enzymes

AI-04555 LOVE, SAMUEL H., Sch. Med., Wake Forest Col., Winston-Salem, N.C.
bacteria..Cellvibrio; mutations; fluorescence; pigments; chemical structure--biological activity

AI-04571 UMBREIT, WAYNE W., Sch. Arts, Sci., Rutgers, The State Univ., New Brunswick, N.J.
streptomycin; phospholipids; bacteria; cell components.. cell membrane; proteins; cell-free systems

AI-04572 LAMPEN, J. OLVER, Rutgers Univ., New Brunswick, N.J.
carbohydrases..β--fructofuranosidase; ion exchange and transport; potassium; fungi..yeasts; nystatin; cell components..protoplastic membrane; binding; D--mannans; antibiotics; griseofulvin; nucleic acids

AI-04615 NEUHAUS, FRANCIS C., Northwestern Univ., Evanston, Ill.
bacteria; cell components..cell wall; D--alanine; synthetase..D--alanyl--D--alanine synthetase; D--cycloserine; dipeptides analogs; mucopeptides; antibiotics

AI-04671 BOREK, ERNEST, Col. Phys., Surg., Columbia Univ., New York, N.Y.
bacteria..Escherichia coli K12; ribonucleic acid; dietary deficiency; chemical structure--biological activity; methylation; amino acid

AI-04672 AKAGI, JAMES M., Grad. Sch., Univ. Kansas, Lawrence, Kans.
bacteria..sulfate--reducing bacteria; bacteria..Clostridium nigrificans; electron transport; enzymes; sulfates; nutrients

AI-04673 CAMPBELL, L. LEON, Grad. Sch., Univ. Illinois, Urbana, Ill.
sulfates; reduction; enzymes; bacteria..Desulfovibrio desulfuricans; bacteria..Clostridium nigrificans

AI-04796 VOGEL, HENRY J., Grad. Sch., Rutgers Univ., New Brunswick, N.J.
enzymes; genetics..genes; bacteria..Escherichia coli; arginine

AI-04884 ASTRACHAN, LAZARUS, Sch. Med., Western Reserve Univ., Cleveland, Ohio
aminotransferases..tyrosine transaminase; bacteria; carbohydrases..amylases; catalase; cell components; deoxyribonucleic acid; genetic mapping; immunology..antibodies; messenger ribonucleic acid; mutations; proteins; radiolabeled phosphorus; viruses

AI-04893 ROGERS, PALMER, Jr., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
bacteria..Escherichia coli; cell-free systems; enzymes inhibitors; mutations; nucleic acids; radiation effects; transcarbamylases..ornithine transcarbamylase; ultraviolet rays

AI-04914 MAALOE, OLE, Univ. Inst. Microbiology, Copenhagen K, Denmark
bacteria; deoxyribonucleic acid replication; transfer ribonucleic acid; genetics..genome; proteins; cell components..ribosomes

AI-05016 HEARN, WALTER R., Col. Agr., Iowa State Univ. Sci., Tech., Ames, Iowa
antimetabolites; bacteria..Serratia marcescens; mutations; prodigiosin; pyrrole

AI-05082 SWARTZ, MORTON N., Massachusetts Gen. Hosp., Boston, Mass.
bacteria; deoxyribonucleic acid; methionine; 6-methylaminopurine; methylation; polymerases; viruses.. bacteriophage

AI-05084 KOEPPE, OWEN J., Sch. Med., Univ. Missouri, Columbia, Mo.
immunology..antibodies; proteins; cell--free systems; hydrocortisone; enzymes; messenger ribonucleic acid; cell components..ribosomes

AI-05090 PARK, JAMES T., Sch. Med., Tufts Univ., Boston, Mass.
bacteria..Escherichia coli; bacteria..Micrococcus lysodeikticus; bacteria..Staphylococcus aureus; cell components..cell wall; molecular structure; mucopeptides

AM-05096 BERNLOHR, ROBERT W., Sch. Med. Sci. Univ. Minnesota, Minneapolis, Minn.
spores; bacteria..Bacillus licheniformis; growth factors; ornithine; D-amino acid; peptides; cell components; auxotrophs; chemical structure; enzymes; antibiotics

AI-05200 WAGNER, CONRAD, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
organic compounds; bacteria; microbial culture; enzymes; genetic strains; cell-free systems; 1-carbon compounds

AI-05341 CAMERON, J.A., Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.
bacteria..lactobacillus; genetic strains; nucleases; microbial culture; fractionation; chemical structure--biological activity

AI-05535 MANDELSTAM, PAUL, Col. Med., Univ. Kentucky, Lexington, Ky.
3,6-diaminohexanoic acid; antibiotics; amino acid analogs; bacteria..Staphylococcus aureus; cell components.. cell wall; nucleotides; lysine; diaminopimelic acid; nephrotoxins

AI-05634 MATHER, JANE H., Illinois Inst. Technology, Chicago, Ill.
carbohydrates; bacteria..Diplococcus pneumoniae; flavoprotein enzymes; reaction sites; pentose pathway

AI-05696 CONRAD, H. EDWARD, Grad. Sch., Univ. Illinois, Urbana, Ill.
bacteria..Aerobacter aerogenes; cell-free systems; enzymes; molecular structure; nucleoside phosphates; polysaccharides; radiolabeled carbon

AI-05773 SISTROM, WILLIAM R., Grad Sch., Univ. Oregon, Eugene, Ore. bacteria..photosynthetic bacteria; mutations; chromatophores; photosynthesis; microbial culture; cell-free systems; genetics

AI-05820 DOWNEY, RONALD J., Col. Sci., Univ. Notre Dame, Notre Dame, Ind.
electron transport; oxidative phosphorylation; quinones; respiratory enzymes; bacteria..Bacillus stearothermophilus; bacteria..Bacillus subtilis

AI-05924 SNOKE, JOHN E., Sch. Med., Univ. California, Los Angeles, Cal.
peptides; antibiotics; enzymes

AI-05991 MATHEWS, CHRISTOPHER K., Faculty Arts, Sci., Yale Univ., New Haven, Conn.
bacteria..Escherichia coli; 1-carbon compounds; cell differentiation; cell division; dehydrogenases..tetrahydrofolate dehydrogenase; enzymes; enzymes inhibitors; growth, microorganisms; host-virus; nucleic acids; viruses ..bacteriophage

AI-06247 STROMINGER, JACK L., Sch. Med., Univ. Wisconsin, Madison, Wis.
antibiotics; bacteria..Staphylococcus aureus; cell components..cell wall; growth inhibitors; molecular structure; nucleotides; penicillin

AI-06424 REDDI, KUTUMBA K., The Rockefeller Inst., New York, N.Y.
ribonucleic acid; viruses..tobacco mosaic virus; cell components..microsomes; host--virus; ribonucleoside--5'--pyrophosphates; enzymes

AI-06447 HOARE, DEREK S., Col. Arts, Sci., Univ. Texas, Austin, Tex.
amino acids; acetates; bacteria..photosynthetic bacteria; bacteria..Chlorobium thiosulfatophilum; bacteria..Rhodospirillum rubrum; anaerobes; cell--free systems; enzymes; glutamates; coenzyme A..acetyl--coenzyme A

AI-06604 CARTER, CHARLES E., Sch. Med., Western Reserve Univ., Cleveland, Ohio
chloramphenicol; nucleic acids; proteins; enzymes inhibitors; reaction sites; bacteria..Escherichia coli; fractionation

AM-00535 LASKOWSKI, MICHAEL, Sr., Sch. Med., Marquette Univ., Milwaukee, Wis.
proteases..chymotrypsin B; proteases..chymotrypsinogen B; chemical structure; enzyme inhibitors..trypsin inhibitors; reaction sites; molecular structure; amino acids; amino acid sequence; pancreas; chemical structure--biological activity; methionine

AM-00546 SPRINSON, DAVID B., Col. Phys., Surg., Columbia Univ., New York, N.Y.
amino acids; prephenic acid; shikimic acid; 3--enolpyruvylshikimate--5--phosphate; isomerases.. glutamate racemase; isomerases..methylmalonyl isomerase; coenzyme A; methylmalonate; vitamin B12; ligases; stereochemistry

AM-00567 KNOX, W. EUGENE, New England Deaconess Hosp., Boston, Mass.
tryptophan; tyrosine; hormones; aminotransferases.. tyrosine transaminase; amidases..tryptophan pyrrolase; growth; embryology

AM-00582 CHELDELIN, VERNON H., Sch. Sci., Oregon State Univ., Corvallis, Ore.
enzymes; bacteria..Acetobacter suboxydans; fractionation; electron transport; embryology; amino acid; carbohydrates; oxidation; glutamates; glucose; pentose pathway

AM-00608 CARPENTER, FREDERICK H., Grad. Sch., Univ. California, Berkeley, Calif.
insulin; chemical structure--biological activity; proteases, peptidases; peptide templates

AM-00739 STERN, JOSEPH R., Sch. Med., Western Reserve Univ., Cleveland, Ohio
acetates: bacteria..Pseudomonas: coenzyme A..glutaryl coenzyme A: ketone bodies: liver: oxidation

AM-00922 SALLACH, H.J., Sch. Med., Univ. Wisconsin, Madison, Wis.
hydroxyaspartic acid; hydroxypyruvic acid; plants; radiolabeled carbon: serine

AM-00969 MACKENZIE, COSMO G., Sch. Med., Univ. Colorado, Denver, Colo.
1-carbon compounds; cell components..mitochondria; chemical structure; dehydrogenases..sarcosine dehydrogenase; deuterium; electron transport; enzymes inhibitors; flavoprotein enzymes; oxidases..N,N-dimethylglycine:O2 oxidoreductase; radiolabeled carbon; sulfur compounds

AM-01000 CHU, EDITH J.H., Immaculate Heart Col., Los Angeles, Cal.
porphyrins; porphyria; chemical structure; porphobilinogen; coproporphyrins; uroporphyrins; chlorins

AM-01010 BOGORAD, LAWRENCE, Univ. Chicago, Chicago, Ill.
chlorophyll; phycobilins; porphyrins; prodigiosin; pyrrole

AM-01260 WOOLLEY, D.W., Rockefeller Inst., N.Y.C.
aromatic amino acids; enzymes; polypeptides; proteases.. chymotrypsin; synthesis

AM-01316 NELSON, WALTER L., New York State Col. Agr., Cornell Univ., Ithaca, N.Y.
chemical structure: lipases..lipoprotein lipase: lipoproteins: mammary gland

AM-01397 MOLDAVE, KIVIE, Sch. Med., Tufts Univ., Boston, Mass.
amino acid; binding; hydroxylamine; proteins; radiolabeled carbon: ribonucleic acid: ribonucleoproteins

AM-01469 FRANZ, JOHN M., Univ. Missouri Med. Cr., Columbia, Mo.
amidases..tryptophan pyrrolase; formylkynurenine; adrenal glands; glucocorticoids; cortisone hydrocortisone; amino acid

AM-01503 MEILMAN, EDWARD, Long Island Jewish Hosp., New Hyde Park, N.Y.
collagen; esters; hydrazinophthalazine; cell--free systems; hydroxyproline; glutamates

AM-01549 METZLER, DAVID E., Grad. Col., Iowa State Univ., Ames, Iowa
dehydratases..threonine dehydratase: enzymes inhibitors: pyridoxal: pyridine: pyridine aldehydes: amino acids: synthesis: pyridoxal analogs: decarboxylation: thiamine: spectrometry

AM-01635 SIEKEVITZ, PHILIP, Rockefeller Inst., New York, N.Y.
ribonucleoproteins; cell components..microsomes; proteins; pancreas; insulin; molecular structure; conformations (chemistry); enzymes; cell components..ribosomes; cell components..cell membrane

AM-01669 GREENBERG, G. ROBERT, Univ. Michigan, Ann Arbor, Mich.
bacteria..Escherichia coli: cell components..ribosomes: phosphotransferases..hydroxymethyl ATP; deCMP phosphotransferases; viruses..bacteriophage T; cell-free systems; hydroxymethylases..deoxycytidylate hydroxymethylase: thymidine monophosphate

AM-01678 FROMM, HERBERT J., Sch. Med., Univ. North Dakota, Grand Forks, N.D.
transmethylases..thetin--homocysteine transmethylase; oxidoreductases..ribitol dehydrogenase; oxidoreductases.. lactate dehydrogenase; enzyme substrate complex; phosphotransferases..ATP : D--hexose 6--phosphotransferase

AM-01680 SIZER, IRWIN W., Massachusetts Inst. Tech., Cambridge, Mass.
pyridoxal phosphate; transaminases; oxidoreductases.. glutamic dehydrogenase; peroxidases; oxidoreductases.. amino acid oxidases; oxidoreductases..hydroxy acid oxidases; coenzyme; oxidoreductases..glycolate oxidase; amino acid; vitamin

AM-01855 GRISOLIA, SANTIAGO, Sch. Med., Univ. Kansas, Kansas City, Kansas
acetyl ornithine: acetyl phosphate: N-acyl amino acids: adenosine triphosphate; amino acid; bacteria; N-carbamyl amino acids; citrulline: fractionation; molecular structure phosphatases..acylphosphatase: phosphotransferases. ATP:Carbamate phosphotransferase; ribonucleic acid; synthesis

AM-02024 GJESSING, ERLAND C., Col. Med., Univ. Vermont, Burlington, Vt.
amino acid; esterase; molecular structure; pancreas: proesterases

AM-02109 RABINOWITZ, JESSE C., Grad. Sch., Univ. California, Berkeley, Cal.
bacteria..Clostridium: bacteria..Clostridium cylindrosporum: 1-carbon compounds; chemical structure; coenzyme; enzymes; fermentation; ferredoxin; folic acid; pteridines; pterorerin: purine: tetrahydrofolic acid

AM-02448 GUBLER, CLARK J., Grad. Sch., Brigham Young Univ., Provo, Utah
chemical structure; coenzymes; decarboxylation; dietary deficiency; enzymes inhibitors; polyneuritis; thiamine; transferases..transketolase

AM-02610 McGEACHIN, ROBERT L., Sch. Med., Univ. Louisville, Louisville, Ky.
blood..serum; calcium; carbohydrases..amylases; epinephrine; fungi..Aspergillus; glucagon; immunology..antibodies; liver; microorganisms; saliva; urine

AM-02903 DAVIDSON, EUGENE A., Sch. Med., Duke Univ., Durham, N.C.
mucopolysaccharides; sulfates; connective tissue; hormones; proteins; D--galactosamine; L--iduronic acid

AM-03172 SEIFTER, SAM, Albert Einstein Col. Med., New York, N.Y.
collagen; polar molecules; peptides; proteases..collagenase; zinc; immunology..antigens; immunological tests; immunity..autoimmunity; species; bacteria.. Clostridium histolyticum

AM-03200 DAWSON, CHARLES R., Columbia Univ., N.Y.C.
oxidoreductases..ascorbate oxidase: chemical structure: amino acid sequence: copper: metal chelates: chromophores: sulfhydryls: phenol oxidases..tyrosinases

AM-03412 VON HIPPEL, PETER H., Sch. Med., Dartmouth Col., Hanover, N.H.
proteins; molecular structure; collagen; proteases; reaction sites; nucleic acids; tritium; nucleases.. ribonuclease; gelatin; molecules..macromolecules; conformation (chemistry); solvents; deoxyribonucleic acid; nucleoproteins

AM-03416 HISKEY, RICHARD G., Univ. North Carolina, Chapel Hill, N.C.
conformations. chemistry: cystine: electron donors: molecular structure: peptides: synthesis

AM-03675 McNUTT, WALTER S., Sch. Med., Tufts Univ., Boston, Mass
chemical bonds..bond cleavage; cyclic compounds; enzymes: fungi..Eremothecium ashbyii: fungi.. Neurospora; pteridines; purine; radiolabeled carbon; riboflavin

AM-04004 DAVIS, ROBERT P., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
acid-base equilibrium; dietary deficiency; glycolysis; kidney; kidney..renal medulla; NAD; NADP; pentose pathway; phosphotransferases..ATP : pyruvate phosphotransferase; potassium; pyridoxine

AM-04060 McCORD, TOMMY J., Grad. Sch., Abilene Christian Col., Abilene, Tex.
folic acid antagonists; synthesis; growth inhibitors; folinic acid: folic acid

AM-04127 JONES, JOHN K.N., Gordon Hall, Queen's Univ., Kingston, Ontario, Canada
carbohydrates; proteins; glycoproteins; chemical bonds; sugars; hydrazines; reduction; amino sugars; N--acetylneuraminic acid analogs

AM-04287 LUKENS, LEWIS N., Sch. Med., Yale Univ., New Haven, Conn.
collagen; hydroxyproline; glutamates; proline; hydroxylation reactions

AM-04288 SCHMIR, GASTON L., Sch. Med., Yale Univ., New Haven, Conn.
acylation; alcohols; amine; reaction rates (chemistry); thiazolines

AM-04600 KURAHASHI, KIYOSHI, Grad. Sch., Osaka Univ., Osaka, Japan
galactose; genetics; bacteria..Escherichia coli; phosphotransferases..ATP : D-galactose 1-phosphotransferase; phosphotransferases..UTP : α-D-galactose-1-phosphate uridylytransferase; radiolabeled carbon; amino acid; cytolysis; growth, microorganisms; cell components.. cell wall; polysaccharides; uridine diphosphate glucose; isomerases..uridine diphosphogalactose-4-epimerase

AM-04632 GIBSON, FRANK W.E., Sch. Med., Univ. Melbourne, Victoria, Australia
bacteria..Aerobacter aerogenes: genetic strains: tryptophan: shikimic acid-5-phosphate: o-aminobenzoic acid: naphthoquinones: aromatic compounds

AM-04642 DESNUELLE, PIERRE A.E., Faculty Sci., Univ. Aix-Marseille, Marseille, France
nucleic acids; pancreas; enzymes; lipases..pancreatic lipase; diet; chemical structure; statistics; transfer ribonucleic acid; fractionation

AM-04769 COON, MINOR J., Sch. Med., Univ. Michigan, Ann Arbor, Michigan
biotin: amino acid: bacteria..Pseudomonas: carboxylases.. β-methylcrotonyl coenzyme A carboxylase; molecular structure

AM-04873 BARANY, MICHAEL, Inst. Muscle Dis., New York, N.Y.
actin; myosin; adenosine triphosphate; calcium; ultrasonics; muscle contraction; proteolysis; actomyosin

AM-05196 RIEDER, SIDNEY V., Massachusetts Gen. Hosp., Boston, Mass.
amino sugars; fungi..Streptomyces griseus; oxidation--reduction; epimerization; enzymes; D--glucose; glucosamine

AM-05226 MOROWITZ, HAROLD J., Grad. Sch., Yale Univ., New Haven, Conn.
bacteria..Mycoplasma; growth, microorganisms; deoxyribonucleic acid; proteins; cell components..cell membrane; molecular structure; molecules..macromolecules; cell culture; genetics..genome

AM-05299 LAWSON, WILLIAM B., Health Res., Inc., Albany, N.Y.
enzymes inhibitors; proteases..chymotrypsin; proteases.. trypsin; reaction sites; serine

AM-05362 HAYANO, MIKA, Worcester Fdn. Exptl. Biol., Shrewsbury, Mass.
amino acid; androgens; carbohydrases..β-glucuronidase; kidney

AM-05363 SPIRO, ROBERT G., Sch. Med., Harvard Univ., Boston, Mass.
amino acid; cell-free systems; chemical structure; endocrine glands; enzymes; glycoproteins; radiolabeled carbon; sugar; tissue

(cont'd)

BIOCHEMISTRY (CONTD)

AM-05427 **KIRSHNER, NORMAN,** Duke Univ. Med. Cr., Durham, N.C.
adenosine triphosphate; adrenal medulla; Embden-Meyerhof pathway; epinephrine; ganglion, nervous system.. paraganglia; norepinephrine; oxidative phosphorylation

AM-05530 **RABINOWITZ, JESSE C.,** Univ. California, Berkeley, Cal.
pyruvate; bacteria..Clostridium acidi--urici; radiolabeled carbon; carbon dioxide; carboxyl groups; coenzyme A; oxidoreductases..pyruvate oxidase; formates; bacteria.. Escherichia coli

AM-05679 **BRESLOW, RONALD,** Grad. Sch., Columbia Univ., N.Y.C.
N-carboxybiotin; coenzyme; dehydrogenases..alcohol dehydrogenase; isomers; methyl-malonate; oxidative-phosphorylation; succinic acid; tocopherol; vitamin B12; vitamin K

AM-05740 **HOTTA, KEN,** Med. Sch., Nagoya City Univ., Nagoya, Japan
conformation chemistry; imidazoles; ion..cation; molecular structure; muscle..myofibrils; muscular dystrophy; myosin; phosphatases..adenosine triphosphatase; reaction sites; zinc

AM-05741 **CHAYKIN, STERLING,** Col. Agr., Univ. California, Davis, Cal.
cell components..mitochondria; NADH2; nicotinamide; oxidative phosphorylation; pyridine nucleotides

AM-05761 **FONG, CONRAD T.O.,** Grad. Sch., Oregon State Univ., Corvallis, Ore.
chemoreceptors; insulin; membrane permeability and transport; vasopressin; chemical structure--biological activity; glucagon

AM-05840 **BUBLITZ, CLARK,** Sch. Med., Univ. Colorado, Denver, Colo.
cell-free systems; coenzyme; collagen; enzymes; hydroxyproline; proline; tissue

AM-05851 **SHAPIRA, RAYMOND,** Sch. Basic Hlth. Sci., Emory Univ., Atlanta, Ga.
chemical bonds; gamma rays; heat; molecular structure; nucleases..ribonucleases; proteins; radiation effects; ultraviolet rays

AM-05852 **FASMAN, GERALD D.,** Brandeis Univ., Waltham, Mass.
amino acid; chemical structure--biological activity; conformations (chemistry); deuterium; hydrogen bond; hydrophobic bonds; immunology..antigens; polypeptides; polymers; proteins; synthesis; viscosity

AM-05867 **LOGAN, MILAN A.,** Col. Med., Univ. Cincinnati, Cincinnati, Ohio
collagen; 3-hydroxyproline; age; metabolic diseases; molecular structure

AM-05868 **RICKENBERG, HOWARD V.,** Col. Arts, Sci., Indiana Univ., Bloomington, Ind.
enzymes; metabolites; microorganisms; bacteria.. Escherichia coli; carbohydrases..b-galactosidase; permeases..galactoside permease; membrane permeability; cell; phosphatases..adenosine triphosphatase; glutamates

AM-05916 **BANDURSKI, ROBERT S.,** Sch. Natural Sci., Michigan State Univ., East Lansing, Mich.
nucleic acids; fungi..yeasts; plants; transmormation; cell components..cell wall; ribonucleic acid; viruses..tobacco mosaic virus; enzymes; biosynthesis; metabolism

AM-06063 **LUKTON, AARON,** Brooklyn Col., Brooklyn, N.Y.
carnosine; anserine; imidazoles; chemical structure--biological activity; chelation

AM-06073 **SIE, HSIEN-GIEH,** Sch. Med., Tufts Univ., Boston, Mass.
3-heptulose phosphates; enzymes; glucose-6-phosphates; fructose-6-phosphate; arabinose; reaction rates (chemistry); metabolites; radiolabeled carbon; hexose phosphates; enzymes substrate

AM-06287 **KAY, CYRIL M.,** Sch. Med., Univ. Alberta, Edmonton, Canada
actin; carbohydrases..lysozyme; fetuin; heart; myosin; nucleases..ribonucleases; phosphatases..adenosine triphosphatase; proteases..chymotrypsin; proteases..trypsin; solutions association; subtilisin; tropomyosin

AM-06454 **URATA, GUMPEI,** Inst. Public Hlth., Tokyo, Japan
prophyria; carbon--carbon ligases..5--aminolevulinate synthetase; carbon--carbon ligases..aminoacetone synthetase; amino acetone; cell components..mitochondria; radiolabeled carbon; glycine

AM-06587 **SMITH, EUGENE J.,** Sch. Med., Dent., Georgetown Univ., Washington, D.C.
amination (chemistry); bacteria..Lactobacillus bifundus; carbohydrases..β-galactosidase; cell-free systems; 4-O-β-D-galactoside-N-acetyl-D-glucosamine; glycoproteins; lactose; lactose-1-phosphate; lactulose; phosphatases; polysaccharides

AM-06716 **DUBNOFF, JACOB W.,** Los Angeles County Hosp., Los Angeles, Cal.
age; blood disorders; chemical structure--biological activity; glutathione; proteins; sulfhyfryls; vitamin B12

AM-06717 **WHITE, FRED G.,** Sch. Chem., Brigham Young Univ., Provo, Utah
bacteria..Clostridium; bacteria..Escherichia coli; bacteria..Pseudomonas; decarboxylases..oxalate decarboxylase; decarboxylation; glyoxalate; phosphoketolase; pyruvate; thiamine pyrophosphate

AM-06752 **MORITA, RICHARD Y.,** Sch. Sci., Oregon State Univ., Corvallis, Ore.
temperature; molecular volume; enzymes; hydrostatic pressure

AM-06781 **KIRSCHENBAUM, DONALD M.,** Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
proteases..papain; photochemistry; amino acid sequence; chemical structure--biological activity; molecular structure; oxidation

AM-06784 **LUDEWIG, STEPHAN,** Sch. Med., Univ. Virginia, Charlottesville, Va.
hemosiderin; chemical structure; fractionation; N-acetylneuraminic acid; carbohydrates; hexosamines; hemosiderosis

AM-06828 **WAINIO, W.W.,** Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
oxidases..cytochrome oxidases; lysophospholipids; heart..myocardium; phosphatidyl ethanolamine; binding; copper; heme; carbon monoxide; cyanide

AM-06848 **LOSADA, MANUEL,** Centro de Investigaciones Biologicas, Madrid, Spain
bacteria; phosphorylation; oxidation--reduction; anaerobiosis; nitrates; carbon dioxide; electron transport; enzymes; radiolabeled phosphorus; radiolabeled carbon; Kornberg--Krebs glyoxylate cycle; citramalate; cell components..chloroplasts; carbon--carbon ligases..pyruvate carboxylase

AM-06851 **ROSETT, THEODORE,** Duke Univ. Med. Cr., Durham, N.C.
skin; oxidative phosphorylation; glucose; hexose monophosphate pathway; respiratory enzymes; epinephrine; insulin; growth hormones; antimetabolites; Krebs cycle

AM-06852 **MARTIN, DONALD B.,** Massachusetts Gen. Hosp., Boston, Mass.
adipose tissue; carboxylases..acetyl-CoA carboxylase; citrate; endocrine gland disorders; fatty acids; hormones; radiolabeled carbon; sedimentation constants

AM-06858 **REDFEARN, ERIC R.,** Sch. Sci., Univ. Leicester, Leicester, England
ubiquinone; electron transport; oxidative phosphorylation; cell components..mitochondria; plastoquinone; photosynthesis; bacteria..photosynthetic bacteria; cell components..chloroplasts

AM-06859 **TOUSTER, OSCAR,** Sch. Med., Vanderbilt Univ., Nashville, Tenn.
liver cells; cell components..cell membrane; cell components..endoplasmic reticulum; n-acetylneuraminic acid; polymers; cell components..mitochondria; cell components ..microsomes; cell components..nuclear membrane; cell components..ribosomes; fractionation

AM-06870 **HAAKE, PAUL,** Sch. Letters, Sci., Univ. California, Los Angeles, Cal.
enzymes; biotin; carboxylation; decarboxylation; coenzyme A..malonyl-coenzyme A; fatty acids; peptides; catalysts; proteins; hydrolysis; thiazoles; acetates; molecular rearrangement

AM-06871 **COLEMAN, DOUGLAS L.,** Roscoe B. Jackson Mem. Lab., Bar Harbor, Maine
acetoacetate; coenzyme A; creatinine; genetics; liver; muscle; muscular dystrophy; pyruvate; radiolabeled carbon

AM-06889 **EBNER, KURT E.,** Oklahoma State Univ., Stillwater, Okla.
aminotransferases..tyrosine transaminase; enzymes; hormones; hydrocortisone; lactation; lactose; liver cells; mammary gland; radiolabeled carbon

AM-06942 **KREBS, EDWIN G.,** Sch. Med., Univ. Washington, Seattle, Wash.
dehydrogenases..glyceraldehyde-3-phosphate dehydrogenases; fungi..yeasts; chemical structure--biological activity; molecular weight; amino acid sequence; isozymes; immunology; phosphorylases..glycogen phosphorylase

AM-06994 **DAWSON, CHARLES R.,** Columbia Univ., N.Y.C.
phenol oxidases..tyrosinase; melanin; oxidation; catechol; quinones; phenols; radiolabeled carbon

AM-07124 **SIMPSON, MELVIN V.,** Dartmouth Med. Sch., Hanover, N.H.
cytochrome C; cell--free systems; bacteria; fungi..yeasts

AM-07140 **HIMES, RICHARD H.,** Grad. Sch., Univ. Kansas, Lawrence, Kansas
carbon-nitrogen ligases..formyltetrahydrofolate ligase (ADP); bacteria..Clostridium cylindrosporum; molecular structure; proteins; sulfhydryls inhibitors; peptides; binding; proteases; formates; adenosine triphosphate; radiolabeled

AM-07141 **NORDLIE, ROBERT C.,** Sch. Med., Univ. North Dakota, Grand Forks, N.D.
pyrophosphates; cell components..mitochondria; liver; phosphotransferases; phosphorylases..pyrophosphorylases; oxidative phosphorylation; adenosine triphosphate; fractionation; enzyme inhibitors; cell components.. microsomes; glucose--6--phosphates

AM-07165 **KLINGENBERG, MARTIN,** Sch. Med., Univ. Marburg, West Germany
cell components..mitochondria; NAD; NADP; hydrogen transport; oxidoreductases; phosphates; pyridine nucleotides; adenine; guanines; radiolabeled carbon; tritium; radiolabeled phosphorus; ion exchange and transport; membrane permeability and transport

AM-07175 LEFEVRE, PAUL G., Sch. Med., Univ. Louisville, Louisville, Ky.
cell components..cell membrane; membrane permeability and transport; monosaccharides; chemical structure--biological activity; chemical bonds; reaction sites; radiolabeled carbon

AM-07310 IMSANDE, JOHN D., Col. Arts, Sci., Western Reserve Univ., Cleveland, Ohio
cell; enzymes; enzymes substrate complex

AM-07319 WU, CHUNG, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
liver; cell components..microsomes; acid--ammonia ligases, L--glutamate : ammonia ligase (ADP); binding; metal; ions; enzyme inhibitors; sulfhydryls inhibitors; arsenites

AM-07393 HOCH, FREDERIC L., Sch. Med., Peter Bent Brigham Hosp., Boston, Mass.
thyroid hormones; nitrophenol; liver; cell components.. mitochondria; Adenosine triphosphate; oxidative phosphorylation; toxicology; therapy; salicylates

AM-07535 HOGNESS, DAVID S., Sch. Med., Stanford Univ., Palo Alto, Cal.
proteins; genetics..genes; deoxyribonucleic acid; fractionation; cell components..ribosomes; molecular structure; messenger ribonucleic acid; viruses.. bacteriophage lambda

AM-07588 SUZUKI, SAKARU, Nagoya Univ., Nagoya, Japan
polysaccharides; sugar nucleotides; nucleotides; oviduct; reproductive system; reaction sites; deoxyribonucleic acid; bacteria..Escherichia coli

AM-07599 NORTON, SCOTTY J., North Texas State Univ., Denton, Tex.
amino acid-RNA ligases..proline : sRNA ligase (AMP); cell-free systems; hydroxyproline; proline

AM-07697 FRANZBLAU, CARL, Sch. Med., Boston Univ., Boston, Mass.
amino acid sequence; carbohydrates; chemical bonds.. bond cleavage; dicarboxylic acids; elastin; fractionation; molecular structure; proteases; solutions

AM-07719 SABLE, HENRY Z., Sch. Med., Western Reserve Univ., Cleveland, Ohio
cyclopentane polyols; dehydrogenases; epoxidation; microorganisms; molecular structure; stereochemistry; synthesis; teichoic acids

AM-07777 FEINBERG, ROBERT H., Sch. Liberal Arts, Univ. Tennessee, Knoxville, Tenn.
cell components..microsomes; electron transport; functional groups; hydrogen transport; liver; molecular rearrangement; oxidases..gulonolactone oxidase

AM-07787 TRITSCH, GEORGE L., Roswell Park Mem. Inst., Buffalo, N.Y.
amino acid sequence; blood proteins..serum proteins; cell culture; chemical structure--biological activity; culture media; growth factors; growth inhibitors; peptides

AM-07824 KUBY, STEPHEN A., Col. Med., Univ. Utah, Salt Lake City, Utah
phosphotransferases..ATP:AMP phosphotransferase; phosphotransferases..ATP:nucleoside diphosphate phosphotransferase; phosphotransferases..ATP:creatine phosphotransferase; amino acid sequence; chemical structure; functional groups

AM-07872 EDMONDS, MARY P., Montefiore Hosp., Pittsburgh, Pa.
binding; cellulose; chemical structure--biological activity; homopolynucleotides; phosphotransferases..RNA nucleotidyltransferase; radiolabeled phosphorus; thymus

AM-07873 KREBS, EDWIN G., Sch. Med., Univ. Washington, Seattle, Wash.
glycogen; phosphorylases..glycogen phosphorylase; phosphotransferases..ATP: phosphorylase phosphotransferase; glycosyltransferases..UDP glucose:α-1,4-glucan α-4-glycosyltransferase; phosphorylation; molecular rearrangement; chemical structure

AM-07944 McGEACHIN, ROBERT L., Sch. Med., Univ. Louisville, Louisville, Ky.
calcium; carbohydrases..amylases; metalloenzymes; binding; amino acid; chemical structure--biological activity

AM-07954 GASTON, LAMONT W., Sch. Med., Univ. Washington, Seattle, Wash.
isomerases..diol dehydratase; bacteria..Clostridium; microbial culture; cell--free systems; ethylene glycol; enzymes substrate; hydrogen transport; glutamates; iron; D--glucitol; erythropoiesis

AM-07957 KAISER, EMIL THOMAS, Sch. Physical Sci., Univ. Chicago, Chicago, Illinois
proteases..carboxypeptidase

AM-07986 DUKE, FREDERICK R., Texas AM Univ., College Station, Tex.
oxidases..amino acid oxidases; oxygen

AM-08016 KIKUCHI, GORO, Sch. Med., Tohcku Univ., Kitayobancho, Sendai, Japan
porphyrins; bacteria..photosynthetic bacteria; bacteria.. Rhodopseudonomas spheroides; photochemistry; oxygen; Krebs cycle; carboxylic acids; acetates; succinic acid; malic acid; delta--aminolevulinic acid; enzymes; chromatophores; chlorophyll; cell components..mitochondria; ligases; deoxyribonucleic acid

AM-08073 McGUIRE, JOSEPH S., Jr., Sch. Med., Yale Univ., New Haven, Conn.
cell components..mitochondria; oxidation; hydrogen transport; oxidases..NAD(P) transhydrogenase; oxidases.. NADPH2 diaphorase; NAD; NADPH2; epinephrine; serotonin; estradiol; enzymes inhibitors; chemical structure--biological activity; bishydroxycoumarin

AM-08099 LIONETTI, FABIAN J., Sch. Med., Boston Univ., Boston, Mass.
blood cells..erythrocytes; chemical structure--biological activity; enzymes; nucleosides; pentose phosphates

AM-08102 LEVY, JEROME F., Sch. Med., Washington Univ., St. Louis, Mo.
cell components..mitochondria; liver; liver diseases; bile ducts obstruction; gallstones; liver neoplasms; oxidative phosphorylation; electron transport; free radicals

AM-03124 SCRIMGEOUR, K. GRAY, Scripps Clinic, Res. Fdn., La Jolla, Cal.
folic acid; folic acid coenzymes; enzymes; molecular structure; electron donors; isomers; methionine; synthesis; one--carbon compounds; vitamin B12; pyridine nucleotides; S--adenosyl methionine; radiolabeled carbon; ferredoxin

AM-08126 HUENNEKENS, FRANK M., Scripps Clinic, Res. Fdn., La Jolla, Cal.
electron transport; cell components..mitochondria; oxidoreductases..NAD(P)H2:UQ oxidoreductase; oxidoreductases..succinic:UQ oxidoreductase; oxidoreductases.. UQH2 cytochrome C oxidoreductase; enzymes inhibitors; chemical structure; chemical structure--biological activity

AM-08130 HASS, LOUIS F., Sch. Med., State Univ. New York, Buffalo, N.Y.
laboratory facilities; aldolases; muscle; phosphotransferases..ATP : pyruvate phototransferase; chemical structure--biological activity

AM-08232 CORDES, EUGENE H., Col. Arts, Sci., Indiana Univ., Bloomington, Ind.
enzymes models; enzymes substrate complex; catalysts; molecular structure; iodide; acetates; biomathematics; electron donors

AM-08274 YIELDING, K. LEMONE, Univ. Alabama Med. Cr., Birmingham, Ala.
enzymes; chemical structure--biological activity; chemical bonds; laboratory facilities; dehydrogenases..glutamic dehydrogenase; dehydrogenases..malate dehydrogenase; phosphotransferases..ATP: D-fructose-6-phosphate 1-phosphotransferase; peptides; enzymes inhibitors; steroid hormones

AM-08338 CIVEN, MORTON, Veterans Admin. Hosp., Long Beach, Cal.
aminotransferases..tyrosine-alpha-ketoglutarate transaminase; enzymes inhibitors; hydrocortisone; liver; radiolabeled carbon

AM-08377 PERKOFF, GERALD T., Sch. Med., Washington Univ., St. Louis, Mo.
myoglobin; neuromuscular disorders; chemical structure--biological activity; fetus; children; adults; amino acid; radiolabeled carbon; radiolabeled iron; molecular structure; muscular dystrophy; myoglobinuria

AM-08388 VOLK, WESLEY A., Sch. Med., Univ. Virginia, Charlottesville, Va.
cell components..cell wall; sugar nucleotides; 3--amino sugars; hexoses; enzymes; bacteria.. Xanthomonas; antibiotics

AM-08393 LEWIN, LAWRENCE M., Sch. Med., Dent., Georgetown Univ., Washington, D.C.
thiamine; pyrimidine; thiazoles; microorganisms; mutations; bioassay

AM-08398 HUENNEKENS, FRANK M., Scripps Clinic and Res. Fdn., La Jolla, Cal.
vitamin B12 coenzymes; metal complexes; cobalt; functional groups; methionine; isomerases..glutamate beta--methyl aspartate somerase; isomerases..methylmalonyl isomerase; reductases; oxidation--reduction

AM-08414 RILEY, GENE A., Sch. Med., Western Reserve Univ., Cleveland, Ohio
adenosine 3',5'-monophosphate; phosphorylases; reaction sites; hormones; adrenal glands; liver; adenosine triphosphate; tritium; radiolabeled phosphorus

AM-08420 ROUSH, ALLAN H., Illinois Inst. Technology, Chicago, Ill.
fungi..yeasts; fungi..Candida; fungi..Saccharomyces cerevisiae; purine; nitrogen; allantoin; urea; glyoxylate; enzymes

AM-08450 SNYDER, ROBERT, Jefferson Med. Col., Philadelphia, Pa.
oxidoreductases..alcohol dehydrogenase; isomerases.. triose phosphate isomerase; enzymes inhibitors; folic acid; aminopterin; chemical structure--biological activity; isomers; functional groups

AM-08461 ALLEN, GEORGE S.H., Albany Med. Col., Albany, N.Y.
carbon dioxide fixation; decarboxylation; dicarboxylic acids; bacteria..Micrococcus; brain; ketoacid lyases.. malate synthase

AM-08462 WELLNER, DANIEL, Sch. Med., Tufts Univ., Boston, Mass.
oxidoreductases..D-amino acid oxidase; oxidoreductases.. L-amino acid oxidase; molecular structure; flavoprotein enzymes

(contd)

BIOCHEMISTRY (CONTD)

AM-08463 FLUHARTY, ARVAN L., Univ. Southern California, Los Angeles, Cal.
dithiols; functional groups; binding; metal; enzymes; lipoic acid; polymers; substitution reactions (chemistry); starch; proteins

AM-08627 HOGENKAMP, H.P.C., Col. Med., Univ. Iowa, Iowa City, Iowa
cobamides; vitamin B12; vitamin B12 coenzymes; photosensitivity; coenzyme analogs; synthesis; chemical structure

AM-08638 MELVILLE, DONALD B., Col. Med., Univ. Vermont, Burlington, Vt.
ergothioneine; fungi..Neurospora crassa; enzymes; radiolabeled carbon; radiolabeled sulfur

AM-08728 FRITZ, PAUL J., Sch. Phar., Auburn Univ., Auburn, Alabama
oxidoreductases..lactic dehydrogenase; enzymes..isoenzymes; metabolites; feedback control; chemical structure--biological activity; oxalacetate; malic acid; aspartic acid

AM-08774 JOHNSON, EMMETT J., Univ. Mississippi Med. Cr., Jackson, Miss.
bacteria..Thiobacillus thioparus; carbon dioxide fixation; microbial culture; cell--free systems; phosphorylation; oxidation; enzymes; chemical structure--biological activity

AM-08808 NARROD, STUART A., Woman's Med. Col., Philadelphia, Pa.
NAD(H2); NADP(H2); coenzymes; bacteria; environment

AM-08812 ANDERSON, BRUCE M., Grad. Sch., Univ. Tennessee, Knoxville, Tenn.
1,4--dihydropyridine; synthesis; NADH2; oxidation--reduction; hydration reactions; oxidative phosphorylation; membrane permeability and transport; electron transport; non--polar molecules; nicotinamide; pyridine nucleotides; cell components..mitochondria

AM-08823 PULLMAN, MAYNARD E., Public Health Res. Inst., New York, N.Y.
bioenergetics; oxidative phosphorylation; cell components..mitochondria; proteins; phospholipids; fatty acids; phosphoproteins; hormones; thyroxine

AM-08844 KELLER, PATRICIA J., Sch. Dent., Univ. Washington, Seattle, Wash.
pancreatic juice; enzymes; phylogeny; primates

AM-08866 VESTLING, CARL S., Col. Med., State Univ. Iowa City, Iowa
laboratory facilities; proteins; chemical structure--biological activity; oxidoreductases..lactate dehydrogenase; oxidoreductases..malate dehydrogenase; aminotransferases..aspartate transaminase; enzymes..isoenzymes; monosaccharides; anhydrohexitols; isomers; aldolases; synthesis; functional groups; furans; chemical bonds; molecular structure; histidine; tryptophan; stereochemistry; electrophoresis; electron charge distribution; lipoic acid; toxicology; thiamine; hydroxylation reactions; vitamin B12; nucleases..ribonuclease; enzyme substrate; reaction sites; fungi..Aspergillus oryzae; proteases; steroid hormones; testosterone; chemical bonds; sex difference; oxidoreductases..urate oxidase; blood coagulation..prothrombin; blood coagulation..fibrinogen; carbohydrates; proteins denaturation; solutions..aqueous solutions; solvents; solutes

AM-08910 DECKER, LUCILE E., Veterans Administration Hosp., Hines, Ill.
aminotransferases..aspartate transaminase; enzymes..isoenzymes; enzyme substrate; coenzymes; cell components; chemical structure--biological activity

AM-08946 SOMERVILLE, RONALD L., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
tryptophan; bacteria..Escherichia coli K12; genetics..alleles; genetics..genes; genetic mapping; mutation; dehydratases..tryptophan synthetase; o--aminobenzoic acid

AM-08990 MARQUIS, ROBERT E., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
tissue respiration; α--aminoisobutyric acid; ion exchange and transport; bacteria..Bacillus megaterium; antimetabolites; cell components..cell membrane; electron transport; reaction sites; oxidative phosphorylation; radiolabeled phosphorus; enzymes; amino acids

AM-09056 MONDER, CARL, Hosp. for Joint Diseases, New York, N.Y.
glutamine; carnosine; acid--ammonia ligases..L--glutamate:ammonia ligase (ADP); magnesium; manganese; adenosine triphosphate; glutathione; phenylacetylglutamine

AM-09059 COOPERSTEIN, SHERWIN J., Univ. Connecticut, Storrs, Conn.
diabetes..alloxan diabetes; body fluids; radiolabeled carbon; membrane permeability; cell components..cell membrane; islands of Langerhans..beta cells; alloxan

AM-09070 COLEMAN, JOSEPH E., Sch. Med., Yale Univ., New Haven, Conn.
metalloenzymes; phosphomonoesterases..alkaline phosphatases; apoenzymes; proteins; zinc; bacteria..Escherichia coli

AM-09083 SLOANE, NATHAN H., Sch. Basic Med. Sci., Univ. Tennessee, Memphis, Tenn.
p--aminobenzoic acid; radiolabeled carbon; chemical structure; p--aminobenzyl alcohol; enzymes

AM-09116 LANE, M. DANIEL, New York Univ. Med. Cr., New York, N.Y.
biotin; carboxylases..propionyl apocarboxylase; carboxylases..propionyl carboxylase; chemical bonds; proteins

AM-09117 LANE, M. DANIEL, New York Univ. Med. Cr., New York, N.Y.
carbon--carbon ligases..phosphoenolpyruvate carboxylase; enzymes substrate; phosphoenolpyruvate; amino acid sequence; fractionation; molecular structure; molecular weight

AM-09131 BUCOVAZ, EDSEL T., Sch. Basic Med. Sci., Univ. Tennessee, Memphis, Tenn.
proteins; cysteine; cysteine analogs; amino acid RNA--ligases; soluble ribonucleic acid

AM-09134 FRIEDMANN, HERBERT C., Univ. Chicago, Chicago, Ill.
vitamin B12; benzimidazoles; glycosyltransferases; enzymes; bacteria..Propionibacterium

AM-09135 WHITNEY, JOHN E., Univ. Arkansas Med. Cr., Little Rock, Ark.
pancreas hormones; radiolabeled carbon; peptides; chemical structure--biological activity; island of Langerhans; perfusion

AM-09160 BURNHAM, BRUCE F., Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.
porphyrins; carbon--carbon ligases..5--aminolevulate synthetase; iron; hemins; antibiotics..chloramphenicol; bacteria..Chromatium

AM-09161 ANGLIN, J.H., Jr., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
radiolabeled carbon; radiation effects; skin; urocanic acid; photochemistry; amidohydrolases..histidase; ultraviolet rays; chemical structure

AM-09171 BRUICE, THOMAS C., Col. Letters, Sci., Univ. California, Santa Barbara, Cal.
nitrophenyl acetate; electron donors; catalysts; esters; chemical bonds; hydroxyl groups; carbonyl compounds; lactones; proteases..chymotrypsin; hydrolysis

AM-09194 STRUMEYER, DAVID H., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
carbohydrases..amylase; enzyme inhibitors..amylase inhibitors; chemical structure--biological activity; wheat; sorghum

AM-09221 POCKER, YESHAYAU, Col. Arts, Sci., Univ. Washington, Seattle, Wash.
hydration reactions; dehydratases..carbonic anhydrase; carbon dioxide; acetaldehyde; carbonyl compounds; zinc; cobalt; copper; deuterium; tritium; stable isotope labeled oxygen

AM-09226 SCHLESINGER, SONDRA, Sch. Med., Washington Univ., St. Louis, Mo.
proteins; histidine; methylhistidines; soluble ribonucleic acid; amino acyl soluble ribonucleic acid; amino acid RNA--ligases; bacteria..Escherichia coli

AM-09250 HULTQUIST, DONALD E., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
imidazoles; molecular rearrangement; peptides; functional groups; chemical structure--biological activity; insulin; phosphorylation; binding; cell components..cell membrane; zinc

AM-09257 GANDER, JOHN E., Univ. Minnesota, St. Paul, Minn.
oligosaccharides; galactose; fungi..Penicillium charlesii; radiolabeled carbon; nucleotides; sugar phosphates

AM-09273 SILVERSTEIN, EMANUEL, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
oxidoreductases..glucose--6--phosphate dehydrogenase; oxidoreductases..malate dehydrogenase; oxidoreductases..isocitrate dehydrogenase; fungi..yeasts; blood cells..erythrocytes; porphyrins; metalloporphyrins; enzyme inhibitors; Krebs cycle inhibitors; bacteria..Diplococcus pneumoniae; bacteria..Bacillus subtilis; deoxyribonucleic acid; transformation; deuterium; stable isotope labeled nitrogen

AM-09276 SHAFER, JULES A., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
hydrolases; proteases..chymotrypsin; enzyme substrate analogs; amides; functional groups; hydroxyl groups; carboxyl groups; imidazoles; serine

AM-09298 HERMAN, ROBERT K., Lawrence Col., Appleton, Wis.
pyrimidines; enzymes; orotic acid; genetics..genes; genetics..operon; bacteria..Escherichia coli; mutation

AM-09327 MOWER, HOWARD F., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii
ferredoxin; chelating agents; iron; sulfides; amino acid sequence; functional groups; electron transport; reduction; nitrites; nitrates; nitrogen fixation; crystallization; bacteria..Clostridium; anaerobes

AM-09328 MEYER, WILLIAM LAROS, Col. Med., Univ. Vermont, Burlington, Vt.
phosphotransferases..ATP; D--fructose--6--phosphate 1--phosphotransferase; glycolysis; adenosine triphosphate; blood cells..erythrocytes; protozoa..trypanosoma; fructose; synthesis

AM-09350 FURFINE, CHARLES S., Albert Einstein Col. Med., Bronx, N.Y.
glycolysis; isomerases..triose phosphate isomerase

AM-09355 REYNARD, ALAN M., Sch. Med., State Univ. New York, Buffalo, N.Y.
proteins; kidney; ion exchange and transport; ribonucleic acid; stress; acidosis; aldosterone; diuretics; adrenalectomy; radiolabeled carbon; molecular structure

AM-09356 WAGNER, CONRAD, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
tryptophan; nicotinic acid; amidohydrolases.. tryptophan pyrrolase; feedback control; diet; NAD(H2); embryology; infant animals..newborn; age; fungi.. Neurospora; bacteria..Xanthomonas

AM-09393 GREENBAUM, LOWELL M., Col. Phys., Surg., Columbia Univ., New York, N.Y.
proteases..trypsinogen; proteases..cathepsin B; proteins; bradykinin; chemical structure

AM-09396 DURHAM, NORMAN N., Grad. Sch., Oklahoma State Univ., Stillwater, Okla.
enzymes; bacteria..Flavobacterium; bacteria..Pseudomonas fluorescens; benzoic acids; glucose; cell--free systems

AM-09408 STRAUSS, NORMAN, Col. Arts, Sci., State Univ. New York, Buffalo, N.Y.
bacteria..Bacillus subtilis; genetic strains; arginine; enzyme feedback; enzymes; genetics; growth, microorganisms

AM-09434 BURNS, VICTOR W., Sch. Vet. Med., Univ. California, Davis, Cal.
cell division; bacteria..Lactobacillus; purine; pyrimidine; fungi..yeasts; ribonucleic acid; deoxyribonucleic acid

CA-00721 KOLTHOFF, IZAAK M., Sch. Chem., Univ. Minnesota, Minneapolis, Minn.
chemical bonds..bond formation; sulfhydryls; disulfides; sulfites; proteins denaturation; bovine serum albumin; hydrogen peroxides; oxidation--reduction; chemical bonds ..bond cleavage

CA-01228 SUGGS, JOSEPH E., Univ. Tennessee Med. Units., Memphis, Tenn.
aromatic compounds; carcinogenesis; mercapturic acid; carcinogens; methylcholanthrene; benzopyrenes; conjugates; enzymes; sulfur compounds; hydrocarbons; proteins

CA-01717 HUMM, DOUGLAS G., Univ. North Carolina, Chapel Hill, N.C.
melanoma; melanocytes; glycolysis; polypeptides; proteins; fatty acids; latent cancer; transplantation; carcinogenesis; hydrolysis

CA-01852 RICHERT, DAN A., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
porphyrins; hemoglobin; thyrotoxicosis; chelating agents; enzyme inhibitors; blood cells..erythrocytes; porphyria; glycine; liver; diet

CA-02228 CHARALAMPOUS, FRIXOS C., Univ. Pennsylvania, Philadelphia, Pa.
inositol; enzymes; cell components..cell wall; fungi.. yeasts; polysaccharides; cell division; cell culture; nucleic acids

CA-02239 SHEEHAN, JOHN C., Massachusetts Inst. Tech., Cambridge, Mass.
synthesis; peptides; enzymes models; amino acids; functional groups; reaction sites; cyclic hexapeptides; telomycin; cephalosporin C; molecular structure

CA-02284 HUNTER, F. EDMUND, Jr., Sch. Med., Washington Univ., St. Louis, Mo.
oxidative phosphorylation; electron transport; membrane permeability and transport; cell components..mitochondria; cell components..mitochondrial membrane; cell components..protoplastic membrane; enzymes; lipids

CA-02295 BAICH, ANNETTE, Grad. Sch., Oregon State Univ., Corvallis, Ore.
amino acid; bacteria..Acetobacter suboxydans; bacteria.. Escherichia coli; proline; nicotinic acid

CA-02772 FRASER, DEAN, Sch. Arts, Sci., Indiana Univ., Bloomington, Ind.
bacteria..Escherichia coli; cell; deoxyribonucleic acid; proteins; ribonucleic acid; viruses..bacteriophage T2

CA-02790 GINSBERG, HAROLD S., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
purine; microorganisms; auxotrophs; enzymes; vitamin; amino acid; genetics

CA-02856 MYERS, TERRELL C., Sch. Med., Univ. Illinois, Chicago, Ill.
chemical structure--biological activity; nucleoside phosphates analogs; phosphonates; synthesis

CA-02951 WINZLER, RICHARD J., Sch. Med., Univ. Illinois, Chicago, Ill.
blood proteins; glycoproteins; oligosaccharides; sugar sequence; orosomucoids; molecular structure; glycopeptides; proteases; α--glycoproteins; hemagglutination; viruses; hydrolysis; glucosamine

CA-03102 PATTERSON, ELIZABETH K., Inst. Cancer Res., Philadelphia, Pa.
proteases..aminopeptidases; proteases..dipeptidases; ascites tumors; liver

CA-03186 HELLERMAN, LESLIE, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
enzymes inhibitors; chemical structure--biological activity; antineoplastic agents; synthesis; glycolysis; tissue respiration; amino acid; dehydrogenases..glutamic dehydrogenase; dehydrogenases..succinate dehydrogenase; cancer chemotherapy; dehydrogenases..glyceraldehyde phosphate dehydrogenase; pyruvate

CA-03476 ABRAMS, RICHARD, Montefiore Hosp., Pittsburgh, Pa.
deoxyribonucleotides; enzymes; cytidine monophosphate; deoxycytidine monophosphate; ribonucleotides; vitamin B12; bacteria..Lactobacillus leichmannii; deoxyribonucleic acid; cells; ribonucleic acid

CA-03571 COHEN, PHILIP P., Sch. Med., Univ. Wisconsin, Madison, Wis.
carbamyl phosphate; deoxyribonucleic acid; enzymes; immunology..antigens; metamorphosis; reaction sites; ribonucleic acid; synthetases; thyroxine; urea

CA-03611 KAPLAN, NATHAN O., Brandeis Univ., Waltham, Mass.
coenzyme analogs; enzymes; ergothioneine; hydrolysis; NAD; nicotinamide; nicotinamide riboside; nucleic acids; pyridine nucleotides; synthesis

CA-03641 HOBERMAN, HENRY D., Albert Einstein Col. Med., Bronx, N.Y.
hydrogen; oxidoreductases; enzyme substrate; oxidation--reduction; liver; carbohydrates; pyridine nucleotides; hydrogen transport

CA-03870 LIPKIN, DAVID, Grad. Sch., Washington Univ., St. Louis, Mo.
halogenation; nucleosides; nucleotides; nucleoside-5'-triphosphate; hydrogen fluoride; metal; ion; photosensitivity; nucleoside pyrophosphates; hydrolysis; molecular rearrangement

CA-03931 WHITELEY, HELEN R., Sch. Med., Univ. Washington, Seattle, Wash.
1--carbon compounds; bacteria; anaerobes

CA-03980 DRYSDALE, GEORGE R., Sch. Med., Washington Univ., St. Louis, Mo.
pyridine nucleotides; radiolabeled; oxidation; flavoprotein enzymes

CA-04170 McNAIR-SCOTT, DWIGHT B., Sch. Med., Univ. Pennsylvania, Phila, Pa.
bacteria..Escherichia coli; carcinogenesis; carcinogens; enzymes; glucose phosphates; glutathione; growth (microorganisms); hexose monophosphate pathway; hyperplasia; neoplasms; oxidation; steroids; tissue

CA-04216 SCHELLMAN, JOHN A., Grad. Sch., Univ. Oregon, Eugene, Ore.
optical rotatory dispersion; nucleotides; binding; nucleases..ribonucleases; polypeptides; polynucleotides; hydrodynamics; molecular structure; myoglobin

CA-04333 WEYMOUTH, PATRICIA P., Col. Agr., Univ. Nebraska, Lincoln, Nebr.
radiation effects..whole body radiation; x-rays; thymus neoplasms; carcinogenesis; nucleases..ribonucleases; isozymes

CA-04344 TRAUB, ABRAHAM, Israel Inst. Biological Res., Ness-Ziona, Israel
virus diseases; antineoplastic agents; phosphotransferases..ATP : NMN adenylyltransferase; cell components.. cell nucleus; neoplasms; ribonucleoproteins; cell components..ribosomes; cell components..cell nucleolus; viruses..encephalomyocarditis virus

CA-04640 HALL, ROSS H., Health Research, Inc., Buffalo, N.Y.
nucleic acids; neoplasms; viruses..polyoma virus; chemical structure

CA-05098 FOSTER, JOHN M., Sch. Med., Boston Univ., Boston, Mass.
blood cells..leukocytes; carbohydrates; cell components.. mitochondria; glycolysis; oxidative phosphorylation; radiolabeled; spectrophotometry; tissue respiration

CA-05178 KHORANA, HAR G., Grad. Sch., Univ. Wisconsin, Madison, Wis.
synthesis; ribonolynucleotides; nucleases.. ribonucleases; nucleases..deoxyribonuclease; molecular structure; phosphodiesterases; deoxyribonucleic acid; ribonucleic acid; deoxyribooligonucleotides; nucleotide sequence; mononucleotides; deoxyribopolynucleotides; polymerization; transfer ribonucleic acid

CA-05210 MAGASANIK, BORIS, Massachusetts Inst. Tech., Cambridge, Mass.
adenine; enzymes; inosine monophosphate; phosphoribosylamine; purine; purine nucleotides

CA-05220 NICOLAUS, RODOLFO A., Sch. Organic Chem., Univ. Naples, Naples, Italy
melanin; chemical structure; classification

CA-05342 TENER, GORDON M., Sch. Med., Univ. British Columbia, Vancouver, Canada
chemical structure; deoxyribonucleic acid; deoxyribopolynucleotides; nucleotide sequence

CA-05599 MANTSAVINOS, ROGER, State Univ. New York, Buffalo, N.Y.
antineoplastic agents; carcinogenesis; deoxyribonucleic acid; drugs resistance; neoplastic cells

CA-05661 SCHULMAN, MARTIN P., Col. Med., Univ. Illinois, Chicago, Ill.
porphyria; pyridoxine analogs; deoxypyridoxine; porphyrins

CA-05867 BAKER, BERNARD R., Sch. Pharm., State Univ. New York, Buffalo, N.Y.
synthesis; antimetabolites; antineoplastic agents; enzymes; chemical structure--biological activity

CA-06066 GRIFFIN, BEVERLY S., Cambridge Univ., Cambridge, England
synthesis; ribonucleoside--5'--pyrophosphates; polymerases; molecular structure; hydrogen bond; polymers; polymerization; oligonucleotides; nucleotides; proteins

CA-06194 ELWOOD, J. Clint, Col. Med., State Univ. New York, Res. Fdn., Syracuse, N.Y.
adenosine phosphates; ascites tumors; cell-free systems; decarboxylation; glycolysis; hexose monophosphate pathway; lactates; neoplastic cells; pyruvate; radiolabeled carbon; sarcoma 37; tissue respiration

BIOCHEMISTRY (CONTD)

CA-06266 EISENHARDT, RUDOLF H., Sch. MED., U. Pennsylvania, Philadelphia, Pa.
oxidative phosphorylation; pyrophosphates; neoplasms

CA-06343 FIRSHEIN, WILLIAM, Wesleyan Univ., Middletown, Conn.
deoxyribonucleic acid; metabolites; tissue respiration; bacteria..Diplococcus pneumoniae; virulence, microorganisms; population dynamics, cell

CA-06571 BRESNICK, EDWARD, Sch. Med., Baylor Univ., Houston, Tex.
deaminases..deoxycytidylate deaminase; deoxyribonucleotides; enzymes feedback; hepatoma; histogenesis; liver; NADH2; pyrimidine; radiolabeled carbon; regeneration

CA-06624 BAKER, BERNARD R., Sch. Phar., State Univ. New York, Buffalo, N.Y.
antineoplastic agents; chemical structure; enzymes inhibitors; synthesis; tetrahydrofolic acid antagonists

CA-06657 SILBER, ROBERT, Sch. Med., New York Univ., N.Y.C.
blood cells..leukocytes; bone marrow; carcinogenesis; deoxyribonucleic acid; enzymes; ionizing radiation; leukemia; purine; pyrimidine; radiation effects; transplantation; viruses..leukemia viruses

CA-06853 FRENKEL, EUGENE P., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
deoxyribonucleic acid; thymidine monophosphate; thymidine; deoxycytidine; radiation effects; x-rays; tritium; thymus; starvation; adrenal cortex hormones; neoplasms; antineoplastic agents; transplantation; diurnal variation

CA-06907 ALDRIDGE, WILLIAM G., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
radiation effects; bacteria..Escherichia coli; deoxyribonucleic acid; enzymes inhibitors; ribonucleic acid; freeze-drying; ethylene oxide; fractionation

CA-06913 IVES, DAVID H., Col. Agr., Ohio State Univ. Res. Fdn., Columbus, Ohio
neoplasms transplantation; enzyme feedback; enzyme substrate; reaction sites; thymidine triphosphate; phosphotransferases..ATP:thymidylate 5'--phosphotransferase; phosphotransferases..ATP:thymidine 5'--phosphotransferase; thymidine diphosphate; thymidine monophosphate; hepatoma Novikoff; regeneration; liver; phosphorylation; deoxyribonucleic acid; radiolabeled carbon; ion exchange paper chromatography; thymus; thymidine; phosphotransferases..nucleoside diphosphate

CA-06926 KATZ, EDWARD, Sch. Med., Dent., Georgetown Univ., WASH., D.C.
antineoplastic agents; actinomycin; bacteria; cell-free systems; enzymes; fractionation; fungi.. Actinomycetes; fungi..Streptomyces; methylation; peptides; valine

CA-06992 GENTRY, GLENN A., Sch. Med., Univ. Mississippi, Jackson, Miss.
deoxyribonucleic acid; viruses..equine rhinopneumonitis virus; cell culture; L-cells; enzymes feedback; thymidine; deoxycytidine; tritium

CA-07037 GREENGARD, OLGA, Inst. Muscle Disease, New York, N.Y.
enzymes; enzymes substrate; coenzyme; hormones; hepatoma; cell-free systems; amino acid; liver; cell components..microsomes; proteins; cytology; genetics

CA-07093 POMERANTZ, SEYMOUR H., Sch. Med., Univ. Maryland, Baltimore, Md.
phenol oxidases..tyrosinase; melanoma; skin; adrenal medulla; tyrosine; hydroxylation reactions; tritium

CA-07404 KOCH, ARTHUR L., Col. Med., Univ. Florida, Gainesville, Fla.
mutagens; glycosyltransferases..purine nucleoside phosphorylase; nucleic acids; nucleosides (tides) bases; tautomerism; fluorescence; 5--bromouracil; bacteria; caffeine; viruses..bacteriophage T4; carcinogenesis

CA-07489 TOUSTER, OSCAR, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
ascites tumors; proteins; cell components..cell membranes; cell components..microsomes; nucleotides; nucleosides; ribonucleic acid; glucose; NAD linked enzymes; NADP linked enzymes; liver; bacteria; inosine; adenosine; sialic acid; alpha-aminoisobutyric acid; radiolabeled carbon

CA-07793 TIECKELMANN, HOWARD, Col. Arts, Sci., State Univ. New York, Buffalo, N.Y.
thiamine; pyrimidine; formates; antimetabolites; functional groups; bacteria..Bacillus subtilis; solvents; radiolabeled carbon

CA-07824 ROTH, JAY S., Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.
nucleases..ribonucleases; chemical structure--biological activity; cell components..ribosomes; hepatoma; hepatoma Novikoff; deoxyribonucleic acid; proteins; neoplastic growth

CA-07955 KUN, ERNEST, Univ. California, San Francisco Med. Cr., San Francisco, Cal.
renal hypertrophy; nephrectomy; oxidoreductase.. glutamic dehydrogenase; oxidoreductases..alanine dehydrogenase; aminotransferases..alanine transaminase; aminotransferases..aspartate transaminase; cell components..mitochondria; oxidative phosphorylation; pyridine nucleotides; adenosine triphosphate; amino acids; carbohydrates; adrenal cortex hormones; growth hormones; carcinogens; alkylating agents; actinomycin D; deoxyribonucleic acid; ribonucleic acid

CA-08000 LOFTFIELD, ROBERT B., Sch. Med., Univ. New Mexico, Albuquerque, New Mexico
proteins; hemoglobin; amino acid--RNA ligases; enzyme substrate; isoleucine; valine; bacteria.. Escherichia coli; soluble ribonucleic acid; species; genetics..genetic coding

CA-08155 NEAL, A. LESLIE, Col. Agr., Cornell Univ., Ithaca, N.Y.
neoplastic cells; proteins; glutamine analogs; Ehrlich ascites carcinoma; lymphosarcoma 6C3HED; cell--free systems; amino acid--RNA ligases

CA-08295 TITCHENER, EDWARD B., Col. Med., Univ. Illinois, Chicago, Ill.
cell components..mitochondria; cell components..cell membrane; oxidoreductases..lactate dehydrogenase; oxidoreductases..beta--hydroxybutyrate dehydrogenase; oxidoreductases..glycerophosphate dehydrogenase

CA-08500 FREEDMAN, AARON, Menorah Med. Cr., Kansas City, Mo.
pyruvate; carbohydrates; fats; carbon--carbon ligases.. pyruvate carboxylase; carbon--carbon ligases..acetyl--CoA carboxylase; neoplastic cells; computer analysis

CA-09734 FISHMAN, WILLIAM H., New England Cr. Hosp., Boston, Mass.
phosphomonoesterases..alkaline phosphatase; liver; intestines; bone; blood..serum

EF-00066 NAGEL, CHARLES W., Grad. Sch., Washington State Univ., Pullman, Wash.
carbohydrases..pectic enzymes; fruit; enzymes substrate

FR-00226 GARVER, JOHN C., Univ. Wisconsin, Madison, Wisconsin
laboratory facilities; biological compounds preparation

GM-01520 THIMANN, KENNETH V., Grad. Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
anthocyanins; corn; flavonoids; nucleic acids; nucleotides; photochemistry; purine analogs; Spirodela

GM-01852 HAUROWITZ, FELIX, Indiana Univ., Bloomington, Ind.
amino acids; azoproteins; disulfide bonds; proteins; peptides; immunology..antigens; immunology..antibodies; immunology..complement; blood cells..erythrocytes; chemical structure; glycine; sodium; linoleic acid; peroxidation; hemins; membrane permeability and transport

GM-03923 JAGENDORF, ANDRE T., Grad. Sch., Johns Hopkins Univ., Baltimore, Md.
cell components..chloroplasts; electron transport; high energy compounds; phosphorylation; photosynthesis

GM-04428 ENGLARD, SASHA, Sch. Med., Yeshiva Univ., N.Y.C.
amino acid sequence; cell components; chemical structure--biological activity; dehydrogenases..malate dehydrogenase; molecular weight; reaction sites

GM-04584 COHEN, SAUL G., Grad. Sch., Brandeis Univ., Waltham, Mass.
amidases..urease; catalysts; hydrolysis; molecular asymmetry; proteases..chymotrypsin; proteases..trypsin; reaction sites; stereochemistry

GM-04712 WESTHEIMER, FRANK H., Grad. Sch., Harvard Univ., Cambridge, Mass.
proteases..chymotrypsin; oxidoreductases..alcohol dehydrogenases; zinc; reaction sites; reduction; borohydrides; acetoacetates; Schiff bases; decarboxylases.. acetoacetate decarboxylase; bacteria..Clostridium butyricum; photochemistry

GM-04842 HESS, GEORGE P., Grad. Sch., Cornell Univ., Ithaca, N.Y.
enzymes; optical rotatory dispersion; proteases..chymotrypsin; proteases..diisopropylphosphoryl chymotrypsin; proteases..monoacetyl chymotrypsin; proteases..trypsin

GM-04845 GHIRETTI, FRANCESCO, Dohrn Fdn., Naples, Italy
copper; hemocyanin; hemoerythrin; marine biology; metallo-proteins; toxicology

GM-04922 GRANICK, SAM, Rockefeller Inst., N.Y.C.
porphyrins; chlorophyll; enzymes; magnesium; photochemistry; porphyria; cell components..mitochondria; cell components..chloroplasts

GM-05216 WHITAKER, JOHN R., Col. Agr., Univ. California, Davis, Cal.
amino acid; proteases..ficin

GM-05301 CONN, ERIC E., Col. Agr., Univ. California, Davis, Cal.
coumarins; clover; enzymes; melilotic acid; phenylalanine; hydroxymandelonitrile glycosides; tyrosine; hydrogen cyanide; asparagine; plants; fruits; sorghum

GM-05302 COOPER, CECIL, Sch. Med., Western Reserve Univ., Cleveland, Ohio
adenosine triphosphate; bacteria; cell components..mitochondria; electron transport; oxidative phosphorylation; phosphatases..adenosine triphosphatase

GM-05472 BIEMANN, KLAUS, Mass. Inst. Tech., Cambridge, Mass.
peptides; amino acid; molecular structure; gas chromatography; mass spectrometry; carbohydrates; nucleosides

GM-05524 SPECK, JOHN C., Jr., Grad. Sch., Michigan State Univ., East Lansing, Mich.
carbohydrases..amylases; carbohydrases..b-glucuronidase; enzymes inhibitors..amylase inhibitors; glycosides; hydrolysis; reaction sites

GM-05606 FALCONE, ALFONSO B., Sch. Med., Univ. Wisconsin, Madison, Wis.
dinitrophenol; enzymes inhibitors..phosphatase inhibitors; ion exchange; oxidative phosphorylation; phosphatases.. adenosine triphosphatase; radiolabeled phosphorus

GM-05642 KING, KENDALL W., Virginia Polytechnic Inst., Blacksburg, Va.
bacteria; carbohydrases..cellulase

GM-05810 **ABRAMS, ADOLPH, Sch. Med., Univ. Colorado, Denver, Colo.**
amino acid; bacteria..Streptococcus fecalis; cell components..cell membrane; enzymes; glycolysis; lipids; membrane permeability; proteins; radiolabeled carbon; ribonucleic acid

GM-05811 **MORAWETZ, HERBERT, Polytechnic Inst., Brooklyn, N.Y.**
enzyme models; esters; amides; imides; stereochemistry; polymers: acid: diffusion: solutions association: thermodynamics; optical rotation; conjugates; hydrolysis

GM-05818 **RIGGS, AUSTEN F., II, Grad. Sch., Univ. Texas, Austin, Texas**
hemoglobin: heme proteins: chemical structure--biological activity; peptides; conformations (chemistry); oxygen; Bohr effect; glutathione; blood cells.. reticulocytes: radiolabeled: reaction sites: nitrogen fixation: microorganisms

GM-06048 **MAAS, WERNER K., Sch. Med., New York Univ., New York, N.Y.**
bacteria..Escherichia coli; enzymes; arginine; genetics.. genes; mutations; genetic mapping; transcarbamylases.. ornithine transcarbamylase; reproduction, microorganisms; genetics..sex factor: genetics..episomes

GM-06270 **SMITH, LUCILE, Sch. Med., Dartmouth Col., Hanover, N.H.**
oxidative phosphorylation: electron transport: oxidoreductases: bacteria: photosynthesis: oxygen: cell components

GM-06276 **LEVY, HARVEY M., Sch. Med., New York Univ., N.Y.C.**
myosin; oxygen transport; molecular shape; temperature; phosphatases..adenosine triphosphatase; phosphates; reaction sites; water

GM-06317 **PLAUT, WALTER, Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.**
cell components..cytoplasm; ribonucleic acid; deoxyribonucleic acid; radiolabeled; protozoa..Amoeba; chemical structure

GM-06452 **FRUTON, JOSEPH S., Sch. Med., Yale Univ., New Haven, Conn.**
peptides: proteases..cathepsins: chemical structure: amino acid: amides

GM-06579 **KOVACS, JOSEPH, Grad, Sch., St. John's Univ., Jamaica, N.Y.**
antineoplastic agents; asparagine; aspartic acid; bactericides; peptides; polymerization; polypeptides; transpeptidation

GM-06590 **REED, LESTER J., Grad. Sch., Univ. Texas, Austin, Texas**
bacteria..Escherichia coli; carboxylases; coenzyme A; dehydrogenases; enzymes complexes; fractionation; α-ketoglutarate; NAD; pyruvate; transacylases

GM-06591 **HARTMAN, STANDISH C., Sch. Med., Harvard Univ., Boston, Mass.**
enzymes; glutamines; peptides; reaction sites; enzymes inhibitors: glutamine analogs

GM-06628 **BYRNE, WILLIAM L., Sch. Med., Duke Univ., Durham, N.C.**
enzymes feedback; enzymes inhibitors; phosphomonoesterases fructose--1,6-diphosphatase; phosphomonoesterases glucose-6-phosphatase; phosphoserine; sedoheptulose diphosphate

GM-06631 **BERGMANN, FELIX G., Sch. Med., Hebrew Univ., Jerusalem, Israel**
purine; pteridines; oxidases..xanthine oxidase; chemical structure--biological activity; bacteria..Pseudomonas aeruginosa; oxidases; urate oxidase; uric acid; thiouric acids; kidney function

GM-06632 **PARKS, LEO W., Grad. Sch., Oregon State Univ., Corvallis, Ore.**
adenosylsulfonium; enzymes; fungi..Saccharomyces cerevisiae; methionine; mutations

GM-06635 **SCHWERT, GEORGE W., Univ. Kentucky Med. Cr., Lexington, Ky.**
amino acid; binding; coenzyme; dehydrogenases..lactate dehydrogenases; ion..anions; molecular structure; sulfhydryls

GM-06688 **ALBERTY, ROBERT A., Univ. Wisconsin, Madison, Wis.**
dehydratases..L-malate hydrolase; dehydrogenases.. alcohol dehydrogenase; nucleases..ribonucleases

GM-06814 **BERG, PAUL, Sch. Med., Stanford Univ., Stanford, Cal.**
amino acid; cell components..ribosomes; chemical bonds.. bond cleavage; chemical structure--biological activity; deoxyribonucleic acid; enzymes; nucleotide sequence; oligonucleotides; proteins; ribonucleic acid

GM-06889 **SIBLEY, CHARLES G., Grad. Sch., Cornell Univ., Ithaca, N.Y.**
egg proteins; egg white; electrophoresis; eye..lens; genetics; hemoglobin; hydrolysis; phylogeny; proteases.. pepsin; proteases..trypsin; proteins

GM-06992 **BRANDT, IRA K., Sch. Med., Yale Univ., New Haven, Conn.**
hippurates: enzymes: liver: embryology

GM-07076 **STRACHER, ALFRED, Sch. Med., State Univ. New York, Downstate Med. Cr., Brooklyn, N.Y.**
muscle proteins: myosin: phosphatases, adenosine triphosphatase; functional groups; sulfhydryls; molecular structure; amino acid; carboxymethylation

GM-07221 **YUEN, GEORGE U., Arizona State Univ., Tempe, Ariz.**
amino acid analogs; bacteria..Bacillus cereus; heterocyclic compounds; hydrolases..acylase I; kidney; spores; synthesis

GM-07317 **HARBURY, HENRY A., Sch. Med., Yale Univ., New Haven, Conn.**
heme-proteins: cytochrome C: spectrometry: potentiometry; amino acid sequence: electron charge distribution: peptides: ligands: functional groups

GM-07532 **CASTELFRANCO, PAUL A., Grad. Sch., Univ. California, Davis, Cal.**
3-amino-1H-1,2,4-trizaole; radiolabeled carbon; plants; riboflavin; cytotoxicity; paper chromatography; peroxidases; oxidoreductases..monoamine oxidase; 2-chloro-4,6-bis(ethylamino)-s-triazine

GM-07577 **BUNDY, HALLIE F., Mt. St. Mary's Col., Los Angeles, Cal.**
proteases..chymotrypsin; proteases..trypsin; nitroanilides; N-acyl amino acids; enzymes inhibitors..chymotrypsin inhibitors; proteolysis

GM-07578 **WINER, ALFRED D., Col. Med., Univ. Kentucky, Lexington, Ky.**
ion..anions; oxidoreductases..lactate dehydrogenase; NAD linked enzymes; fluorescence; dissociation constants; instrumentation; binding; enzymes substrate complex

GM-07658 **KROGMANN, DAVID W., Col. Lib. Arts, Wayne State Univ., Detroit, Mich.**
adenosine triphosphate; cell components..chloroplasts; chemical structure--biological activity; electron transport; phosphorylation; photochemistry; plastiquinone

GM-07884 **PARK, JANE H., Sch. Med., Vanderbilt Univ., Nashville, Tenn.**
amino acid; chemical structure--biological activity; dehydrogenases..glyceraldehyde-3-phosphate dehydrogenases; enzymes substrate complex; NAD linked enzymes; proteases; reaction sites

GM-07903 **McELROY, WILLIAM D., Johns Hopkins Univ., Baltimore, Md.**
laboratory facilities

GM-07919 **SMITH, ROBERTS A., Grad. Sch., Univ. California, Los Angeles, Cal.**
amidophosphates: bacteria..Escherichia coli: bacteria.. Mycobacterium; phosphates; glucose; phosphotransferases..amidophosphate hexose phosphotransferase

GM-07977 **STEWART, CHARLES J., San Diego State Col., San Diego, Cal.**
adenosine triphosphate; coenzyme A analogs; enzymes inhibitors; oxygen; oxypantotheine; synthesis

GM-08041 **SOLS, ALBERTO, Inst. Gregorio Maranon, Madrid, Spain**
glycolysis; enzyme feedback; fungi..yeasts; glucose; phosphorylation; glycogen; muscles; insulin; phosphorylation; phosphomonoesterases..fructose 1,6--diphosphatase; phosphotransferases..ATP : D--fructose--6--phosphate 1--phosphotransferase; phosphotransferases.. ATP : D--glucose 6--phosphotransferase; phosphotransferases..ATP : D--hexose 6--phosphotransferase; trehalose; carbohydrates

GM-08088 **NAGEL, CHARLES W., Grad. Sch., Washington State Univ., Pullman, Wash.**
carbohydrases..polygalacturonase: bacteria..Bacillus polymyxa: chemical structure: enzyme substrate

GM-08182 **McCAY, PAUL B., Oklahoma Med. Res. Fdn., Oklahoma City, Okla.**
oxidoreductases..gulonolactone oxidase; enzyme inhibitors; lipid peroxides; tocopherol; ascorbic acid; dietary deficiency; biotin

GM-08197 **WOLD, FINN, Univ. Illinois, Urbana, Ill.**
proteins; molecular structure; albumins..serum albumin; p,p'--difluoro--m,m'--dinitrodiphenylsulfone; nucleases.. ribonuclease; hydrases..enolase; fungi..yeast; muscle; deuterium; glyceric acid 2--phosphate; synthesis; enzyme substrate analogs; enzyme inhibitors; carboxymethylation; immunology; proteases..chymotrypsinogen

GM-08282 **UNDERWOOD, ARTHUR L., Jr., Grad. Sch., Emory Univ., Atlanta, Ga.**
oxidation--reduction; NAD(H2); NADP(H2); cytochrome C; nucleases..ribonuclease; sulfur; electrochemistry; instrumentation--methodology

GM-08285 **INGRAHAM, LLOYD L., Col. Agr., Univ. California, Davis, Cal.**
deuterium; thiamine; 3,4--dimethyl--2--benzoyl thiazolium iodide; oxazoles; quaternary ammonium compounds; chemical bonds; high energy compounds

GM-08318 **IRVIN, J. LOGAN, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
histones; cell components..cell nucleus; nucleoproteins; amino acids; liver; regeneration; hydrocortisone; enzymes

GM-08361 **McMENAMY, RAPIER H., E.J. Meyer Memorial Hosp., Buffalo, N.Y.**
albumins: binding: dipole moments: electron charge distribution; enzymes inhibitors; enzymes substrate complex: equilibrium dialysis: tryptophan

GM-08437 **NEIDHARDT, FREDERICK C., Grad. Sch., Purdue Univ., Lafayette, Ind.**
bacteria: microbial culture: growth, microorganisms

GM-08474 **WESTHEAD, EDWARD W., Dartmouth Med. Sch., Hanover, N.H.**
dehydratases..D-2-phosphoglycerate hydrolase; fungi.. yeasts; amino acid; proteolysis; amino acid sequence

GM-08500 **THOMA, JOHN A., Grad. Sch., Indiana Univ., Bloomington, Ind.**
carbohydrases..α-amylase: carbohydrases..β-amylase: conformations (chemistry); amino acid sequence; catalysts: ion..anion: starch

(contd)

BIOCHEMISTRY (CONTD)

GM-08502 SHINER, V.J., Jr., Indiana Univ., Bloomington, Ind.
deuterium; dehydrogenation; pyridine nucleotides; proteins; enzymes

GM-08714 MURACHI, TAKASHI, Nagoya City Univ., Nagoya, Japan
amino acid; chemical structure--biological activity; proteases..bromelin; reaction sites

GM-08735 VENNESLAND, BIRGIT, Grad. Sch., Univ. Chicago, Chicago, Ill.
carbon dioxide; phosphorylation; photosynthesis

GM-08795 KOVACS, JOSEPH, St. John's Univ., Jamaica, N.Y.
polypeptides; anthrax; glutamyl peptides; stereochemistry; synthesis: transpeptidation: immune sera: immunological tests

GM-08816 HU, A.S.L., Univ. Kentucky Med. Cr., Lexington, Ky.
bacteria..Pseudomonas saccharophila; dehydrogenases..L-arabinose dehydrogenase; dehydrogenases..D-galactose dehydrogenase; molecules..macromolecules; phylogeny; proteins

GM-08820 FEINGOLD, DAVID S., Sch. Natural Sci., Univ. Pittsburgh, Pittsburgh, Pa.
microorganisms; pentosans; D--mannans; bacteria.. Agrobacterium tumefaciens; radiolabeled carbon; glucose; D--mannose; glucuronic acid; D--xylose; fungi.. Cryptococcus; oxidoreductases; sucrose; polysaccharides

GM-08821 STRECKER, HAROLD J., Col. Med., Yeshiva Univ., New York, N.Y.
delta-1-pyrroline-5-carboxylic acid; glutamates; reduction; proline; radiolabeled; enzymes; tissue

GM-08822 FRENCH, DEXTER, Iowa State Univ., Sci., Tech., Ames, Iowa
carbohydrases..amylases; enzyme substrate complex; reaction sites; acid ionization constants; polysaccharides; oligosaccharides

GM-08825 PEANASKY, ROBERT J., Sch. Med., Marquette Univ., Milwaukee, Wis.
amino acid sequence; column chromatography; electrophoresis; enzymes inhibitors..chymotrypsin inhibitors; molecular weight; proteases..chymotrypsin; proteolysis; thyroglobulin; thyroid gland; thyrotropin

GM-08895 BALLS, ARNOLD K., 800 Buchanan St., Albany, Cal.
proteins; proteases..chymotrypsin; proteases..trypsin; enzyme inhibitors; reaction sites; esterases

GM-08958 WRIGHT, BARBARA E., Massachusetts Gen. Hosp., Boston, Mass.
fungi..slime molds; cell differentiation; polysaccharides; proteins; phosphomonoesterases..alkaline phosphatase; nucleic acids; cellulose

GM-08961 TAYLOR, JAY E., Kent State Univ., Kent, Ohio
enzymes; reaction sites; enzyme substrate complex; stirred flow reactor; proteases..papain; oxidoreductases.. glucose oxidases; amidohydrolases..urease; proteases.. trypsin

GM-08963 RAY, WILLIAM J., Jr., Grad. Sch., Purdue Univ., Lafayette, Ind.
amino acid; muscle; phosphomutases..phosphoglycero-mutase

GM-08964 MORRISON, MARTIN, City Hope Med. Cr., Duarte, Cal.
chemical bonds; chemical structure--biological activity; heme; peroxidases..lactoperoxidase

GM-08966 WADKINS, CHARLES L., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
amino acid sequence; diffusion; molecular structure; oxidative phosphorylation; phosphotransferases..ATP:AMP phosphotransferase; reaction sites

GM-09023 JACOBSON, HOMER, Brooklyn Col., Brooklyn, N.Y.
mutagens; deoxyribonucleic acid; mutations; viruses; nitrous acid; alkylating agents; deamination; purine; pyrimidine; hydrolysis; chemical structure--biological activity

GM-09171 GORDON, MILTON P., Pacific Slope Biochemist Assn., Univ. Washington, Seattle, Wash.
conferences

GM-09241 SMITH, MICHAEL, Fisheries Res. Bd., Vancouver, Canada
deoxyribonucleic acid; chemical structure; synthesis; deoxyribonucleoside-3', 5'-monophosphate

GM-09246 HORIO, TAKEKAZU, Osaka Univ., Osaka, Japan
heme-proteins; reductases; chemical structure; photophosphorylation

GM-09291 DUERKSEN, JACOB D., Sch. Med., Univ. Kansas, Kansas City, Kans.
carbohydrases..β-glycosidase; fungi..yeasts; molecular structure; immune sera; genetics; proteins; β-glycosides

GM-09293 SMITH, FRED, Sch. Agr., Univ. Minnesota, Minneapolis, Minn.
carbohydrates; polysaccharides; enzymes; molecular structure

GM-09315 HESS, GEORGE P., Grad. Sch., Cornell Univ., Ithaca, N.Y.
peptides; chemical bonds..bond cleavage; serine; threonine; proteins; hydrogen fluoride

GM-09316 HANSEN, R.G., Michigan State Univ., East Lansing, Mich.
chemical structure--biological activity; enzymes; liver; mammary gland; nucleotides

GM-09320 TORRIANI-GORINI, ANNAMARIA, Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.
bacteria..Escherichia coli; bacteria..Serratia marcescens; deoxyribonucleic acid; genetics..episomes; phosphomonoesterases..alkaline phosphatase

GM-09335 WINNICK, THEODORE, Grad. Sch., Univ. Hawaii, Honolulu, Hawaii
cyclization; polypeptides; cell-free systems; ribonucleic acid; amino acid; amino acid analogs; enzymes

GM-09336 WOOD, WILLIS A., Michigan State Univ., East Lansing, Mich.
coenzyme; isomerases..L--ribulose--5--phosphate--4--epimerase; isomerases..D--ribulose--5--phosphate--3--epimerase; bacteria; isomerases..D--ribose--5--phosphate ketol isomerase; crystallization; enzymes; reaction sites

GM-09337 MAZELIS, MENDEL, Col. Agr., Univ. California, Davis, Cal.
enzymes; S-methylcysteine; S-methylcysteine sulfoxides; plants; radiolabeled carbon; sulfur compounds

GM-09396 PAULUS, HENRY, Sch. Med., Harvard Univ., Boston, Mass.
bacteria..Bacillus polymyxa; peptides; polymyxin B

GM-09434 SAIDEL, L.J., Chicago Med. Sch., Chicago, Ill.
proteins; amino acid; molecular structure; hydrolysis

GM-09585 HAMILTON, GORDON A., Grad. Sch., Princeton Univ., Princeton, N.J.
ions; oxidation--reduction; hydroxylation reactions; iron; enzymes; ascorbic acid; oxygen; hydrogen peroxide; copper; catechol

GM-09587 GRAVES, DONALD J., Iowa State Univ., Col. Agr., Ames, Iowa
molecules..macromolecules; phosphorylase..glycogen phosphorylase; phosphomonoesterases..phosphorylase phosphatase; reaction sites; chemical bonds..bond cleavage; stereochemistry; polymerization

GM-09589 MAURITZEN, CHARLES M., R. Grimwade Sch. Biochem., Univ. Melbourne, Victoria, Australia
proteins; cell components..cell nucleus; neoplasms; histones

GM-09709 EMERY, THOMAS F., Sch. Med., Yale Univ., New Haven, Conn.
2--amino--5--hydroxyaminovaleric acid; microorganisms; enzymes; hydroxylamine; metal chelates; iron; deaminases..aspartase; hydroxylaminoaspartic acid; hydroxyamino acids; hadacidin

GM-09775 SCHAEFFER, HOWARD J., Sch. Phar., State Univ. N.Y., Buffalo, N.Y.
biotin; nitrogen; imidazolidones; carbonyl group; carboxylation

GM-09776 SMITH, EDGAR D., Univ. Arkansas, Little Rock, Ark.
gas chromatography; amino acid; polar molecules; amino acid esters; n-acyl amino acids

GM-09806 PURVIS, JOHN L., Univ. Rhode Island, Kingston, R.I.
pyridine nucleotides; cell components..mitochondria; coenzymes; dehydrogenases; radiolabeled carbon; chemical structure

GM-09826 BELLO, JAKE, Hlth. Res., Inc., Buffalo, N.Y.
peptides; lithium bromide; solvents; proteins denaturation; viscosity; stereochemistry

GM-09827 SUELTER, CLARENCE H., Grad. Sch., Michigan State Univ., East Lansing, Mich.
muscle contraction; aminohydrolases..adenylate deaminase; myosin; actomyosin; muscle proteins; muscles

GM-09830 KENNELL, DAVID E., Sch. Med., Washington Univ., St. Louis, Mo.
proteins; ribonucleic acid; bacteria; genetics

GM-09869 LEVITCH, MARK E., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
phenazine--1--carboxylic acid; bacteria..Pseudomonas; radiolabeled; mutations; cell--free systems; enzymes

GM-09905 ABRASH, HENRY I., San Fernando Valley State Col. Fdn., Northridge, Cal.
nucleases..ribonucleases; uridine-3'(4-nitrophenyl) phosphate; uridine-2':3' monophosphates; nucleoside cyclic monophosphates; chemical structure; cyclization hydrolysis

GM-09955 TAYLOR, W. HERMAN, Portland State Col., Portland, Ore.
oxidoreductases..dihydro--orotate dehydrogenase; membrane; cell--free systems; bacteria..Escherichia coli; mutations; binding; cell

GM-10006 NEUHAUS, FRANCIS C., Grad. Sch., Northwestern Univ., Evanston, Ill.
enzymes; metalloproteins; hemoerythrin; blood coagulation; cell components..cell wall; laboratory facilities

GM-10132 STUMPF, PAUL K., Col. Agr., Univ. California, Davis, Cal.
acetates; cell components..chloroplasts; coenzymes; enzymes; lipids; oleic acid; palmitic acid; photochemistry

GM-10166 ARMSTRONG, FRANK B., Sch. Agr., North Carolina State Col., Raleigh, N.C.
bacteria..Salmonella typhimurium; enzymes; genetics; isoleucine; mutations; valine

GM-10180 NATHANS, DANIEL, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
amino acyl soluble ribonucleic acid; bacteria..Escherichia coli; cell components..ribosomes; chemical structure; proteins

GM-10181 POCKER, YESHAYAU, Grad. Sch., Univ. Washington, Seattle, Wash.
acetaldehydes; catalysts..polyfunctional catalysts; dehydratases; dehydration reactions; deuterium oxide; enzymes inhibitors; fumarate; hydration reactions; hydrogen-ion concentration; hydrogen transport; hydrogenases; hydrostatic pressure; isobutyraldehyde; malic acid; molecular volume; pyridine aldehydes; thermodynamics; water

GM-10214 MORRISON, MARTIN, City Hope Med. Cr., Duarte, Cal.
oxidoreductases..cytochrome C oxidase; hemins; lipoproteins; cytochrome a; copper; stoichiometry

GM-10249 MOOS, CARL, Sch. Med., State Univ. New York, Buffalo, N.Y.
muscle contraction; muscle..myofibrils; adenosine phosphates; phosphorylation; adenosine triphosphate; binding

GM-10285 WHITE, DAVID C., Col. Med., Univ. Kentucky, Lexington, Ky.
bacteria..Hemophilus; cell components..protoplastic membrane; electron transport; genetics; hemins; mutations; nucleic acids inhibitors; reductases..nitrate reductase

GM-10350 RUSSELL, PERCY J., Kansas Univ., Med. Sch., Kansas City, Kansas
cell components..microsomes; cell components.. mitochondria; fungi..Saccharmyces cerevisiae; phosphotransferases..ATP: AMP phosphotransferase; radiolabeled carbon; radiolabeled phosphorus

GM-10358 KELLER, PATRICIA J., Sch. Dent., Univ. Washington, Seattle, Wash.
pancreas; proteins; cell components..ribosomes; enzymes; chemical structure

GM-10359 LEVENBERG, BRUCE, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
agaritine; fungi..Basidiomycetes; oxidoreductases.. phenylhydrazine oxidases; transacylases..glutamyltransferase; pteridines

GM-10384 SRINIVASAN, P.R., Col. Phys., Surg., Columbia Univ., New York, N.Y.
o--aminobenzoic acid; cell--free systems; bacteria.. Escherichia coli; fungi..Streptomyces; fungi..yeasts; carbomycin; p--amino--benzoic acid; shikimic acid--5--phosphate; ribonucleic acid; deoxyribonucleic acid; nucleosides(tides) bases; methyl groups

GM-10395 BAUTZ, EKKEHARD K.F., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
chemical structure--biological activity; fractionation; genetics; messenger ribonucleic acid; viruses.. bacteriophage T4

GM-10446 COOPER, CECIL, Sch. Med., Western Reserve Univ., Cleveland, Ohio
bacteria..Bacillus stearothermophilus; oxidative phosphorylation; adenosine diphosphate; oxygen transport; water; temperature

GM-10447 SCHLESSINGER, DAVID, Sch. Med., Washington Univ., St. Louis, Mo.
cell components..ribosomes; bacteria..Escherichia coli; ribonucleoproteins; messenger ribonucleic acid; transfer ribonucleic acid; radiolabeled carbon; radiolabeled phosphorus

GM-10496 LINNANE, ANTHONY W., Monash Univ. Clayton, Victoria, Australia
cell components..mitochondria; electron transport; fungi..yeasts; cytochrome; oxygen; anaerobiosis; aerobiosis; dehydrogenases; cell-free systems; amino acid; cell components..cell membrane; lipids; nucleotides

GM-10511 HEIN, GEORGE E., Grad. Sch., Boston Univ., Boston, Mass.
enzymes inhibitors..chymotrypsin inhibitors; synthesis; chemical structure; iodine; x--ray diffraction

GM-10513 GOLD, ALLEN M., Col. Phys., Surg., Columbia Univ., N.Y.C.
esterases; enzymes inhibitors..antiesterases; phosphorylation; functional groups; alkylation; proteases..trypsin; proteases..chymotrypsin; radiolabeled carbon; hydrolysis; synthesis

GM-10524 WILKEN, DAVID R., Oklahoma State Univ., Stillwater, Okla.
nucleopeptides; chemical structure--biological activity; amino acid sequence; species

GM-10538 ODA, TAKUZO, Sch. Med., Okayama Univ., Okayama, Japan
cell components..mitochondria; fractionation; proteins; enzyme complexes; dehydrogenases; transduction; cell components..cell membrane

GM-10561 WINSTEN, WALTER A., Hofstra Univ., Hempstead, Long Island, N.Y.
reversed--phase partition chromatography; instrumentation--methodology; polyethylene; soluble ribonucleic acid; steroids; phospholipids; spectrometry; polynucleotides; adsorption chromatography; solutions..aqueous solutions; hydrophobic bonds; London--Van der Waal's forces

GM-10577 SU, JONG-CHING, Col. Agr., National Taiwan Univ., Taipei, Taiwan, China
algae; bamboo shoots; D-mannans; cellulose; glucose; radiolabeled carbon; fractionation; chemical structure; polysaccharides; polymers; sugar nucleotides

GM-10588 SIBATANI, ATHURIO, Hirosnima Univ., Hiroshima, Japan
messenger ribonucleic acid; cell components.. ribosomes; chemical structure--biological activity; binding; cell differentiation; deoxyribonucleic acid; genetics; neoplastic cells; radiolabeled; fractionation; bacteria; proteins

GM-10591 ROESKE, ROGER W., Indiana Univ. Med. Cr., Indianapolis, Ind.
proteases..trypsinogen; calcium; synthesis; peptides; aspartic acid; myoglobin; conformations (chemistry); binding; metal

GM-10613 FIFE, THOMAS H., Sch. Med., Univ. Southern California, Los Angeles, Cal.
acetals; acid; carbohydrases..glycosidases; glycosides; hydrolysis; nucleophilic substitution; reaction rates (chemistry)

GM-10627 SMITH, ROBERTS A., Grad. Sch., Univ. California, Los Angeles, Cal.
thiophosphates; bacteria..Escherichia coli; transsulfurases; synthesis; enzymes inhibitors; phosphorylation; chemical structure--biological activity

GM-10666 GHOLSON, ROBERT K., Oklahoma State Univ., Stillwater, Okla.
alkanes; bacteria; aerobes; oxidation; enzymes; radiolabeled carbon; cell-free systems; coenzymes; oxygen

GM-10681 PARDUE, HARRY L., Grad. Sch., Purdue Univ., W. Lafeyette, Ind.
oxidation; deamination; amino acid; oxidases..amino acid oxidases; enzymes inhibitors..amino oxidase inhibitors; reaction rates (chemistry); enzymes substrate

GM-10699 REMY, CHARLES N., Wake Forest Col., Bowman Gray Sch. Med., Winston-Salem, N.C.
purines; pyridines; S--adenosylmethionine; 6--methylaminopurine; 6--methyl mercaptopurine; transmethylases; transmethylation; aminopurines; amination (chemistry); bacteria

GM-10791 KELLER, ELIZABETH B., Cornell Univ., Ithaca, N.Y.
proteins; soluble ribonucleic acid; nucleotide sequence; amino acid RNA--ligases; bacteria..Escherichia coli

GM-10917 GOTTSCHALK, ALFRED, Max-Planck Inst., Tubingen, Germany
chemical structure; sputum; virus inhibitors; hemagglutination inhibition; glycoproteins

GM-10978 HICKS, G. PHILLIP, University Hosps., Madison, Wis.
bioassay; enzymes..isoenzymes; enzyme (reaction) analyzer; fractionation; instrumentation-methodology; reaction rates (chemistry)

GM-10981 ALIVISATOS, S.G.A., Chicago Med. Sch., Chicago, Ill.
purine nucleotides; guanosine phosphates; adenosine phosphates; inosine monophosphate; soluble ribonucleic acid; ascites tumors; NAD

GM-10997 DAVIES, ROBERT E., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
cell components..mitochondria; kidney function; liver function; ion exchange; sulfates; phosphorus; sulfatases.. arylsulfatases; kidney..renal tubular transport

GM-11057 FRISCH, DAVID M., Los Angeles State Col., Los Angeles, Cal.
grasses; pyrimidine; enzymes; deaminases..pyrimidine aminohydrolases; phosphomonoesterases..5'-nucleotidases; cell-free systems; phosphotransferases; radiolabeled carbon; enzymes substrate; chemical structure--biological activity; thymidine monophosphate; 5-methyl-2'-deoxycytidine monophosphate; synthetases

GM-11105 ADAMS, ELIJAH, Sch. Med., Univ. Maryland, Baltimore, Md.
hydroxyproline; proline; a--ketoglutarate; aldolases; oxidoreductases..D--allohydroxyproline oxidoreductases; enzymes; collagen; chemical structure--biological activity; bacteria; isomerases..hydroxyproline--2--epimerase

GM-11160 DAVIS, LEODIS, Col. Med., Howard Univ., Washington, D.C.
dehydratases..threonine hydrolyase (deaminating); dehydratases..serine hydrolyase (deaminating)

GM-11182 SHIELDS, JAMES E., Case Inst. Technology, Cleveland, Ohio
peptides; hydrogen bond; molecular structure; cyclic peptides; functional groups; esters; hydrolysis; proline; synthesis; enzymes

GM-11197 WEED, LAWRENCE L., Sch. Med., Western Reserve univ., Cleveland, Ohio
bacteria..Bacillus subtilis; mutations; transformation; copper; deoxyribonucleic acid; cell components..cell wall; chemical structure--biological activity

GM-11273 GUYMON, JAMES F., Col. Agr., Univ. California, Davis, Cal.
fungi..Saccharomyces cerevisiae; genetic strains; alcohols; Ehrlich reaction; growth, microorganisms; amino acids; enzymes; enzymes feedback

GM-11297 KALLIO, REINO E., Col. Med., State Univ. Iowa, Iowa City, Iowa
alkanes; bacteria; fatty acids; isomers; microbial culture; oxidation; oxygen tension; oxygenases

GM-11304 FIERS, WALTER C., Faculty Med., State Univ., Gent, Belgium
bacteria..Lactobacillus acidophilus; genetics..genetic coding; hydrolysis; molecular structure; phosphodiesterases; ribonucleic acid; viruses..Bacteriophage MS2

(contd)

BIOCHEMISTRY (CONTD)

GM-11334 KOSOWER, EDWARD M., Col. Arts, Sci., State Univ. New York, Stony Brook, N.Y.
amino acid; enzymes substrate complex; free radicals; functional groups; photochemistry; proteases..chymotrypsin; reaction sites; tritium

GM-11345 GORDON, JULIUS A., Univ. Colorado Med. Cr., Denver, Colo.
proteins; proteins denaturation; binding; albumins; proteases..chymotrypsin; formamides; chemical structure; synthesis; urea; radiolabeled carbon

GM-11406 LEVIN, ALFRED P., Grad. Sch., Univ. Tennessee, Knoxville, Tenn.
bacteria..Salmonella typhimurium; chemical structure--biological activity; enzymes; genetic mapping; genetics.. gene interaction; genetics..genes; purine; mutations

GM-11429 SCHIRCH, LAVERNE, Sch. Sci., Bluffton Col., Bluffton, Ohio
aldolases..L-threonine acetaldehydelyase; aldolases.. serine hydroxymethyltransferase; amino acid sequence; chemical structure; coenzyme

GM-11437 SHAPIRO, ROBERT, Grad. Sch. Arts, Sci., New York Univ., N.Y.C.
criteria; deoxyribonucleic acid; mutagens; mutations; nitrous acid; nucleosides; nucleotides; ribonucleic acid

GM-11485 GUARINO, ARMAND J., Woman's Med. Col., Philadelphia, Pa.
fungi..Cordyceps militaris; nucleosides; urea; cordycepin; growth inhibitors; nucleic acids; proteins; molecular structure; bacteria..Escherichia coli; bacteria..Bacillus subtilis; mycelium; heterothallic reproduction

GM-11506 OFENGAND, JAMES, Sch. Med., Univ. California, San Francisco, Cal.
cell components..ribosomes; chemical structure--biological activity; fractionation; messenger ribonucleic acid; reaction sites

GM-11518 GILHAM, PETER T., Sch. Sci., Purdue Univ., Lafayette, Ind.
chemical structure; fractionation; nucleic acids; nucleotide sequence; polynucleotides; solutions.. aqueous solutions; synthesis

GM-11527 BRAWERMAN, GEORGE, Sch. Med., Yale Univ., New Haven, Conn.
ribonucleic acid; cell differentiation; chemical structure; cell components..ribosomes; cell components..chloroplasts; protozoa..Euglena; proteins; cell--free systems; immunology..antigen--antibody reactions; genetics..genes; radiolabeled carbon

GM-11580 COE, ELMON L., Northwestern Univ. Med. Sch., Chicago, Ill.
glycolysis; phosphorylation; glucose; nucleotides; adenosine triphosphate; tritium; protein-bound amino acids; iodoacetate; 2-4-dinitrophenol; Ehrlich ascites carcinoma

GM-11639 ULMER, DAVID D., Harvard Med. Sch., Boston, Mass.
binding; chromophores; enzymes; enzymes substrate complex; functional groups; instrumentation-methodology; metal complexes; proteins; reaction sites; ultraviolet spectropolarimetry

GM-11672 BARNETT, LEWIS B., Sch. Agr., Virginia Polytechnic Inst., Blacksburg, Va.
proteins; cell components..ribosomes; ribonucleic acid; chemical bonds; bacteria..Escherichia coli

GM-11675 SAUNDERS, MARTIN, Grad. Sch., Yale Univ., New Haven, Conn.
proteins; chemical structure; stereochemistry; tritium; instrumentation-methodology; gases; solid state (chemistry); solutions

GM-11737 SMITH, FRED, Sch. Agr., Univ. Minnesota, St. Paul, Minn.
binding; concanavalin-A; dextran; fungi..yeasts; glycogen; D-mannans; polysaccharides; proteins

GM-11738 SANTER, MELVIN, Haverford Col., Haverford, Pa.
bacteria..Escherichia coli; bacteria..Serratia Marcescens; cell components..ribosomes; chemical structure; dehydratases..tryptophan synthetase; genetic mapping; genetics..hybrids; immunology..antigen-antibody reactions; phosphatases; proteins; ribonucleic acid; tryptophan

GM-11748 PLANE, ROBERT A., Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.
binding; chlorophyll; cobalt; enzymes; heme; iron; magnesium; metal complexes; tetrapyrroles; vitamin B12

GM-11765 DENNIS, DON, Sch. Arts, Sci., Univ. Delaware, Newark, Del.
bacteria..Clostridium butyricum; deuterium; functional groups; isomers; lactates; molecular rearrangement; racemization; stable isotope labeled oxygen; tritium

GM-11788 STARK, GEORGE R., Sch. Med., Stanford Univ., Palo Alto, Cal.
alkylation; amino acid sequence; cyanates; functional groups; methionine; molecular structure; nucleases..ribonucleases; proteins; proteins denaturation; resins; styrene; sulfonium compounds

GM-11793 SANO, SEIYO, Fac. Med., Kyoto Univ., Kyoto, Japan
cytochrome C; synthesis; protoporphyrins; peptides; chemical structure--biological activity

GM-11799 SCHELLENBERG, KARL A., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
oxidoreductases..alcohol dehydrogenase; ethanol; tritium; hydrogen transport; reaction sites; sulfhydryls; enzymes substrate; coenzyme analogs; synthesis; binding; enzymes models

GM-11805 ERLANGER, BERNARD F., Sch. Phys., Surg., Columbia Univ., N.Y.C.
proteases..diethylphosphorylchymotrypsin; proteases.. diethylphosphoryltrypsin; proteases..trypsin; proteases..chymotrypsin; electron donors; enzymes inhibitors; chemical structure--biological activity

GM-11814 HOOPER, ALAN B., Col. Lit., Sci., Arts, Univ. Minnesota, Minneapolis, Minn.
nitrification; cell--free systems; hydroxylamine; oxidation; ammonia; nitrites; autotrophy; fungi.. Streptomyces nitrificans; bacteria..Nitrosomonas europaea; bacteria..Nitrosocystis oceanus; enzymes

GM-11814 HOOPER, ALAN B., Col. Lit., Sci., Arts, Univ. Minnesota, Minneapolis, Minn.
ammonia; autotrophy; bacteria..Nitrosocystis oceanus; bacteria..Nitrosomonas europaea; cell-free systems; enzymes; fungi..Streptomyces nitrificans; hydroxylamine; nitrification; nitrites; oxidation

GM-11820 CAPLOW, MICHAEL, Sch. Med., Yale Univ., New Haven, Conn.
proteases..chymotrypsin; acylation; deacylation; bacteria..Clostridium; biotin; biological models

GM-11907 FISHER, JAMES R., Grad. Sch., Florida State Univ., Tallahassee, Fla.
deaminases..adenosine deaminase; enzymes substrate; molecular structure; phylogeny

GM-11916 ZIMM, BRUNO H., Sch. Sci., Eng., Univ. California, San Diego, La Jolla, Cal.
molecules..macromolecules; nucleic acids; deoxyribonucleic acid; molecular structure; molecular shape; molecular size; bacteria..Bacillus subtilis; transformation; genetic mapping; solutions; viscosity; sedimentation constants; light scattering; temperature; nucleic acids denaturation

GM-11936 AUGUST, JOSEPH T., Albert Einstein Col. Med., New York, N.Y.
ribonucleic acid; bacteria..Escherichia coli; cell components..ribosomes; proteins; enzymes; messenger ribonucleic acid; viruses..bacteriophage T2; chemical structure; nucleic acids inhibitors

GM-11983 LIN, EDMUND C.C., Harvard Med. Sch., Boston, Mass.
bacteria; mutations; glycerin; enzymes; genetic mapping; genetics

GM-11989 RUND, JOHN V., Univ. Arizona, Tucson, Ariz.
metalloenzymes; decarboxylases; ligands; manganese; nickel; metal; functional groups; o-phenanthroline; enzymes substrate; ketoacids; proteins

GM-12022 CLEMENT, GERALD E., Harpur Col., State Univ. New York, Binghamton, N.Y.
proteases..pepsin; hydrolysis; chemical bonds..bond cleavage; enzymes substrate; reaction sites

GM-12029 AZARI, PARVIZ, Col. Sci., Arts, Colorado State Univ., Fort Collins, Colo.
metal complexes; conalbumin; iron; reaction sites; radiolabeled iodine; radiolabeled carbon; carboxymethylation; chemical structure--biological activity

GM-12052 TAKAGI, YASUYUKI, Sch. Med., Kyushu Univ., Fukuoka City, Japan
deoxyribonucleic acid; bacteria..Escherichia coli; enzymes; enzymes inhibitors; mitomycin C; ultraviolet rays; radiation effects; auxotrophs; chemical structure--biological activity

GM-12078 BOEZI, JOHN A., Col. Agr., Natural Sci., Michigan State Univ., East Lansing, Mich.
bacteria..Bacillus subtilis; messenger ribonucleic acid; genetics; chemical structure--biological activity; proteins

GM-12098 KOERNER, JAMES F., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
bacteria..Escherichia coli; nucleases..deoxyribonuclease; cell-free systems; chemical structure--biological activity

GM-12168 ECK, RICHARD, Natl. Biomedical Res. Fdn., Silver Spring, Md.
genetics..genetic coding; proteins; amino acid sequence; mathematical models

GM-12276 COUTSOGEORGOPOULOS, CHARALAMBOS, Roswell Park Mem. Inst., Buffalo, N.Y.
proteins; ribonucleic acid; messenger ribonucleic acid; soluble ribonucleic acid; oligonucleotides; synthesis; deoxyribopolynucleotides; peptide templates; molecular structure; bacteria..Escherichia coli; cell components ..ribosomes

GM-12277 IMAHORI, KAZUTOMO, Col. Gen. Educ., Univ. Tokyo, Tokyo, Japan
polypeptides; proteins; conformations (chemistry); gamma globulin; myeloma globulins; proteases..pepsin; serine; tyrosine

GM-12278 KIRSCH, JACK F., Col. Letters, Sci., Univ. California, Berkeley, Cal.
transsulfurases..thiosulfate transsulfurase; proteases.. papain; enzyme models; enzyme substrate; pi complexes; solvents; electron donors; chemical bonds; reaction sites; esters; imidazoles; functional groups; acids

GM-12279 JURTSHUK, PETER, Jr., Univ. Texas, Austin, Texas
oxidoreductases..β--hydroxybutyrate dehydrogenase; beta--hydroxybutyric acid; microorganisms; phospholipids; reaction sites; cell components

GM-12280 MALMSTROM, BO G., Univ. Gothenburg, Goteborg, Sweden
metalloenzymes; proteins; metal; binding; peptides; molecular structure

GM-12332 HALVORSON, H.O., Grad. Sch., Univ. Wisconsin, Madison, Wis.
bacteria..Bacillus cereus; cell differentiation; spores; growth, microorganisms; sporogenesis; ribonucleic acid; enzymes; proteins; genetics; chemical structure--biological activity; cell--free systems

GM-12344 HASELKORN, ROBERT, Univ. Chicago, Chicago, Ill.
proteins; bacteria..Escherichia coli; cell--free systems; viruses..bacteriophage T4; messenger ribonucleic acid; cell components..polysomes; transformation

GM-12359 ENNIS, HERBERT L., St. Jude Hosp , Memphis, Tenn.
antibiotics; proteins; ribonucleic acid; drugs resistance; cycloheximide; erythromycin; tetracycline; vernamycin; streptogramin; lincomycin; oleandomycin; cell components..microsomes; bacteria; fungi..yeasts

GM-12366 LARIS, PHILIP C., Col. Letters, Sci., Univ. California, Santa Barbara, Cal.
monosaccharides; blood cells..erythrocytes; membrane permeability and transport; cell components..cell membrane; iodoacetates; antimetabolites

GM-12395 BOCK, ROBERT M., Col. Agr., Univ. Wisconsin, Madison, Wis.
soluble ribonucleic acid; molecular structure; nucleotide sequence; fungi..yeasts

GM-12411 KURLAND, CHARLES G., Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.
cell components..ribosomes; adenosine monophosphate; polymers; soluble ribonucleic acid; molecular structure; proteins; enzymes

GM-12416 LUDLUM, DAVID B., Sch. Med., Yale Univ., New Haven, Conn.
alkylation; polynucleotides; synthesis; messenger ribonucleic acid; genetics..genetic coding; phosphotransferases..nucleoside diphosphate polynucleotide nucleotidyl transferase; methanesulfonic acid methyl ester; guanine; bacteria..Micrococcus lysodeikticus

GM-12419 TORALBALLA, GLORIA C., Hunter Col., New York, N.Y.
carbohydrases..a--amylase; chemical structure; pancreas; amino acid; organic compounds; urea; proteins

GM-12420 BERLIN, RICHARD D., Harvard Med. Sch., Boston, Mass.
purines; phosphorylases..pyrophosphorylases; nucleotides; bacteria..Bacillus subtilis; blood cells..neutrophil leukocytes; enzyme inhibitors; nucleic acids; phagocytosis; mutation; actinomycin; 8--hydroxyquinoline; chloramphenicol; reaction sites; cell components

GM-12121 KRUEGER, ROBERT C., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
deoxyribonucleic acid; enzymes; nucleoproteins; cell components..cell nucleus; cell components.. mitochondria; nucleases..deoxyribonuclease; solubility; molecular structure; histones

GM-12448 FREUNDLICH, MARTIN, Dartmouth Med. Sch., Hanover, N.H.
threonine; genetics..genetic coding; genetic mapping; bacteria..Salmonella typhimurium; enzyme inhibitors; amino acids; enzymes

GM-12449 McCARTHY, BRIAN J., Sch. Med., Univ. Washington, Seattle, Wash.
ribonucleic acid; messenger ribonucleic acid; cell components..cell nucleus; cell components.. cytoplasm; cell components..ribosomes; chemical structure--biological activity; cell differentiation; genetics; cell culture

GM-12474 PHILLIPS, ALVAH H., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
cell components..microsomes; cell components.. intracellular membrane; molecular structure; amino acids; fractionation

GM-12505 RYAN, CLARENCE A., Jr., Grad. Sch., Washington State Univ., Pullman, Wash.
enzyme inhibitors..chymotrypsin inhibitors; chemical structure--biological activity; proteases.. chymotrypsin; enzyme substrate complex

GM-12588 ELSON, DAVID, Weizmann Inst. Sci., Rehovoth, Israel
cell components..ribosomes; ribonucleic acid; soluble ribonucleic acid; nucleases..ribonuclease; nucleases..deoxyribonuclease; binding; proteins; starvation; sedimentation constants; bacteria.. Escherichia coli

GM-12589 CROTHERS, DONALD M., Grad. Sch., Yale Univ., New Haven, Conn.
deoxyribonucleic acid; nucleic acids denaturation; chemical bonds..bond cleavage; molecular structure; molecular rearrangement; bacteria..Escherichia coli; hydrodynamics; binding; dyes

GM-12614 HARRISON, WILLIAM H., Presbyterian-St. Luke's Hosp., Chicago, Ill.
catecholamines; oxidation--reduction; tautomerism; quinones; epinephrine; norepinephrine; reaction sites; instrumentation--methodology

GM-12642 YOKE, JOHN T., III, Sch. Sci., Oregon State Univ., Corvallis, Ore.
amine; oxidation; enzymes model; oxidases..amine oxidases; copper; metalloenzymes; metal complexes; electron charge distribution; electron transport

GM-12643 STARR, MORTIMER P., Grad. Sch., Univ. California, Davis, Cal.
bacteria..plant bacteria; phenazine; pigments; plants diseases; indigoidine; carotenoids; pectins; galacturonic acid; molecular structure; taxonomy; bacteria..Corynebacterium; bacteria..Xanthomonas; bacteria..Erwinia carotovora; carbohydrases..pectic enzymes

GM-12725 WOLFENDEN, RICHARD V., Princeton Univ., Princeton, N.J.
proteins; amino acid esters; polypeptides; metals; polymerization; polynucleotides; thermodynamics; equilibrium constants; phosphates..phosphoric esters; hydrolysis; amino acid--RNA ligases; soluble ribonucleic acid; aminohydrolases..adenosine deaminase; fungi..Aspergillus oryzae

GM-12743 CIRILLO, VINCENT P., Col. Arts, Sci., State Univ. New York, Stony Brook, L.I., N.Y.
sugar; cell components..cell membrane; fungi..yeasts; microorganisms; membrane permeability and transport; Pasteur effect

GM-12756 WEISBERGER, AUSTIN S., Sch. Med., Western Reserve Univ., Cleveland, Ohio
proteins; genetics..genetic coding; cell--free systems; ribonucleic acid; cell components.. ribosomes; blood cells..reticulocytes; hemoglobins; thalassemia; species; peptide templates; polypeptides..unnatural polypeptides; nucleotides.. unnatural nucleotides; myeloma globulins

GM-12768 ZUBAY, GEOFFREY L., Grad. Fac. Pure Sci., Columbia Univ., New York, N.Y.
proteins; soluble ribonucleic acid; messenger ribonucleic acid; cell components..ribosomes; genetics.. genetic coding; molecular structure; conformations (chemistry); nucleotides..unnatural nucleotides; formaldehyde

GM-12836 SRINIVASAN, P.R., Col. Phys., Surg., Columbia Univ., New York, N.Y.
nucleic acids; nucleosides (tides) bases; methylation; viruses..oncogenic viruses; neoplasms; carcinogenesis; transmethylases

GM-12837 LIENER, IRVIN E., Grad. Sch., Univ. Minnesota, St. Paul, Minn.
proteins; polymers; binding; functional groups; synthesis; sulfhydryls; mercury; disulfides

GM-12888 POGELL, BURTON M., Albany Med. Col., Union Univ., Albany, N.Y.
puromycin; fungi..Streptomyces; enzymes; proteolysis; molecular rearrangement; phosphatases..fructose 1,6--diphosphatase; bacteria..Escherichia coli; liver

GM-12891 WIXOM, ROBERT L., Sch. Med., Univ. Missouri, Columbia, Mo.
valine; microorganisms; dehydratases; plants

GM-12928 SCHWERT, GEORGE W., Univ. Kentucky Med. Cr., Lexington, Ky.
laboratory facilities; enzymes

GM-12944 HAMMES, GORDON G., Cornell Univ., Ithaca, N.Y.
enzyme complexes; enzyme substrate complex; enzyme inhibitors; thermodynamics; conformations (chemistry); nucleases..ribonuclease; aminotransferases..aspartate transaminase

GM-12971 BOHAK, ZVI, Weizmann Inst. Sci., Rehovoth, Israel
proteins; amino acids; molecular rearrangement; racemization; alkalies; nucleases..ribonuclease; proteases..pepsin

GM-13004 BROWN, GENE M., Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.
ribonucleic acid; deoxyribonucleic acid; methyl groups; reaction sites; nucleosides (tides) bases; ribose; cell components..ribosomes; embryology; HeLa cells; species

GM-13037 MEHLER, ALAN H., Sch. Med., Marquette Univ., Milwaukee, Wis.
proteins; soluble ribonucleic acid; amino acid--RNA ligases; chemical structure

GM-13064 HANSON, RICHARD S., Col. Med., Univ. Illinois, Chicago, Ill.
Krebs cycle; Krebs cycle inhibitors; growth, microorganisms; histogenesis; genetics..gene expression; genetic mapping; spores; enzyme substrate; bacteria.. Bacillus subtilis; bacteria..Escherichia coli; transformation

GM-13080 CONNELLY, JERALD L., Sch. Med., Univ. North Dakota, Grand Forks, N.D.
cell components..mitochondria; bioenergetics; oxidative phosphorylation; high energy compounds; ion exchange and transport; tissue respiration

GM-13155 ROLFE, RONALD E., Children's Cancer Res. Fdn., Inc., Boston, Mass.
deoxyribonucleic acid; genetics..chromosome replication; genetics..genes; bacteria..Escherichia coli; bacteria..Bacillus subtilis; stable isotope labeled

GM-13200 DE MOSS, JOHN A., Univ. California, La Jolla, Cal.
proteins; deoxyribonucleic acid; ribonucleic acid; cell components..ribosomes; enzymes; oxidoreductases..nitrate reductase; growth, microorganisms; amino acids; bacteria.. Escherichia coli; auxotrophs

GM-13236 LUBIN, MARTIN, Sch. Med., Harvard Univ., Boston, Mass.
bacteria..Escherichia coli; bacteria..Bacillus subtilis; auxotrophs; cell components..ribosomes; ribonucleic acid; proteins; potassium; glycerophosphates; lipids

HD-00056 WULFF, VERNER J., Masonic Med. Res. Lab., Utica, N.Y.
aging; ribonucleic acid; messenger ribonucleic acid; molecular structure; cell components..cell nucleus; tritium

(contd)

BIOCHEMISTRY (CONTD)

HD-00734 **BASILIO, CARLOS M., Inst. de Quimica Fisiologica, Santiago, Chile**
genetics..genetic coding; proteins; nucleotides..unnatural nucleotides; cell components.. ribosomes; pregnancy..placenta; polynucleotides

HD-00858 **SHAHANI, KHEM M., Grad. Col., Univ. Nebraska, Lincoln, Nebr.**
carbohydrases..lysozyme; milk; chemical structure--biological activity; fractionation; immunity; antibiotics

HD-01239 **KUN, ERNEST, Univ. California Med. Cr., San Francisco, Cal.**
enzymes substrate analogs; enzymes inhibitors; synthesis; neoplastic cells; oxidoreductases..malate dehydrogenase; oxidoreductases..isocitrate dehydrogenase; NADP

HD-01244 **JONES, MARY E., Brandeis Univ., Waltham, Mass.**
carbamyl phosphate; phosphotransferases..ATP : carbamate phosphotransferase; phylogeny; liver; nucleic acids; transcarbamylases; phosphatases..carbamyl phosphate hydrolases; amidases..urease; buffers; phosphates; histogenesis; carbon dioxide; ammonia; phosvitin

HD-01255 **HERRMANN, ROBERT L., Sch. Med., Boston Univ., Boston, Mass.**
pyrimidine; enzymes; fungi..Neurospora crassa 38503; mutations; orotic acid; uracil; radiolabeled carbon; nucleic acids; FAD; bacteria..Zymobacterium oroticum; dehydrogenases..dihydro-orotate dehydrogenase; reaction sites; binding; transcarbamylases; β-alanine; enzymes inhibitors

HD-01269 **BLUM, JACOB J., Med. Sch., Duke Univ., Durham, N.C.**
cell division..synchronous cell division; cell culture; cell division, mitosis; protozoa, Astasia longa; 8-azaguanine; nucleotides; ribonucleic acid; radiolabeled carbon; fractionation

HD-01303 **LOVE, DAVID S., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
embryology; myogenesis; glycogenolysis; phosphotransferase..ATP; phosphorylase phosphotransferase; phosphorylases; endocrine glands; muscle contraction; muscles..skeletal muscle; growth

HD-01305 **NEWBURGH, ROBERT W., Grad. Sch., Oregon State Univ., Corvallis, Ore.**
enzymes; growth; cell differentiation; NADP; electron microscopy; phospholipids

HD-01489 **DI PIETRO, DAVID L., Sch. Med., Temple Univ., Philadelphia, Pa.**
carbohydrates; glucose; fructose; phosphorylation; enzymes; pregnancy..placenta; phosphotransferases.. ATP : D--hexose 6--phosphotransferase; glucose--6--phosphates

HD-01838 **YCAS, MARTYNAS, Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.**
gamma globulins; Bence--Jones protein; molecular structure; amino acid sequence; immunity..autoimmunity

HE-00458 **GREEN, DAVID E., Univ. Wisconsin, Madison, Wis.**
cell components..mitochondria; electron transport; enzymes; heart..myocardium; oxidative phosphorylation

HE-01322 **STOTZ, ELMER H., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.**
chemical structure; cytochrome; dehydrogenases..succinate dehydrogenase; heart..myocardium; hemins; lipids; oxidases; oxidation-reduction; potentials; proteins

HE-01995 **SINGER, THOMAS P., Henry Ford Hosp., Detroit, Mich.**
oxidation; heart; tissue; flavoprotein enzymes; molecular structure; NAD linked enzymes; liver; cell components.. mitochondria; reductases..NADH2 cytochrome C reductase; chemical structure

HE-02080 **VON KORFF, RICHARD W., Univ. Minnesota Hosps., Minneapolis, Minn.**
tissue respiration; glycolysis; adenosine phosphates; cell components..mitochondria; instrumentation; Pasteur effect; enzymes; Krebs cycle

HE-02102 **DALLAM, R. DUNCAN, Sch. Med., Univ. Louisville, Louisville, Ky.**
enzymes; cell components..mitochondria; adenosine triphosphate; high energy compounds; bishydroxycoumarin; thyroxine; oxidative phosphorylation

HE-02319 **MEISTER, ALTON, Sch. Med., Tufts Univ., Boston, Mass.**
amides; enzymes; fungi..molds; lysine; oxidases..amino acid oxidase; peptides

HE-02520 **DAVIES, ROBERT E., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.**
adenosine triphosphate; high energy compounds; muscle contraction; phospholipids; phosphoproteins

HE-02558 **SCHROEDER, WALTER A., California Inst. Tech., Pasadena, Cal.**
amino acid sequence; hemoglobin; fetus; peptides; molecular structure; chromatography; catalase; peroxidases..lactoperoxidase

HE-02751 **PETERS, THEODORE, Jr., Mary Imogene Bassett Hosp., Cooperstown, N.Y.**
cell components; albumins..serum albumins; liver; radiolabeled; amino acid; chemical structure; fractionation

HE-02970 **JOHNSTON, ROBERT B., Sch. Arts, Sci., Univ. Nebraska, Lincoln, Nebr.**
thioesters; amino acid esters; chemical structure; enzymes; molecular condensations; peptides; enzymes substrate complex

HE-03599 **NODA, LAFAYETTE, Sch. Med., Dartmouth Col., Hanover, N.H.**
reaction sites; phosphotransferases..ATP : creatine phosphotransferase; sulfhydryls

HE-04139 **TCHEN, TCHE-TSING, Grad. Sch., Wayne State Univ., Detroit, Mich.**
cholesterol; steroid hormones; cell components..microsomes; cell components..mitochrondria; enzymes; ACTH; chemical structure; oxygenases

HE-04762 **GALLOP, PAUL M., Albert Einstein Sch. Med., Yeshiva Univ., Bronx, N.Y.**
proteins; collagen; molecular structure; chemical bonds; carboxyl groups; Lossen rearrangement; polypeptides; cyclization; pyrrolidones; hydroxamic acid; gelatin; proteases..trypsin; polyglutamic acid; proteases.. collagenase; glycoproteins; glutamine

HE-04852 **KING, TSOO E., Grad. Sch., Oregon State Col., Corvallis, Ore.**
electron transport; cell components..mitochondria; respiratory enzymes; heart

HE-05457 **MACKLER, BRUCE, Sch. Med., Univ. Washington, Seattle, Wash.**
copper; electron transport; embryo; heart..myocardium; lipids; NAD; oxidation; thyroxine

HE-05726 **BENDER, MYRON L., Sch. Med., Northwestern Univ., Evanston, Ill.**
spectrometry; enzyme models; proteases..acyl chymotrypsins

HE-06009 **KALF, GEORGE F., Seton Hall Col. Med., Jersey City, N.J.**
proteins; cell components..mitochondria; heart; deoxyribonucleic acid; enzymes

HE-06079 **CAUGHEY, WINSLOW S., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
heme; chemical structure; heart..myocardium; cell components..mitochondria; oxidoreductases..cytochrome oxidases; metalloporphyrins; porphyrins; ligands

HE-06088 **PENNIALL, RALPH, Sch. Med., Univ. North Carolina, Chapel Hill, N. C.**
oxidative phosphorylation; cell components..cell nucleus; liver; enzymes

HE-06400 **HILL, ROBERT L., Duke Univ. Med. Cr., Durham, N.C.**
amino acid; chemical structure; hemoglobin; myoglobin; peptides; proteins

HE-06450 **LEVINE, WALTER G., Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.**
ceruloplasmin; enzymes; proteins; copper; binding; oxidoreductases; phenol oxidases

HE-06531 **JONXIS, J.H.P., State Univ., Groningen, The Netherlands**
molecular structure; hemoglobin; genetics; amino acids; tritium; radiolabeled carbon; infant human..newborn

HE-06950 **BARTLETT, GRANT R., Lab. Comparative Biochemistry, San Diego, Cal.**
blood cells..erythrocytes; glycolysis; nucleotides; radiolabeled phosphorus; radiolabeled carbon

HE-07103 **JACOBS, EARL E., Stanford Univ., Stanford, Cal.**
cell components..mitochondria; cytochrome C; electron transport; liver; oxygen; quinones

HE-07769 **SHAW, ELLIOTT N., Sch. Med., Tulane Univ., New Orleans, La.**
proteases..trypsin; enzymes inhibitors..trypsin inhibitors; reaction sites; chemical structure--biological activity

HE-07827 **LEMBERG, RUDOLF, Inst. Med. Res., Royal North Shore Hosp. of Sydney, Crows Nest, N.S.W., Australia**
blood cells..leukocytes; catalase; chemical structure--biological activity; chlorins; fractionation; hemeproteins; milk; molecular structure; oxidases..cytochrome oxidases; peroxidases; tetrapyrroles

HE-07907 **LEVY, ROBERT S., Sch. Med., Univ. Louisville, Louisville, Ky.**
proteins; lipoproteins..serum lipoproteins; molecular structure; amino acid sequence

HE-08235 **HARRIS, JOHN B., Univ. California Med. Cr., San Francisco, Cal.**
membrane permeability; adenosine 3'-5' monophosphate; phosphodiesterases; phosphorylases; electrolytes; hydrochloric acid; stomach..gastric juice; tissue; oxygen consumption

HE-08299 **KLOTZ, IRVING M., Col. Arts, Sci., Northwestern Univ., Evanston, Ill.**
amino acid sequence; binding; fractionation; functional groups; hemoerythrin; molecular structure; oxygen; oxygen transport

HE-08344 **FRIEDEN, EARL, Florida State Univ., Tallahassee, Fla.**
chemical structure--biological activity; copper; enzymes; enzymes models; functional groups; hemoglobin; metal complexes

HE-08568 **JEDEIKIN, LILLIAN A., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.**
heart conduction system..atrioventicular node; heart.. myocardium; muscle..skeletal muscle; glycogen; glycosyltransferases..UDP glucose; D-glucose-6-phosphate 1-glycosyltransferase; exercise; fasting; insulin; diabetes; reaction sites, chemistry; radiolabeled carbon

HE-08627 **NEVE, RICHARD A., Seattle Univ., Seattle, Wash.**
enzymes; iron; protoporphyrins; proteins; metal chelates; blood cells..erythrocytes; globins

HE-08727 SCANU, ANGELO M., Sch. Med., Univ. Chicago, Chicago, Ill.
lipoproteins..plasma lipoproteins; chylomicrons; proteins; chemical structure--biological activity; phospholipids; fats; diet; sex hormones; metabolic diseases; congenital abnormalities; hyperlipemia

HE-08820 RAKITA, LOUIS, Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
heart..myocardium; cell components..mitochondria; fatty acids; synthetases; coenzyme A..acetyl--coenzyme A; diet; bacteria..Enterobacteria; germ--free; infant animals.. newborn; species; primates..monkeys

HE-08837 LOWE, HARRY J., Millard Fillmore Hosp., Buffalo, N.Y.
gas chromatography; acid-base equilibrium; carbon dioxide tension; temperature; diagnostic tests

HE-09055 BATT, C. WILLIAM, BROTHER, Col. Arts, Sci., Manhattan Col., Bronx, N.Y.
blood coagulation..thrombin; reaction sites; proteases; molecular weight; amino acid sequence; histidine; tyrosine; methionine; serine; aspartic acid; glutamates; tryptophan

HE-09544 MUELLER, HELMUT, Mellon Inst., Pittsburgh, Pa.
muscle proteins; chemical structure--biological activity; enzymes..isoenzymes; reaction sites; hydrogen bond; molecular size; muscle contraction

HE-09571 BROWN, HARRY D., Univ. Texas Med. Br., Galveston, Tex.
phosphatases..adenosine triphosphatase; chemical structure--biological activity; conformations (chemistry); cardiac glycosides; membrane permeability and transport; enzyme models

HE-09741 WHARTON, DAVID C., Sch. Med., Univ. Virginia, Charlottesville, Va.
oxidoreductases..cytochrome oxidases; chromophores; copper; reaction sites; cell components..mitochondria; plants; microorganisms; chemical structure; heart

MH-07023 AWAPARA, JORGE, Rice Univ., Houston, Tex.
brain; decarboxylases..amino acid decarboxylases; pyridoxal phosphate; enzymes inhibitors; gamma aminobutyric acid; serotonin; taurine; reaction sites

MH-08971 KRALL, ALBERT R., Sch. Med., Univ. Miami, Coral Gables, Fla.
cell components..mitochondria; nerves..neurons; brain; oxidative phosphorylation; tissue respiration; membrane permeability and transport; psychotropic drugs; sodium; potassium; magnesium; calcium; phosphates

MH-10280 YASUNOBU, KERRY T., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii
mental disorders; metalloenzymes; oxidoreductases ..amine oxidase; oxidoreductases..monoamine oxidase; proteases; bacteria..Bacillus subtilis; hydroxylases..hydroxyphenylpyruvate hydroxylase; functional groups; copper; zinc; pyridoxal phosphate; sulfhydryls

NB-00226 WAELSCH, HEINRICH B., Col. Phys., Surg., Columbia Univ., N.Y.C.
amidases..transglutaminase; chemical structure..biological activity; glutamine; insulin; peptides; proteins

NB-03527 MOSS, GERALD, Albany Medical Col., Albany, N.Y.
brain; brain ischemia and hypoxia; glucose; hexose monophosphate pathway; hypoglycemia; insulin; radiolabeled carbon; steroids; uremia

NB-04127 TALBERT, PRESTON T., Grad. Sch., Howard Univ., Washington, D.C.
aldehydes; gamma-aminobutyric acid; aminotransferase.. gamma-aminobutyric acid-α-ketoglutarate transaminase; brain; decarboxylation; dehydrogenases..ketoglutarate dehydrogenase; heat lability; hydrogen-ion concentration; α-ketoglutarate; molecular condensations; oxidation-reduction; radiolabeled carbon; succinic semialdehyde thiamine pyrophosphate

NB-04146 MIRANDA, MAURY, Univ. Brazil, Rio de Janeiro, Brazil
bioassay; carnitine; electric organ; electrophysiology; fungi..Candida bovina; mutations; nerves; survey

NB-04545 FITCH, WALTER M., Univ. Wisconsin Med. Sch., Madison, Wis.
bacteria..Pseudomonas fluorescens; choline esterases; growth, microorganisms; choline; acetylcholine; glycine; enzymes inhibitors; neostigmine; chemical structure--biological activity; reaction sites

NB-04663 WEINER, NORMAN, Sch. Med., Harvard Univ., Boston, Mass.
adrenal medulla; cell components..granules; proteins; molecular weight; amino acid; catecholamines; adenosine triphosphate; magnesium; radiolabeled carbon; calcium

NB-04781 CAPUTTO, RANWEL, Univ. Nacional de Cordoba, Cordoba-Argentina, S.A.
neuramin-lactose-sulfate; chemical structure; radiolabeled carbon; radiolabeled sulfur

NB-05196 ERDOS, ERVIN G., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
proteases..carboxypeptidases; blood..plasma; bradykinin; peptides; enzyme substrate; bioassay

NB-05223 COHEN, HAROLD P., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
glutamates; brain..cerebral cortex; cell components.. mitochondria; Krebs cycle; oxidoreductases..glutamic dehydrogenase; aminotransferases..aspartate transaminase; glucose; radiolabeled carbon

NB-05270 MOORE, BLAKE W., Sch. Med., Washington Univ., St. Louis, Mo.
proteins; brain; chemical structure; cell differentiation; enzymes; congenital abnormalities; tritium; primates.. monkeys

NB-05433 CAIN, DENNIS F., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
ribonucleic acid; proteins; brain..cerebral cortex; cell components; electrostimulus; phosphotransferases.. RNA nucleotidyltransferase; puromycin; actinomycin D; 8--azaguanine; 6--azauridine

NB-05463 STEWART, MARK A., Sch. Med., Washington Univ., St. Louis, Mo.
histogenesis; nervous system..optic nerve; eye.. retinal ganglion; brain..geniculate body lateral; nerves..neurons; ribonucleic acid; lipids; choline esterase..acetylcholinesterase; transacylases.. choline transacylase; aminotransferases..gamma--aminobutyric acid--alpha--ketoglutarate; aldolases; oxidoreductases..dehydrogenases; eye; sensory deprivation; photostimulus

NB-05687 ABRAHAMSON, EDWIN W., Case Inst. Tech., Cleveland, Ohio
rhodopsin; chemical structure; retinene; binding; lysine; Schiff bases

NB-06034 MIECH, RALPH P., Brown Univ., Providence, R.I.
nucleotides; phosphotransferases..nucleoside phosphates phosphotransferases; purines; pyrimidines; ribonucleic acid; radiolabeled carbon; brain

NB-06043 PITTS, FERRIS N., Jr., Sch. Med., Washington Univ., St. Louis, Mo.
gamma--aminobutyric acid; enzymes; enzyme substrate; nerves..neurons; nervous system..central nervous system

RH-00221 RUPERT, CLAUD S., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
deoxyribonucleic acid; enzymes; microorganisms; photochemistry; ultraviolet rays

RH-00305 GORIN, GEORGE, Oklahoma State Univ. Res. Fdn., Stillwater, Okla.
radiation protection; radiation sensitivity; cysteamine; disulfide bonds; glutathione; albumins.. serum albumins; cystamine; dehydrogenases..alcohol dehydrogenase; synthesis; radiation protection drugs; thiols

BIOPHYSICS AND BIOPHYSICAL CHEMISTRY

AI-01354 ANDREWS, ARTHUR C., Grad. Sch., Kansas State Univ., Manhattan, Kans.
antihistamines; bacteria; heparin; histamine; hypersensitivity; metal complexes; molecular structure; stability constants; thermodynamics; x-ray structure analysis

AI-01466 BEEMAN, WILLIAM W., Grad. Sch., Univ. Wisconsin, Madison, Wis.
molecules..macromolecules; viruses; globular proteins; myoglobin; hemoglobin; solutions; x-ray structure analysis; molecular structure

AI-01473 SCHERAGA, HAROLD A., Cornell Univ., Ithaca, N.Y.
molecular structure; proteins; hydrogen bond; carbohydrases..lysozyme; nucleases..ribonucleases; insulin

AI-01482 CANN, JOHN R., Univ. Colorado Med. Cr., Denver, Colo.
blood proteins; bovine serum albumin; isomers; fatty acids; gamma globulin; mathematical models; computer analysis; muscle proteins; myoglobin; hemoglobin; respiratory enzymes; proteins denaturation; zinc; immunology

AI-02028 LEVINTHAL, CYRUS, Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.
phosphomonoesterases..alkaline phosphatase; bacteria.. Escherichia coli; mutations; cell components; enzymes; messenger ribonucleic acid

AI-03233 THOMAS, CHARLES, Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
viruses..bacteriophage; deoxyribonucleic acid; molecular structure; genetics..genes

AI-03399 KILKSON, REIN, Grad. Sch., Yale Univ., New Haven, Conn.
viruses..bacteriophage; x-ray structure analysis; deoxyribonucleic acid

AI-04255 SINGER, S.J., Univ. California, La Jolla, Cal.
conjugates; electron microscopy; ferritin; immunology.. antibodies; immunology..antigen-antibody reactions; staining

AI-04769 RINEHART, KENNETH L., Jr., Grad. Sch., Univ. Illinois, Urbana, Ill.
antibiotics; molecular structure; mass spectrometry; tetrin; cyclopropene carboxylic acids; seeds; oil; stable isotope labeled carbon; aromatic compounds; alkaloids

AI-04873 MAXFIELD, MYLES, Univ. Southern California, Los Angeles, Calif.
virus inhibitors; mucoproteins; urinary tract; pancreatic cystic fibrosis; molecular structure; fractionation; molecular size

AI-05561 CHAO, FU-CHUAN, Stanford Res. Inst., Menlo Park, Cal.
bacteria..Escherichia coli; cell components..ribosomes; regeneration; magnesium; growth, microorganisms; fractionation; dehydratases..tryptophan synthetase; protozoa..Entamoeba histolytica; growth factors

AI-05586 MEEKS, FRANK R., Col. Arts, Sci., Univ. Cincinnati, Cincinnati, Ohio
gel diffusion technique; thermodynamics; solubility; barium sulfate; copper sulfide; strontium sulfate; immunodiffusion test; precipitation

(contd)

LISTING OF GENERAL RESEARCH AREAS

BIOPHYSICS AND BIOPHYSICAL CHEMISTRY (CONTD)

AI-05818 INCARDONA, NINO L., Mellon Inst., Pittsburgh, Pa.
viruses..bacteriophage phi chi 174; viruses..Bromegrass mosaic virus; nucleic acids; molecular rearrangement; virulence, microorganisms; chemical structure--biological activity; host--virus; virus capsid; functional groups; proteins

AM-01320 LOW, BARBARA W., Col. Phys., Surg., Columbia Univ., N.Y.C.
heavy metals; insulin; oxytocin; peptides; platinum; proteins; radioisotopes..uranium; x-ray structure analysis

AM-01825 BENSUSAN, HOWARD B., Benjamin Rose Hosp., Cleveland, Ohio
amino acid; chemical structure; collagen; fibrogenesis; molecular structure; polymers; reaction rates (chemistry); tropocollagen

AM-02299 FOSTER, ROBERT J., Grad. Sch., Washington State Univ., Pullman, Wash.
binding; enzymes inhibitors..chymotrypsin inhibitors; equilibrium dialysis; proteases..chymotrypsin; proteins

AM-02449 PERLMANN, GERTRUDE E., Rockefeller Inst., New York, N.Y.
proteases..pepsin; proteases..pepsinogen; chemical structure--biological activity; molecular structure; immunology; amino acid

AM-02457 FRIED, MELVIN, Col. Med., Univ. Florida, Gainesville, Fla.
blood..serum; lipoproteins..serum lipoproteins; proteins; proteolysis

AM-02492 AMBERSON, WILLIAM R., Marine Lab., Woods Hole, Mass.
actomyosin; delta protein; enzymes; heart..myocardium; muscle; muscle..skeletal muscle; muscle contraction; myogen

AM-02493 CRAIG, LYMEN C., Rockefeller Inst., N.Y.C.
chromatography; counter-current fractionation; electrophoresis; hemoglobin; membrane permeability; molecular shape; molecular structure; nucleic acids; parathyroid hormones; proteins; ultracentrifugation

AM-02528 LOVE, WARNER E., Sch. Arts, Sci., Johns Hopkins Univ., Baltimore, Md.
x--ray diffraction; heme--proteins; phosphocreatine; hemoglobin; chlorohemin; molecules..macromolecules; molecular structure; crystallography

AM-02612 PRAGER, MORTON D., Wadley Res. Inst., Blood Bank, Dallas, Tex.
blood proteins..serum proteins; sulfhydryls; enzymes; hydrolysis; blood groups; immunology..antibodies; polypeptides; reaction sites

AM-02633 COHEN, CAROLYN, Children's Cancer Res. Fdn., Boston, Mass.
blood coagulation..fibrin; blood coagulation..fibrinogen; molecular structure; muscle; muscle proteins; x-ray diffraction

AM-02647 DE VILLAFRANCA, GEORGE W., Smith Col., Northampton, Mass.
muscle proteins; muscle contraction; myosin; actomyosin; actin; relaxin; phosphotransferases

AM-02648 PESKIN, JAMES C., Univ. Rochester, Rochester, N.Y.
aromatic amino acids; nucleotides; spectrometry; photochemistry; instrumentation; molecular structure; polarization optics; cryoscopy

AM-02649 LEMBERGER, AUGUST P., Sch. Phar., Univ. Wisconsin, Madison, Wis.
coalescence; emulsions; heat; injections; lecithin; liquid flow; phospholipids; potentials..zeta potential; surface active agents; surface properties

AM-02734 QUAGLIANO, JAMES V., Fla. State Univ., Tallahassee, Fla.
amino acids; proteins; metal complexes; ligands; molecular structure; chemical bonds; betaine; ampholytes

AM-02809 RICE, ROBERT V., Mellon Inst., Pittsburgh, Pa.
proteins; collagen; molecular structure; muscle.. myofibrils; muscle proteins

AM-02830 KRIMM, SAMUEL, Sch. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
proteins; feathers; keratins; mutations; x-ray diffraction; infrared spectroscopy; amino acid; molecular structure; polypeptides; conformations (chemistry)

AM-02831 TAYLOR, JOHN F., Sch. Med., Univ. Louisville, Louisville, Kentucky
Bohr effect; globins; heme; hemoglobin; sulfhydryls

AM-02877 CORWIN, ALSOPH H., Faculty Philosophy, Johns Hopkins Univ., Baltimore, Md.
metal complexes; iron; porphyrins; synthesis; stability constants; heme; chemical bonds; hemoglobin; ferroporphyrins; enzymes

AM-02884 PATTERSON, A.L., Inst. Cancer Res., Philadelphia, Pa.
stereochemistry; dehydrates..citrate (isocitrate) hydrolyase; citrates..isocitrate; aconitates; glycolates; x--ray structure analysis; computer programming; thiosemicarbazones; crystallography; enzyme substrate; metal complexes

AM-02896 BEEBE, RALPH A., Amherst Col., Amherst, Mass.
bone; polar molecules; surface properties; hydroxyapatite; adsorption; gases

AM-03102 BONNER, JAMES, California Inst. Tech., Pasadena, Cal.
cell components..ribosomes; nucleoproteins; cell components..cell nucleus; deoxyribonucleic acid; fractionation; ribonucleic acid

AM-03187 GEORGE, PHILIP, Col. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.
molecular structure; oxidation--reduction; hydrogen--ion concentration; equilibrium constants; cytochrome; methemoglobin; ligands; heme--proteins; hemoglobin; metal complexes; cytochrome C

AM-03188 TABORSKY, GEORGE, Sch. Med., Yale Univ., New Haven, Conn.
egg yolk; phosvitin; phosphorus; phosphoproteins; chemical structure

AM-03226 DYER, HUBERT J., Brown Univ., Providence, R.I.
cell components..cell wall; cell division..mitosis; cytology; germ cells; histogenesis; plants; radiation effects; ultrasonics

AM-03288 JENSEN, LYLE H., Sch. Med., Univ. Washington, Seattle, Wash.
molecular structure; adenosine diphosphate; adenosine triphosphate; guanosine monophosphate; polyuridylic acid

AM-03698 TULINSKY, ALEXANDER, Yale Univ., New Haven, Conn.
x-ray structure analysis; porphyrins; metal; crystallography; proteases..chymotrypsin; functional groups; molecular structure

AM-03748 SPRUNT, DOUGLAS H., Sch. Med., Univ. Tennessee, Memphis, Tenn.
polysaccharides; intervertebral disks; aging; polymerization

AM-03749 LYONS, HAROLD, Southwestern Col., Memphis, Tenn.
mucopolysaccharides; intervertebral disks; molecular structure; age; hernia; sex difference; proteins; molecular weight

AM-03942 HARKER, DAVID, Roswell Park Mem. Inst., Buffalo, N.Y.
crystallography; dyes; enzymes; globular proteins; molecular structure; nucleases..ribonucleases; x-ray diffraction

AM-04256 EDELMAN, GERALD M., Rockefeller Inst., N.Y.C.
chemical structure; immunology..antibodies; instrumentation-methodology; polypeptides; spectrophosphorimetry; spectrophotofluorometry

AM-04257 DJERASSI, CARL, Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.
alkaloids; functional groups; indoles; mass spectrometry; polycyclic compounds; stereochemistry; steroids

AM-04349 HARRINGTON, WILLIAM F., Johns Hopkins Univ., Baltimore, Md.
actin; collagen; copolymers; gelatin; glycine; molecular structure; myosin; physical chemistry; polypeptides; proline; proteolysis

AM-04466 SJOSTRAND, FRITIOF S., Col. Letters, Sci., Univ. California, Los Angeles, Cal.
muscle..skeletal muscle; muscle contraction; muscle.. myofibrils; muscle..sarcosomes; actin; electron microscopy

AM-04576 TANFORD, CHARLES, Duke Univ. Med. Cr., Durham, N.C.
proteins; conformations (chemistry); thermodynamics; heme--proteins; β--lactoglobulin; gamma globulin; immunology..antibodies; proteases..chymotrypsin; hemoglobin; amino acids

AM-04762 LOWEY, SUSAN, Children's Cancer Res. Fdn., Boston, Mass.
muscle proteins; myosin; molecular structure

AM-04763 BALDWIN, ROBERT L., Sch. Med., Stanford Univ., Palo Alto, Cal.
adenine; 5-bromouracil; copolymers; deoxyribonucleic acid; deoxyribonucleic acid replication; enzymes; nucleic acids; proteins; thymine

AM-04764 GEORGE, PHILIP, Col. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.
thermodynamics; radiolabeled phosphorus; ionization constants; equilibrium constants; pyrophosphates; adenosine triphosphate; adenosine diphosphate; adenosine monophosphate; metal complexes; magnesium

AM-04806 PEPE, FRANK A., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
muscle..skeletal muscle; immunology..antibodies; molecular structure; stable isotope labeled mercury; muscle proteins

AM-04810 EBASHI, SETSURO, Sch. Med., Univ. Tokyo, Tokyo, Japan
adenosine triphosphate; calcium; binding; muscle.. sarcoplasmic reticulum; muscle relaxation; tropomyosin

AM-04852 KING, MURRAY V., Massachusetts Gen. Hosp., Boston, Mass.
crystallography; glucagon; pancreas; molecular structure; x--ray diffraction; isomorphous substitution; heavy metals; binding; stereochemistry

AM-05177 GOSTING, LOUIS J., Grad. Sch., Univ. Wisconsin, Madison, Wis.
solutions..multicomponents solutions; diffusion; electrolytes; non--electrolytes

AM-05217 MARTELL, ARTHUR E., Illinois Inst. Tech., Chicago, Ill.
amino acid; ion; metal; metal chelates; pyridine aldehydes; pyridoxal; Schiff bases; solutions; stability constants; transamination

AM-05225 LATTIMER, JOHN K., Col. Phys., Surg., Columbia Univ., N.Y.C.
instrumentation-methodology; telemetering; ureter; urinary bladder; urinary tract disorders

AM-05680 NORDSCHOW, CARLETON D., Sch. Med., State Univ. Iowa, Iowa City, Iowa
collagen diseases; thermodynamics; collagen; molecular

AM-05785 **FLEISCHER, EVERLY B.**, Grad. Sch. Chem., U. Chicago, Chicago, Illinois
porphyrins; metalloporphyrins; x-ray structure analysis; metal complexes

AM-05821 **BLUMENFELD, OLGA O.**, Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.
collagen; molecular structure

AM-05853 **LUMRY, RUFUS W.**, Univ. Minnesota, Minneapolis, Minn.
conformations (chemistry); binding; proteases..chymotrypsin; proteins denaturation; dehydratases..D--2--phosphoglycerate hydrolyase; enzyme substrate; metal; enzyme substrate complex

AM-05895 **EHRENBERG, ANDERS**, Karolinska Inst., Stockholm, Sweden
flavoprotein enzymes; electron spin resonance spectroscopy; heme-proteins; temperature; free radicals; seeds; cell components..chloroplasts; ionizing radiation; photochemistry

AM-06165 **DREIZEN, PAUL**, Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.
hemoglobin; myosin; hemoglobin--S

AM-06231 **EYRING, EDWARD M.**, C. Letters, Sci., Univ. Utah, Salt Lake City, Utah
enzymes; temperature-jump method; phosphotransferases.. luciferase; luciferin; hydrogen bond

AM-06518 **YAMAZAKI, ISAO**, Hokkaido Univ., Sapporo, Japan
oxidation; semiquinones; potentials; reaction rates (chemistry); chemical structure--biological activity; radiolabeled; spectrophotometry; electron paramagnetic resonance

AM-06519 **MASLEN, E.N.**, Univ. Western Australia, Nedlands, Western Australia
carbohydrases..lysozyme; x-ray structure analysis; molecular structure; amino acid

AM-06835 **LEVEDAHL, BLAINE H.**, Col. Letters, Sci., Univ. California, Los Angeles, Cal.
muscle proteins; optical rotatory dispersion; molecular volume; actomyosin; actin; myosin; adenosine triphosphate; muscle contraction; conformations (chemistry)

AM-06847 **KAPLAN, ERVIN**, Veterans Admin. Hosp., Hines, Ill.
membrane models; membrane permeability and transport; biomathematics; radioisotopes; monitoring; water-electrolyte balance; binding; electrolytes; blood proteins..serum proteins; computer analysis

AM-06940 **KOWALSKY, ARTHUR**, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
carbohydrases..α-amylase; cytochrome C; dehydrogenases..alcohol dehydrogenase; dehydrogenases.. lactate dehydrogenases; dehydrogenases..malate dehydrogenase; enzymes substrate complex; heme-proteins; metal; nuclear magnetic resonance; nucleases..ribonucleases; proteases..chymotrypsin; proteases..chymotrypsinogen; proteases..trypsin; proteins; proteins denaturation; temperature

AM-06941 **GORIN, GEORGE**, Oklahoma State Univ. Agr., Applied Sci., Stillwater, Okla.
disulfides; chemical bonds..bond cleavage; proteins; carbohydrases..lysozyme; proteins denaturation; reaction rates (chemistry); sulfites; mercury; sulfur

AM-07172 **HOLLAND, R.F.**, Cornell Univ., Ithaca, N.Y.
blood cells..erythrocytes; blood cells..leukocytes; fats; nephelometry; blood..plasma; instrumentation; microorganisms; growth, microorganisms; molecular size; globulins

AM-07300 **BLOUT, ELKAN R.**, Harvard Med. Sch., Boston, Mass.
synthesis; polypeptides..unnatural polypeptides; amino acid sequence; proteins; molecular structure; chemical structure--biological activity

AM-07506 **DANDLIKER, WALTER B.**, Scripps Clinic, Res. Fdn., La Jolla, Cal.
immunology..antigen-antibody reactions

AM-07577 **WEBER, GREGORIO**, Univ. Illinois, Urbana, Ill.
macromolecules; chemical structure--biological activity; laboratory facilities; sphingolipids; lipopolysaccharides; antibiotics; proteins; nucleic acids; polysaccharides; organic acids; heme; flavoprotein enzymes; enzymes; cyclic functions

AM-07587 **YUSEM, MILTON**, Col. Phar., Univ. Illinois, Chicago, Ill.
fluorometry; gastrin; histamine; instrumentation-methodology

AM-07635 **ZOBEL, C. RICHARD**, Sch. Med., State Univ. New York, Buffalo, N.Y.
meromyosin; molecular structure; muscle..myofibrils; muscle..skeletal muscle; myosin

AM-07718 **SORBY, DONALD L.**, Sch. Pharm., Univ. California, San Francisco, Cal.
adrenal cortex hormones; albumins..serum albumins; binding; reaction sites; stereochemistry; thermodynamics

AM-07853 **ENGLANDER, S. WALTER**, Dartmouth Med. Sch., Hanover, N.H.
collagen; deoxyribonucleic acid; fractionation; immunology..antibodies; instrumentation-methodology; molecular structure; molecules..macromolecules; myosin; tritium

AM-07963 **HUTCHENS, JOHN O.**, Univ. Chicago, Chicago, Ill.
proteins; amino acid; protozoa..Chilomonas; fungi.. Saccharomyces cerevisiae; bacteria..Escherichia coli; enzymes substrate; cell components..protoplasm; growth, microorganisms; microbial culture; microorganisms; thermodynamics

AM-08062 **STERN, MALVIN D.**, Sch. Med., Univ. Maryland, Baltimore, Md.
actin; adenosine triphosphate; calcium; hydrogen-ion concentration; laboratory facilities; magnesium; molecular weight; muscle..myofibrils; muscle contraction; muscle relaxation; myosin; polymerization

AM-08231 **MATTOCKS, ALBERT**, Col. Pharm., Univ. Michigan, Ann Arbor, Mich.
sodium; uric acid; salts; crystallization; gout; arthritis; therapy evaluation

AM-08303 **TONOMURA, YUJI**, Osaka Univ., Nakanoshima, Osaka, Japan
muscle contraction; myosin; phosphatases..adenosine triphosphatase; reaction sites; molecular structure; amino acid; adenosine triphosphate analogs; actin; thermodynamics; phosphorylation; phosphotransferases..ATP: creatine phosphotransferase; binding

AM-08348 **DAVIS, DONALD G.**, Louisiana State Univ., New Orleans, La.
electron transport; reaction rates (chemistry); ligands; metalloporphyrins; imidazoles; oxidation-reduction

AM-08437 **WALTON, ALAN G.**, Case Inst. Technology, Cleveland, Ohio
bone; minerals; biological models; collagen; calcification; crystallization; calcium phosphate; amino acids; polysaccharides; surface properties

AM-08464 **KATCHALSKI, EPHRAIM**, Weizmann Inst. of Science, Rehovoth, Israel
amino acid; polymers; synthesis; polypeptides.. unnatural polypeptides; molecular structure; conformations (chemistry); chemical bonds; hydrogen bond; hydrophobic bonds

AM-08465 **SCHERAGA, HAROLD A.**, Cornell Univ., Ithaca, N.Y.
amino acid; polymers; synthesis; conformations (chemistry); thermodynamics; hydrogen bond; hydrophobic bonds; proteins

AM-08485 **CURTIS, JOSEPH C.**, Clark Univ., Worcester, Mass.
liver cells; ultrasonics

AM-09085 **LENHERT, P. GALEN**, Sch. Arts, Sci., Vanderbilt Univ., Nashville, Tenn.
molecular structure; vitamin B12; 5,6--dimethylbenzimidazole cobamide; x--ray diffraction; crystallography; chemical bonds; laboratory facilities

AM-09395 **DEERING, REGINALD A.**, Pennsylvania State Univ., University Park, Pa.
polynucleotides; ultraviolet rays; dimers; thymidine; radiation sensitivity; photochemistry; deuterium oxide; mutations; bacteria; enzymes

AM-09404 **YOUNG, DAVID M.**, Massachusetts Gen. Hosp., Boston, Mass.
nucleases..ribonucleases; anaerobiosis; stereochemistry; chemical bonds..bond cleavage; disulfide bonds; chemical structure; reduction; oxidation; myosin; actin; muscle contraction; functional groups; adenosine triphosphate; binding

AM-09956 **NATELSON, SAMUEL**, Michael Reese Hosp., Med. Ctr., Chicago, Ill.
x--ray spectrometry; metal; electrolytes; ACTH; cortisone; epinephrine; norepinephrine; glucagon; insulin; thyroxine; calcium; potassium; citrate; phosphates; glucose; blood disorders; zinc; blood proteins..serum proteins; blood cells..erythrocytes

AP-00104 **JOHNSTON, HAROLD S.**, Grad. Sch., Univ. California, Berkeley, Cal.
air pollution; organic compounds; socioenvironment.. urban areas; ultraviolet rays; infrared rays; free radicals; photochemistry; reaction rates (chemistry); quantum mechanics; nitrogen oxides

AP-00128 **WEST, PHILIP W.**, Louisiana State Univ., Baton Rouge, La.
air pollution; atomic absorption spectrometry; trace elements; instrumentation

AP-00185 **DALHAMN, TORE**, Inst. Hygiene, Karolinska Inst., Stockholm, Sweden
air pollution; smoking; cell components..ciliary movement; trachea; bronchial mucus

AP-00307 **COOPERMAN, PHILIP**, Col. Sci., Eng., Fairleigh Dickinson Univ., Teaneck, N.J.
aerosols; air pollution; biomathematics; combustion exhausts; computer analysis; gases; instrumentation-methodology; particle size

AP-00367 **GUCKER, FRANK T.**, Col. Arts, Sci., Indiana Univ., Bloomington, Ind.
aerosols; light scattering; particle size; coagulation; instrumentation--methodology; lasers

CA-01785 **JIRGENSONS, BRUNO**, Univ. Texas M. D. Anderson Hosp., Houston, Tex.
albumins..serum albumin; amino acid; Bence-Jones protein; blood proteins..plasma proteins; disulfide bonds; gamma globulin; macroglobulins; molecular structure; myeloma globulins; polypeptides; sedimentation constants; viscosity

CA-02171 **HALL, CECIL E.**, Mass. Inst. Tech., Cambridge, Mass.
blood coagulation; fibrinogen; molecular shape; molecular structure; molecules..macromolecules; nucleic acids; nucleoproteins; polymerization; proteins; viruses

(contd)

BIOPHYSICS AND BIOPHYSICAL CHEMISTRY (CONTD)

CA-02248 **FOSTER, JOSEPH F.**, Purdue Univ., Res. Fdn., Lafayette, Ind.
albumins..serum albumin; binding; conformations (chemistry); ion..anions; isomers; molecular structure; proteins; proteins denaturation; proteolysis

CA-02739 **URETZ, ROBERT B.**, Grad. Sch., Biol. Sci., Univ. Chicago, Chicago, Ill.
aminoacridines; cell division; cytology; microorganisms; mutations; nucleic acids; phosphorescence; photobiology

CA-03073 **PULLMAN, BERNARD**, Univ. Paris, Paris, France
antimetabolites; antineoplastic agents; cell; coenzyme; electron charge distribution; folic acid; molecular structure; proteins; pyrimidine

CA-03640 **CUNNINGHAM, LEON W.**, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
proteins; proteolysis; ovalbumin; β-lactoglobulin; phosphotransferases..ATP : creatine phosphotransferase; oxidoreductases..glyceraldehyde-3-phosphate dehydrogenases; iodine; chemical structure; nitrophenyl acetate

CA-03928 **HOFFMAN, JOSEPH G.**, Grad. Sch., State Univ. New York, Buffalo, N.Y.
ascites tumors; cell age; cell components..cell membrane; cell components..cell nucleus; cell components..cytoplasm; cell culture; cell volume; potentials

CA-03983 **COMMONER, BARRY**, Sch. Liberal Arts, Washington Univ., St. Louis, Mo.
cell components..mitochondria; electron spin resonance spectroscopy; electron transport; enzymes; enzymes substrate complex; free radicals; instrumentation; oxidation-reduction; photochemistry; tissue

CA-04102 **HESS, EUGENE L.**, Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
blood cells..lymphocytes; blood cells..reticulocytes; cell components..cytoplasm; cell components..ribosomes; fractionation; lymphatic tissue; molecules..macromolecules; proteins; ribonucleic acid; thymus; transfer ribonucleic acid

CA-04186 **RICH, ALEXANDER**, Mass. Inst. Tech., Cambridge, Mass.
cell components..ribosomes; collagen; deoxyribonucleic acid; deoxyribonucleoproteins; genetics..chromosomes; hydrogen bond; keratins; molecular structure; nucleic acids..unnatural nucleic acids; proteins; purine nucleotides; pyrimidine nucleotides; ribonucleic acid; viruses..bacteriophage

CA-04561 **GOTTFRIED, BERNARD**, Waldemar Fdn., Port Washington, N.Y.
magnetic field; neoplasms; injury..wound healing; fibroblasts; hematopoietic tissues; cell division..mitosis; cell components; enzymes; reaction rates (chemistry)

CA-04696 **CASPAR, DONALD L.D.**, Children's Cancer Res. Fdn., Boston, Mass.
viruses..tobacco mosaic virus; ultraviolet spectrometry; x-ray diffraction; potentiometric titrations; virus capsid; proteins; molecular structure; ribonucleic acid

CA-04859 **VAN WINKLE, QUENTIN**, Col. Arts, Sci., Ohio State Univ., Columbus, Ohio
deoxyribonucleic acid; dyes; histones; fluorescence; bacteria; binding; molecular structure; molecular weight; neoplasms

CA-04989 **JEHLE, HERBERT**, Grad. Sch., George Washington Univ., Washington, D. C.
amino acid sequence; chemical structure--biological activity; London-Van der Waal's forces; molecular structure; nucleic acids; nucleotide sequence; proteins

CA-06183 **NORTON, DORITA A.**, Hlth. Research, Inc., Buffalo, N.Y.
molecular structure; steroids; cancer chemotherapy; chemical structure--biological activity; electrical conductance; charge transfer complexes

CA-06401 **POOLE, CHARLES**, Grad. Sch., Univ. South Carolina, Columbia, S.C.
electron paramagnetic resonance; polycyclic compounds; hydrocarbons; carcinogens; chemical structure--biological activity; free radicals; x-rays; radiation effects

CA-06412 **SAGE, MARTIN L.**, Grad. Sch., Univ. Oregon, Eugene, Ore.
molecules; electron charge distribution; conjugated systems; pi bonds; quantum mechanics; electron correlation; molecular vibrations

CA-06535 **KAMPMEIER, JACK A.**, Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.
free radicals; organic compounds; reaction rates (chemistry); stereochemistry; sulfides

CA-06642 **NUTINI, LEO G.**, Inst. Divi Thomae, Cincinnati, Ohio
cell division; Ehrlich ascites carcinoma; fungi..yeasts; glucose; magnetic field; neoplastic cells; neoplastic growth; oxygen consumption; sarcoma 37; transplantation

CA-06824 **ROSE, GEORGE G.**, Univ. Texas Anderson Hosp., Tumor Inst., Jouston, Texas
cell culture; cell types; cellophane strip technique; crystalloids; culture media; lipoproteins; molecular shape; molecules..macromolecules; neoplastic cells; radiation effects; tritium

CA-06850 **LOWDIN, PER-OLOV**, Grad. Sch., Uppsala Univ., Uppsala, Sweden
carcinogenesis; deoxyribonucleic acid; cell components.. cell nucleus; quantum mechanics; tautomerism; hydrogen bond; mutations; aging; deoxyribonucleic acid replication; molecular structure; molecular rearrangement

CA-06852 **NEVILL, WILLIAM A.**, Grinnell Col., Grinnell, Iowa
nuclear magnetic resonance; carcinogenesis inhibitors; metal complexes; chemical bonds; tetrachloro(6-mercaptopurine) platinum IV ion; pyrimido (5,4-d) pyrimidines; conformations (chemistry); screening; hydroxyl groups; sulfhydryls; amine; synthesis

CA-07016 **GRAY, HARRY B.**, Columbia Univ., New York, N.Y.
metal complexes; molecular structure; chemical bonds; ligands; electron donors; molecular orbitals

CA-07043 **FRY, WILLIAM J.**, Interscience Research Inst., Champaign, Ill.
brain lesions; diagnostic tests; instrumentation-methodology; stereotaxia; ultrasonics; vascular disorders

CA-07712 **BERSOHN, RICHARD**, Columbia Univ., New York, N.Y.
molecules..macromolecules; polynucleotides; phosphorescence; instrumentation--methodology; triplet state; proteins; fluorescence

CA-07754 **LASKOWSKI, DONALD E.**, Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
electron charge distribution; electron donors; electron acceptors; quinones; vitamin K; carcinogens; chemical structure--biological activity; oxidation--reduction; carcinogenesis; ubiquinone

CA-07773 **PERONE, SAM P.**, Purdue Univ., Lafayette, Ind.
radiation effects; free radicals; instrumentation--methodology; electrochemistry; electrolysis

CA-07778 **MACINTYRE, WALTER M.**, Grad. Sch., Univ. Colorado, Boulder, Colo.
crystallography; instrumentation-methodology; laboratory facilities; molecules..macromolecules; proteins; x-ray diffraction

CA-07993 **WAIT, SAMUEL C., Jr.**, Rensselaer Polytechnic Inst., Troy, N.Y.
hydrocarbons; heterocyclic compounds; naphthalenes; molecular energy levels; chemical bonds; molecular orbitals; ultraviolet spectrometry

CA-08014 **VINOGRAD, JEROME**, California Inst. Technology, Pasadena, Cal.
viruses..polyoma virus; deoxyribonucleic acid; transformation; carcinogenesis; tritium; chemical bonds..bond cleavage; polypeptides; ribonucleic acid; nucleic acids denaturation; amino acids; sedimentation equilibrium; cells

CA-08041 **BRAY, PHILIP J.**, Brown Univ., Providence, R.I.
crystallography; resonance (chemistry); electron charge distribution; purines; pyrimidines; nitrogen mustards; nitrogen compounds; chemical structure--biological activity

CA-08167 **MEMORY, JASPER D.**, Sch. Physical Sci., North Carolina State Univ., Raleigh, N.C.
polycyclic compounds; instrumentation--methodology; nuclear magnetic resonance; molecular structure; electron charge distribution; carcinogens; chemical structure--biological activity

CA-08261 **HEDGES, RICHARD M.**, Col. Arts,Sci., Texas AM Univ., College Station, Tex.
carcinogens; benzacridine; electronic spectra; fluorescence; phosphorescence; computer analysis

DE-01466 **LIPPINCOTT, ELLIS R.**, Sch. Phy. Chem., Univ. Maryland, College Park, Md.
hydrogen bond; minerals; dental structure..teeth; chemical bonds..bond formation

DE-01636 **BROPHY, GERALD P.**, Amherst Col., Amherst, Mass.
x--ray diffraction; minerals; bone; ion exchange and transport; fluorides; carbonates; water supply; crystallography; synthesis; apatites

DE-01919 **WYCKOFF, RALPH W.G.**, Univ. Arizona, Tucson, Ariz.
dental structure..teeth; electron probe x-ray microanalyzer; microradiography; morphology; x-ray diffraction; x-ray spectrometry

DE-01931 **DALLEMAGNE, MARCEL J.**, Sch. Med., Univ. Liege, Liege, Belgium
bone; calcium; chemical bonds; crystallography; dental calculus; hormones; hydrogen bond; molecular structure; nutrition; phosphates; vitamin

DE-02105 **FUSON, NELSON**, Fisk Univ., Nashville, Tenn.
hydroxyapatite; crystallography; hydroxyl groups; molecular vibrations; chemical structure--biological activity; instrumentation-methodology; laboratory facilities; bone; dental structure..enamel; infrared spectrometry

EF-00748 **HANSEN, POUL M.T.**, Col. Agr., Ohio State Univ., Columbus, Ohio
food processing; stabilizers; colloids; milk; proteins; lipids; lipoproteins; functional groups; polysaccharides sulfates; lipase..lipoprotein lipase

ES-00066 **COOKE, W. DONALD**, Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.
instrumentation--methodology; gas chromatography; pesticides; trace elements

FR-00225 **FENTON, STUART W.**, Sch. Chemistry, Univ. Minnesota, Minneapolis, Minn.
laboratory facilities; mass spectrometry; instrumentation--methodology

GM-02934 **GREGOR, HARRY P.**, Grad. Sch., Polytechnic Inst., Brooklyn, N.Y.
calcium; electrodes..multilayer membrane electrode; ion exchange; magnesium

GM-03449 **KEGELES, GERSON**, Grad. Sch., Clark Univ., Worcester, Mass.
computer; fractionation; molecules..macromolecules

GM-04483 **WANG, JUI H.**, Yale Univ., New Haven, Conn.
enzymes models; respiratory enzymes; heme; cytochrome C; oxidation; oxidative phosphorylation; oxygen carbon monoxide

GM-04614 **LIENER, IRVIN E.**, Grad. Sch., Univ. Minnesota, St. Paul, Minn.
amino acid; chemical structure--biological activity; molecular weight; peptides; proteases..bromelin; proteases..ficin; proteases..trypsin; sulfhydryls

GM-04617 **NEURATH, HANS**, Sch. Med., Univ. Washington, Seattle, Wash.
chemical structure--biological activity; enzymes; molecular structure; pancreas; proteases..carboxypeptidase A; proteases..chymotrypsinogen; proteases..trypsinogen; serine

GM-04725 **STURTEVANT, JULIAN M.**, Grad. Sch., Yale Univ., New Haven, Conn.
cytochrome B2; dehydratases..carbonic anhydrase; dehydratases..D-2-phosphoglycerate hydrolase; immunology..antigen-antibody reactions; immunology.. haptes; molecules..macromolecules; proteases..trypsin; reaction rates (chemistry)..fast reactions; thermodynamics

GM-04736 **SOBOTKA, HARRY**, Mount Sinai Hosp., N.Y.C.
albumins..serum albumin; fatty acids; molecular films.. monomolecular films; molecular weight

GM-04964 **SUCKLING, EUSTACE E.**, State Univ. N.Y., Brooklyn, N.Y.
instrumentation; ultrasonic microscopy

GM-05144 **KOSKI, WALTER S.**, Grad. Sch., Johns Hopkins Univ., Baltimore, Md.
phthalocyanines; synthesis; nuclear magnetic resonance; electron spin resonance spectroscopy; piperazines; x-rays; radiation effects; porphyrins

GM-05410 **WAUGH, DAVID F.**, Massachusetts Inst. Tech., Cambridge, Mass.
blood coagulation..fibrin; blood coagulation..fibrinogen; blood coagulation..prothrombin; blood coagulation.. thrombin; casein; light scattering; polymerization; proteins; viscosity

GM-05412 **JEFFREY, GEORGE A.**, Univ. Pittsburgh, Pittsburgh, Pa.
computer analysis; crystallography; molecular structure; molecules..macromolecules; statistics

GM-05488 **HOLTZER, ALFRED M.**, Grad. Sch., Washington Univ., St. Louis, Mo.
molecular structure; myosin; actin; thermodynamics; paramyosin; tropomyosin; light scattering; optical rotatory dispersion; polyglutamic acid; potentiometric titration; temperature; proteins densturation

GM-06818 **HUTCHINSON, ERIC**, Stanford Univ., Stanford, Cal.
hemolysis; calorimetry; blood cells..erythrocytes; cytolysins; ion..cation; ion..anion; non--electrolytes; bacteria..Escherichia coli; cytolysis

GM-06920 **LIPSCOMB, WILLIAM N.**, Grad. Sch., Harvard Univ., Cambridge, Mass.
alkaloids; boron compounds; computer; gibberellin; molecular structure; proteases..carboxypeptidase A; stereochemistry; x-ray diffraction

GM-06967 **WARNER, ROBERT C.**, Sch. Med., New York Univ., N.Y.C.
ribonucleic acid analogs; polynucleotides; bacteria.. Azotobacter vinelandii; nucleic acids; deoxyribonucleic acid analogs; polyuuanylic acid

GM-07072 **SEARS, DEWEY F.**, Sch. Med., Tulane Univ., New Orleans, La.
gases..inert gases; narcotics; lipids; cell components.. cell membrane; protozoa..Paramecium; surface properties; cell water; ion exchange and transport

GM-07399 **RUDALL, KENNETH M.**, Univ. Leeds, Leeds, England
proteins; chitin; electron microscopy; x-ray diffraction; citrate

GM-07445 **COTTON, F. ALBERT**, Massachusetts Inst. Tech., Cambridge, Mass.
cobalt; iron; ligands; magnetic field; metal complexes; oxygen transport; phthalocyanines; sulfonates

GM-07488 **BASOLO, FRED**, Northwestern Univ., Evanston, Ill.
metal complexes; oxidation-reduction; solutions; stereochemistry

GM-07493 **MILBURN, RONALD M.**, Grad. Sch., Boston Univ., Boston, Mass.
citrate; ion..anions; iron; metal complexes; phenols; polymerization; thermodynamics

GM-07653 **SMITH, PETER**, Grad. Sch., Duke Univ., Durham, N.C.
free radicals; hydrogen peroxide; photochemistry; solutions..aqueous solutions

GM-07654 **FRESCO, JACQUES R.**, Grad. Sch., Princeton Univ., Princeton, N.J.
nucleic acids; molecular structure; synthesis; guanosine phosphates; optical rotation; molecules..macromolecules; polynucleotides

GM-07803 **HAMMES, GORDON G.**, Mass. Inst. Tech., Cambridge, Mass.
amino acid; aminotransferases..aspartate transaminase; enzymes; ligands; metal; phosphotransferases..ATP; D-hexose 6-phosphotransferase; polypeptides; proteins; reaction rates (chemistry)..fast reactions

GM-07917 **SCHLENK, HERMANN**, Hormel Inst., Austin, Minn.
cyclodextrins; optical rotation; solutions association; solutions inclusion; molecules; molecular structure; stereochemistry; crystallography

GM-08068 **LYKOS, PETER G.**, Illinois Inst. Tech., Chicago, Ill.
heterocyclic compounds; quantum mechanics; computer

GM-08113 **CLELAND, ROBERT L.**, Dartmouth Col., Hanover, N.H.
aminopolysaccharides; proteins; hyaluronic acid; albumins ..serum albumins; light scattering; osmotic pressure; binding; ion; metal; electrolytes

GM-08114 **VEIS, ARTHUR**, Sch. Med., Northwestern Univ., Chicago, Ill.
coacervation; gelatin; light scattering; viscosity; molecular structure; molecular shape; thermodynamics; polyelectrolytes

GM-08117 **FRIEDEN, CARL**, Sch. Med., Washington Univ., St. Louis, Mo.
molecular structure; enzymes; enzyme substrate complex; chemical bonds; proteolysis; optical rotation; deuterium

GM-08122 **CANADY, WILLIAM**, West Virginia Univ., Morgantown, West Va.
theodynamics; solutions; enzymes substrate complex; ionic strength; esters; porteases..chymotrypsin; solubility

GM-08185 **HEIMKAMP, GEORGE K.**, Grad. Sch., Univ. California, Riverside, Cal.
hydrogen bond; nucleic acids; purine; pyrimidine; nuclear magnetic resonance; pi bonds; hydrophobic bonds; polymers; oligonucleotides; molecular structure; alkylating agents

GM-08209 **NYBORG, WESLEY L.**, Univ. Vermont, Burlington, Vt.
ultrasonics; cell; molecules..macromolecules; instrumentation--methodology; radiation effects; tissue

GM-08222 **VEIS, ARTHUR.**, Sch. Med., Northwestern Univ., Chicago, Ill.
aging; chemical bonds; collagen; molecular structure; polymers

GM-08264 **LACHER, JOHN R.**, Grad. Sch., Univ. Colorado, Boulder, Colo.
calorimetry; instrumentation; heat of solution; seeds; growth; thermodynamics; molecular structure; nucleosides (tides) bases; polymers; nucleases..ribonuclease; viruses..bacteriophage T2

GM-08288 **MICHAELS, ALAN S.**, Massachusetts Inst. Tech., Cambridge, Mass.
polyions..polycation; polyions..polyanions; polymers; molecular weight; light scattering; polyelectrolytes; proteins; nucleic acids; metal complexes

GM-08409 **MILLER, WILMER G.**, Grad. Col., State Univ. Iowa, Iowa City, Iowa
polypeptides; conformations (chemistry); polyglutamic acid; glutamates; copolymers; proteolysis; proteases.. peptidases; leucine

GM-08412 **CARR, CHARLES W.**, Sch. Med., Univ. Minnesota, Minneapolis, Minn.
membrane; binding; ion; phosphates; sulfates; carboxyl groups; polyelectrolytes; membrane permeability and transport

GM-08518 **HASCHEMEYER, RUDY H.**, Sch. Med., Tufts Univ., Boston, Mass.
molecules..macromolecules; blood coagulation..fibrinogen; myxomyosin; cell components..ribosomes; proteins; fungi..yeasts; glycopeptides

GM-08520 **MARFEY, S. PETER**, Massachusetts Eye, Ear Inf., Boston, Mass.
nucleases..ribonucleases; myoglobin; stereochemistry; ligands..bifunctional ligands; hemoglobin

GM-08521 **GRANT, DAVID M.**, Univ. Utah, Salt Lake City, Utah
nuclear magnetic resonance; stable isotope labeled carbon; synthesis

GM-08522 **JACOBS, JOHN E.**, Northwestern Univ., Evanston, Ill.
ultrasonics; television; instrumentation

GM-08524 **SCHRENK, WILLIAM G.**, Kansas State Univ., Manhattan, Kans.
flame photometry; ion..cation; resonance (chemistry)

GM-08525 **GEHRKE, CHARLES W.**, Col. Agr., Univ. Missouri, Columbia, Mo.
casein; enzymes; globular proteins; heat lability; molecular structure

GM-08608 **TRAUB, WOLFIE**, Weizmann Inst. Sci., Rehovoth, Israel
polypeptides; x--ray structure analysis; mutarotation; collagen; amino acids; polymers

GM-08611 **JAHN, THEODORE L.**, Col. Letters, Sci., Univ. California, Los Angeles, Cal.
oxidation--reduction; potentials..membrane potentials; cell components..cell membrane; electron transport; electrophysiology; surface properties

GM-08664 **EISENBERG, HENRY**, Weizmann Inst. Sci., Rehovot, Israel
ion; nucleic acid; organic compounds; organophosphates; polyelectrolytes; polymers; polynucleotides; polypeptides; proteins

GM-08686 **FRAENKEL, GIDEON**, Ohio State Univ. Res. Fdn., Columbus, Ohio
amides; electron charge distribution; electron donors; hydrogen bond; molecules; polar molecules; proteins; protonation; solutions

GM-08773 **ANDERSON, THOMAS F.**, Carnegie Inst. Washington, Washington, D.C.
conferences..international meetings; biophysics; travel

GM-08775 **NYBORG, WESLEY L.**, Univ. Vermont, Burlington, Vt.
body fluids; cell components..cell wall; cell components ..cytoplasm; growth; membrane; radiation effects; ultrasonic

(contd)

BIOPHYSICS AND BIOPHYSICAL CHEMISTRY (CONTD)

GM-08775 NYBORG, WESLEY L., Col. Med., Arts, Sci., Univ. Vermont, Burlington, Vt.
ultrasonics; membrane; cell components..cytoplasm; cell components..cell wall; body fluids; growth; radiation effects

GM-08811 WAUGH, JOHN S., Massachusetts Inst. Tech., Cambridge, Mass.
diffusion; free radicals; gases; hydrogen bond; molecules ..macromolecules; nuclear magnetic resonance; relaxation spectrometry; solutions

GM-08813 STOLOW, ROBERT D., Grad. Sch., Tufts Univ., Medford, Mass.
conformations (chemistry); cyclohexanones; 2,5-dialkyl-1,4-cyclohexanediones; stereoisomers; thermodynamics

GM-08815 ROTHEN, ALEXANDRE, Rockefeller Inst., N.Y.C.
enzymes; molecular films..monomolecular films; molecules ..macromolecules; proteins; surface properties

GM-08893 KUSTIN, KENNETH, Sch. Sci., Brandeis Univ., Waltham, Mass.
catalysts; electron transport; instrumentation; metal complexes; reaction rates (chemistry)..fast reaction; relaxation spectrometry; temperature-jump method

GM-08894 LERMAN, LEONARD S., Sch. Med., Univ. Colorado, Denver, Colo.
deoxyribonucleic acid; deoxyribonucleic acid replication; enzymes; molecular structure; mutagens; mutations

GM-08968 BEER, MICHAEL, Sch. Arts, Sci., Johns Hopkins Univ., Baltimore, Md.
electron microscopy; instrumentation-methodology; molecular structure; nucleic acids; nucleotide sequence; purine; pyrimidine

GM-08972 AFFSPRUNG, HAROLDE., Grad. Col., Univ. Oklahoma Res. Inst., Norman, Okla.
chemical structure; computer analysis; equilibrium constants; hydration reactions; peptides; proteins; solutions; solvents..nonaqueous solvents; stoichiometry; thermodynamics

GM-08974 GOODMAN, MURRAY, Polytechnic Inst. Brooklyn, Brooklyn, N.Y.
conformations (chemistry); molecular structure; polymers; solvents; stereochemistry

GM-09153 FIXMAN, MARSHALL, Grad. Sch., Univ. Oregon, Eugene, Ore.
polymers; viscoelasticity; conformations (chemistry); quantum mechanics; solutions; molecular vibrations; light scattering

GM-09154 PRAUSNITZ, JOHN M., Col. Chem., Univ. California, Berkeley, Cal.
thermodynamics; organic compounds; calorimetry; vapor pressure; stability constants; acid; bases; charge transfer complexes

GM-09187 HANNA, MELVIN W., Grad. Sch., Univ. Colorado, Boulder, Colo.
electron paramagnetic resonance; radiation effects

GM-09212 RHODES, WILLIAM C., Florida State Univ., Tallahassee, Fla.
polynucleotides; molecular structure; purine; pyrimidine; molecular orbitals; polypeptides

GM-09232 ATKINSON, GORDON, Univ. Maryland, College Park, Md.
polyelectrolytes; relaxation spectrometry; polar molecules

GM-09256 BRILL, ARTHUR S., Grad. Sch., Yale Univ., New Haven, Conn.
binding; metalloproteins; metal; enzymes; free radicals; oxidation-reduction; electron transport

GM-09280 KLOTZ, IRVING M., Col. Liberal Arts, Northwestern Univ., Evanston, Ill.
hydrogen bonds; proteins; solutions; amides; polypeptides; deuterium; hydrogen; ion exchange and transport

GM-09352 BIEMANN, KLAUS, Massachusetts Inst. Tech., Cambridge, Mass.
instrumentation-methodology; mass spectrometry; organic compounds; stable isotope labeled

GM-09369 KRESGE, A.J., Illinois Inst. Tech., Chicago, Ill.
reactions rates (chemistry)..slow reactions; hydrogen-ion concentration; deuterium oxide; protons; aryl mercurials; chemical bonds..bond cleavage; ultraviolet spectrometry; cyclopropane

GM-09370 HOARD, JAMES L., Cornell Univ., Ithaca, N.Y.
metalloporphyrins; x-ray diffraction; molecular structure; cobalt; pyridoxylidenevaline; manganese; metal chelates; magnesium

GM-09410 RUPLEY, JOHN A., Grad. Sch., Univ. Arizona, Tucson, Ariz.
hemoglobin; myoglobin; oxidation; molecular structure; heme--proteins; hydrogen; tritium; solutions; crystallization

GM-09430 CHRISTENSEN, JAMES J., Brigham Young Univ., Provo, Utah
dissociation constants; ionic strength; nucleic acids; protons; ribonucleotides; thermodynamics

GM-09431 BARRETT, ROBERT E., Providence Col., Providence, Rhode Island
ultrasonic spectrometry; amino acid; sodium formate; sodium propionate; sodium butyrate; dissociation constants; propanes; isomers

GM-09432 KEDEM, ORA, Weizmann Inst., N.Y.C.
membrane permeability and transport; potentials..membrane potentials; osmotic pressure; hydrostatic pressure; electrolytes; membrane..multilayer membranes

GM-09505 MILLER, BERNARD, American Univ., Washington, D.C.
diffusion; molecules..macromolecules; fractionation

GM-09506 CORNWELL, D.G., Col. Med., Ohio State Univ. Fdn., Columbus, Ohio
lipoproteins; molecules..macromolecules; lipids; proteins; carbohydrates; cell components..cell membrane; molecular structure

GM-09508 RIGDEN, JOHN S., E. Nazarene Col., Quincy, Mass.
hydrogen bond; molecular structure; electron charge distribution; chloral hydrate; 2-chlorophenol; aminodiborane; methylaminodiborane; formamidecarbamyl chloride; heterocyclic compounds; electron paramagnetic resonance; azo compounds; porphyrin; phenazine; acridine; benzophenone; polar molecules; solvents; quinolines; isoquinolines

GM-09558 ALLEN, MARY B., Kaiser Res. Inst., Richmond, Cal.
free radicals; photosynthesis; electron paramagnetic resonance; photochemistry

GM-09583 ROSENTH[illegible], DONALD, Clarkson Col. Technology, Potsdam, N.Y.
acid--base equilibrium; saline solutions; hydrogen--ion concentration; indicators; buffers

GM-09590 HUGGINS, MAURICE L., Stanford Res. Inst., Menlo Park, Cal.
polypeptides; collagen; molecular structure; synthesis

GM-09592 IRVINE, DENNIS H., Sch. Chem., Univ. Ibadan, Ibadan, Nigeria
hemoglobin; thermodynamics; fluorides; cyanides; azide; ion; chemical structure--biological activity; oxygen

GM-09719 BEESON, EDWARD L., Jr., Louisiana State Univ., New Orleans, La.
microwave spectrometry; molecular structure; dipole moments; imines

GM-09767 KRIGBAUM, WILLIAM R., Grad. Sch., Duke Univ., Durham, N.C.
x-ray diffraction; blood coagulation..fibrinogen; gamma globulin; collagen; molecular size; light scattering

GM-09767 KRIGBAUM, WILLIAM R., Grad. Sch., Duke Univ., Durham, N.C.
x-ray diffraction; blood coagulation..fibrinogen; gamma globulin; collagen; molecular size; light scattering

GM-09771 RICHARD, ALFRED J., Med. Col. Virginia, Richmond, Va.
peptides; molecules..macromolecules; proteolysis; molecular weight; instrumentation; chromatography; refractometry; proteins

GM-09795 NAKAMURA, TAKAO, Sch. Pub. Hlth., Univ. Tokyo, Tokyo, Japan
metallo--proteins; copper; molecular structure; chemical structure--biological activity

GM-09796 WORTHINGTON, CHARLES R., Sch. Lib., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
x-ray diffraction; molecules..macromolecules; muscle; molecular structure

GM-09808 SZENT-GYORGYI, ANDREW G., Sch. Med., Dartmouth Col., Hanover, N.H.
muscle proteins; muscle contraction; embryology; adults; fibroproteins; chemical structure; uterus..myometrium; progesterone; estrogens; adenosine diphosphate; adenosine triphosphate

GM-09809 RICE, STUART A., Univ. Chicago, Chicago, Ill.
oxidation-reduction; polypeptides; amorphous solids; electron transport; liquid state (chemistry); electron spin resonance spectroscopy; nuclear magnetic resonance; metal

GM-09811 MULLER, OTTO H., State Univ. N.Y., Syracuse, N.Y.
polarography; oxidation--reduction; pyruvate; lactates; enzymes; NAD; coenzymes

GM-09899 OLCOTT, HAROLD S., Sch. Agr., Univ. California, Berkeley, Cal.
muscle proteins; myosin; myoglobin; molecular structure; proteins denaturation; actomyosin; actin

GM-09978 HELLER, WILFRIED, Grad. Sch., Wayne State Univ., Detroit, Mich.
proteins; gases; absorption; hemoglobin; water; ethanol; molecules..macromolecules; nucleases..ribonucleases; carbohydrases..lysozyme; enzymes

GM-10017 CRIDDLE, RICHARD S., Sch. Agr., Univ. California, Davis, Cal.
cell components..mitochondria; chemical bonds; gamma globulin; immune[illegible]antigen-antibody reactions; molecular structure; oxidation; stability constants

GM-10024 TSUBOI, MASAMICHI, Sch. Pharm. Sci., Univ. Tokyo, Tokyo, Japan
nucleic acids; nucleoproteins; molecular structure; infrared spectrometry

GM-10025 RICHARDS, FREDERIC M., Sch. Med., Yale Univ., New Haven, Conn.
electron charge distribution; heavy metals; molecular structure; nucleases..ribonucleases

GM-10038 GROSSWEINER, LEONARD I., Illinois Inst. Technology, Chicago, Ill.
photochemistry; dyes; triplet state; aromatic amino acids; hydration reactions; binding; proteins; benzene

GM-10072 NAKAMOTO, KAZUO, Illinois Inst. Technology, Chicago, Ill.
computers; infrared spectrometry; ligands..polydentate ligands; metal chelates; molecular structure; molecular vibrations

GM-10078 **BECKMANN, CHARLES O., Grad. Sch., Columbia Univ., N.Y.C.**
computer; density gradient ultracentrifugation; deoxyribonucleic acid; diffusion; electron charge distribution; light scattering; molecular shape; molecular size; polyelectrolytes; refractometry; solutions; ultracentrifugation; viscosity

GM-10101 **BLANK, MARTIN, Col. Phys., Surg., Columbia Univ., N.Y.C.**
lipids; molecular films..monomolecular films; phospholipids; electrical fields; electron charge distribution; membrane permeability; ion; surface properties

GM-10133 **FRANZEN, JAMES S., Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.**
dielectric constants; hydrogen bond; N-methylacetamide

GM-10135 **FERRY, JOHN D., Sch. Letters, Sci., Univ. Wisconsin, Madison, Wis.**
proteins; molecules..macromolecules; solutions; viscosity; viscoelasticity

GM-10136 **WILSON, M. KENT, Tufts Univ., Medford, Mass.**
conformations (chemistry); cyclohexanes; deuterium; infrared spectrometry; molecular vibrations

GM-10158 **KOWABANY, GEORGE N., Grad. Sch. Arts, Sci., Catholic Univ., Washington, D.C.**
radiolabeled carbon; molecular films..monomolecular films; radioassay; triglycerides; surface properties

GM-10167 **SOPHIANOPOULOS, ALKIS J., Sch. Med. Sci., Univ. Tennessee, Memphis, Tenn.**
carbohydrases..lysozymes; equilibrium constants; hemoglobin; myoglobin; proteins denaturation; temperature; thermodynamics

GM-10168 **PERSON, WILLIS B., Grad. Sch., Univ. Iowa, Iowa City, Iowa**
halogens; thermodynamics; electronic spectra; charge transfer complexes; molecular vibrations; dipole moments

GM-10171 **STEELE, RICHARD H., Sch. Med., Tulane Univ., New Orleans, La.**
luminescence..chemiluminescence; oxidation-reduction; electron paramagnetic resonance; free radicals; enzymes; coenzyme

GM-10172 **HEPLER, LOREN G., Carnegie Inst. Tech., Pittsburgh, Pa.**
thermodynamics; organic acids; ionization; calorimetry; oxidation--reduction

GM-10175 **WEBER, ANNEMARIE, Inst. Muscle Disease, N.Y.C.**
adenosine triphosphate; actin; actomyosin; binding; calcium; magnesium; muscle contraction; muscle relaxation; muscle relaxing factor; myosin; precipitation; radiolabeled calcium; radiolabeled phosphorus

GM-10177 **SCOTT, BRUCE I.H., Sch. Biophysics, Univ. Tasmania, Hobart, Tasmania, Australia**
electrical fields; plants..roots; membrane permeability; electrolytes; growth; plants hormones; ion exchange; cyclic functions

GM-10242 **ALLEN, LELAND C., Grad. Sch., Princeton Univ., Princeton, N.J.**
molecular structure; electronic spectra; molecular orbitals

GM-10273 **GREGOR, HARRY P., Polytechnic Inst. Brooklyn, Brooklyn, N.Y.**
instrumentation-methodology; ion exchange chromatography; solvents..nonaqueous solvents

GM-10274 **BERNHEIM, ROBERT A., Sch. Chem., Pennsylvania State Univ., University Park, Pa.**
ammonia; boron; deuterium; ion; methane; nuclear magnetic resonance; synthesis

GM-10286 **BAUMAN, ROBERT F., Polytechnic Inst., Brooklyn, N.Y.**
aminoanthraquinones; chemical structure; hydrogen bond; nitrogen; solid state (chemistry); solutions; temperature; vapors

GM-10287 **FRIDOVICH, IRWIN, Sch. Med., Duke Univ., Durham, N.C.**
ions..anion; enzyme inhibitors..decarboxylases inhibitors; decarboxylases..acetoacetate decarboxylase; binding

GM-10288 **BRANDT, WERNER W., Illinois Inst. Tech., Chicago, Ill.**
nuclear magnetic resonance; polar molecules; amides; proteins; polypeptides

GM-10289 **HARDY, JAMES D., John B. Pierce Fdn., New Haven, Conn.**
blood flow; blood vessels vasomotion; computer; environment; exercise; mathematical models; muscle; skin; sweat; thermodynamics; thermoregulation

GM-10362 **KATZ, SIDNEY, Med. Sch., State Univ. New York, Buffalo, N.Y.**
binding; deoxyribonucleic acid; instrumentation-methodology; light scattering; mercury; polynucleotides; ultracentrifugation; ultraviolet spectrometry

GM-10363 **JARBOE, CHARLES H., Sch. Med., Univ. Louisville, Louisville, Ky.**
equilibrium constants; hydrogen bond; kidney..renal tubular transport; organic acids

GM-10448 **LAURIE, VICTOR W., Grad. Sch., Stanford Univ., Stanford, Cal.**
microwave spectrometry; molecular structure; chemical bonds; molecular vibrations; instrumentation

GM-10449 **KEARNS, DAVID R., Univ. California, Riverside, Cal.**
aromatic compounds; electronic spectra; triplet state; singlet state; emission spectroscopy; biomathematics; charge transfer complexes

GM-10451 **BERNHARD, SIDNEY A., Univ. Oregon, Eugene, Ore.**
enzymes; reaction rates (chemistry)..fast reactions; enzyme substrate complex; synthesis; computer analysis; peptides; biomathematics

GM-10454 **EL-SAYED, M.A., Univ. California, Los Angeles, Cal.**
fluorescence polarization; phosphorescence polarization; molecules; triplet state; singlet state; electronic spectra; charge transfer complexes; stereochemistry

GM-10467 **GRAND, C.G., Papanicolaou Inst., Miami, Fla.**
cell components..cell membrane; potentials..membrane potentials; tissue culture; temperature; drugs; chick embryo; heart..myocardium; cell age; muscle neoplasms; heart neoplasms

GM-10491 **HARRINGTON, RODNEY E., Grad. Sch., Univ. Arizona, Tucson, Ariz.**
polymers; deoxyribonucleic acid; chemical bonds..bond cleavage, mechanical; solvents fractionation; solutions; hydrodynamics

GM-10514 **VAN DER HEIM, DICK, Grad. Sch., Univ. Oklahoma, Norman, Okla.**
metalloenzymes; crystallography; stereochemistry; hydrogen bond; molecular structure; reaction sites; chelation; peptides; metal chelates

GM-10515 **COWGILL, ROBERT W., Bowman Gray Sch. Med., Winston-Salem, N.C.**
fluorescence; proteins; molecular structure; tyrosine; tryptophan, solvents; hydrogen bond; electron charge distribution; amino acid; insulin; nucleases..ribonucleases; polar molecules

GM-10522 **BEAMS, JESSE W., Grad. Sch., Univ. Virginia, Charlottesville, Va.**
instrumentation; magnetic balance; molecular volume

GM-10523 **SCHWARTZ, MANUEL, Sch. Eng., Univ. Louisville, Louisville, Kentucky**
Hall effect; electrical conductance; organic compounds; metal; cell components..cell membrane; semiconduction; molecular films; potentials.. membrane potentials

GM-10534 **KENNELLY, SISTER MARY M., Mundelein Col., Chicago, Ill.**
amides; amino acid; chemical bonds; chemical structure; metal complexes; stereochemistry; synthesis; urea

GM-10539 **LI, NORMAN C., Grad. Sch., Duquesne Univ., Pittsburgh, Pa.**
N-acetylglycine N-methyl-amide; N-acetylsarcosine-N-methylamide; alcohols; binding; cadmium; copper; cysteine; glutathione; hydrogen bond; hydroxyl groups; ion; N-methylacetamide; N-methyl-2-phenylacetamide; nuclear magnetic resonance; phenols; 1-propanethiol; 2-propanol; proteins; serine; sulfhydryls; threonine; tyrosine

GM-10563 **VAN DYKE, JOHN H., Hahnemann Med. Col., Philadelphia, Pa.**
magnetic field; instrumentation--methodology; growth; cell differentiation; carcinogenesis; injuries..wound healing; fertility; pregnancy; space medicine

GM-10574 **MAY, LEOPOLD, Grad. Sch. Arts, Sci., Catholic Univ., Washington, D.C.**
infrared spectrometry; peptides; amino acid; chemical structure; solutions..aqueous solutions; crystallography; stereoisomers

GM-10576 **BEYCHOK, SHERMAN, Col. Phys., Surg., Columbia Univ., N.Y.C.**
binding; chromophores; conformations (chemistry); optical rotatory dispersion; polypeptides; proteins; reaction sites

GM-10583 **LUND, PAUL K., Swedish Hosp., Seattle, Wash.**
x-ray spectrometry; instrumentation; potassium; bromides; iodine

GM-10607 **STEINHARDT, JACINTO, Grad. Sch., Georgetown Univ., Washington, D.C.**
chemical bonds; chemical structure; globins; heme proteins; hemoglobin; iron; ligands; methemoglobin; proteins denaturation

GM-10614 **MANDELKERN, LEO, Grad. Sch., Florida State Univ., Tallahassee, Fla.**
proteins; polypeptide fibers; thermodynamics; chemical structure; melting; proteins contraction

GM-10616 **MALINOWSKI, EDMUND R., Stevens Inst. Technology, Hoboken, N.J.**
nuclear magnetic resonance; protons; solutions.. aqueous solutions; electrolytes; ion; hydration reactions

GM-10624 **HYMAN, EDWARD S., Tulane Res. Inst., New Orleans, La.**
binding; diffusion; ion..anion; ionic strength; sodium; solutions..multicomponent solutions

GM-10681 **OSTER, GISELA K., Grad. Sch., New York Univ., New York, N.Y.**
photosensitivity; electron donors; free radicals; anthracenes; phenanthrenes; naphthalenes; ultraviolet rays; radiation effects; skin; injury; triplet state

GM-10691 **POPE, MARTIN, New York Univ., N.Y.C.**
catalysts; crystallography; electrodes; electrolytes; membrane permeability and transport; organic compounds; semiconduction; surface properties

GM-10692 **ANDEREGG, JOHN W., Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.**
proteins; nucleoproteins; ribonucleic acid; viruses.. plant viruses; ferritin; iron oxides; cell components.. ribosomes; cell components..mitochondria; x-ray scattering; x-ray diffraction

(contd)

BIOPHYSICS AND BIOPHYSICAL CHEMISTRY (CONTD)

GM-10693 **THORNTON, EDWARD R.**, Grad. Sch. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.
molecules; electricity; molecular structure; deuterium; substitution reactions (chemistry); mass spectrometry; free radicals; chemical bonds..bond cleavage; radiation effects

GM-10695 **COETZEE, JOHANNES F.**, Grad. Sch., Univ. Pittsburgh, Pittsburgh, Pa.
solvents..nonaqueous solvents; ionization; dissociation constants; acid-base equilibrium; benzoic acids; phenols; aliphatic acids; amino acids; diamines; guanidines; phosphines

GM-10704 **ROSSMANN, MICHAEL G.**, Grad. Sch., Purdue Univ., Lafayette, Ind.
catalase; crystallography; molecular structure; computer analysis; x-ray diffraction; viruses; biomathematics; instrumentation-methodology

GM-10797 **LEDLEY, ROBERT S.**, Natl. Biomedical Res. Fdn., Silver Spring, Md.
instrumentation-methodology; picture reading-processing machines; photography; computer analysis

GM-10805 **ELLIS, DAVID W.**, Grad. Sch., Univ. New Hampshire, Durham, N.H.
conjugated systems; emission spectroscopy; fluorescence; phosphorescence; polyenes; resonance; molecular structure

GM-10826 **LYKOS, PETER G.**, Grad. Sch., Illinois Inst. Tech., Chicago, Ill.
aromatic compounds; molecular structure; pyrimidine; purine; triplet state; antimetabolites; pi bonds; xanthine; uracil; uric acid; computer analysis

GM-10828 **JENSEN, LYLE H.**, Sch. Med., Univ. Washington, Seattle, Wash.
computer analysis; molecular structure; proteins; lipids

GM-10829 **DOUGLAS, BODIE E.**, Univ. Pittsburgh, Pittsburgh, Pa.
amino acid; chromium; cobalt; metal chelates; molecular structure; platinum; racemization; stability constants

GM-10830 **VAN HOLDE, KENSAL E.**, Univ. Illinois, Urbana, Ill.
acid; albumins..serum albumin; aldolases; carbohydrases.. lysozyme; dissociation constants; hemocyanin; molecular structure; proteins; solvents; temperature

GM-10831 **LASKOWSKI, MICHAEL, Jr.**, Purdue Univ., Lafayette, Ind.
globular proteins; chromophores; detergents; tryptophan; surface properties; molecular shape

GM-10832 **NAZARIAN, GIRAIR M.**, San Fernando Valley State Col., Northridge, Cal.
ultracentrifugation; molecular weight; proteins; diffusion; laboratory facilities; sedimentation constants

GM-10833 **GOUTERMAN, MARTIN P.**, Grad. Sch., Harvard Univ., Cambridge, Mass.
metalloporphyrins; luminescence; molecular structure

GM-10834 **MARTELL, ARTHUR E.**, Illinois Inst. Tech., Chicago, Ill.
chemical structure--biological activity; ion; ligands; metal; thermodynamics

GM-10837 **SCHUMAKER, VERNE N.**, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
density gradient ultracentrifugation; instrumentation--methodology; fractionation; deoxyribonucleic acid; nucleoproteins; lipoproteins; gamma globulin; spermatozoa; proteins; viruses..bacteriophage; chemical structure--biological activity

GM-10840 **TINOCO, IGNACIO, Jr.**, Grad. Sch., Univ. California, Berkeley, Cal.
birefringence; conformations (chemistry); Faraday effect; fluorescence; molecular structure; nucleic acids; optical rotation; polar molecules; polypeptides; proteins; spectrometry; ultraviolet spectrometry

GM-10841 **NICHOL, JAMES C.**, Univ. Minnesota, Duluth, Minn.
acetates; electrophoresis; glutamates; refractometry; sodium iodide; sodium phosphate; tartaric acid

GM-10842 **LINGAFELTER, EDWARD C.**, Grad. Sch., Univ. Washington, Seattle, Wash.
acetylacetonates; ethylenediamine; ion; metal; metal chelates; molecular structure; salicylaldehydes

GM-10845 **COHEN, IRVING**, Polytechnic Inst. Brooklyn, Brooklyn, N.Y.
coacervation; iodine; micelle formation (chemistry); quaternary ammonium compounds

GM-10846 **LUYET, BASILE J.**, American Fdn. Biol. Res., Madison, Wis.
freezing; cell components..protoplasm; cell; tissue; electron microscopy; albumins; ice; crystallization; freeze--drying; gelatin

GM-10847 **BLOIS, MARSDEN S., Jr.**, Grad. Sch., Stanford Univ., Stanford, Cal.
enzymes; free radicals; melanin; oxidation..autooxidation; semiquinones

GM-10848 **MANDELL, LEON**, Emory Univ., Atlanta, Ga.
chemical bonds; chemical structure--biological activity; imidazoles; infrared spectrometry; molecular structure; nuclear magnetic resonance; purine; pyrimidine

GM-10851 **GIDDINGS, J. CALVIN**, Sch. Letters, Sci., Univ. Utah, Salt Lake City, Utah
fractionation; gas chromatography; instrumentation; paper chromatography; paper electrophoresis

GM-10853 **FREISER, HENRY**, Grad. Sch., Univ. Arizona, Tucson, Ariz.
1,2,3,4--tetrahydro--8--hydroxyquinoline; metal chelates; thermodynamics; purine; pyrimidine; sulfur; 8--mercaptoquinoline; diphenylthiocarbazone; chemical structure; oxidation..auto--oxidation

GM-10855 **WALTER, JOSEPH L.**, Univ. Notre Dame, Notre Dame, Ind.
metal chelates; heterocyclic compounds; infrared spectrometry; potentiometry; thermodynamics; hydrobenzimidazoles; synthesis; imidazoles; binding; ligands; benzimidazoles; amino acids

GM-10856 **VAN WINKLE, QUENTIN**, Ohio State Univ. Research Fdn., Columbus, Ohio
chlorophyll; monomolecular films; surface properties; emulsions; photochemistry; dipole moments; electron charge distribution

GM-10857 **FOSTER, JOSEPH F.**, Grad. Sch., Purdue Univ., Lafayette, Ind.
cell components..flagella; dissociation constants; heat lability; hydrogen-ion concentration; proteins; thermophiles

GM-10860 **KUPKE, DONALD W.**, Sch. Med., Univ. Virginia, Charlottesville, Va.
proteins; photosynthesis; chlorophyll; cell components.. chloroplasts; molecular structure

GM-10861 **BREY, WALLACE S., Jr.**, Grad. Sch., Univ. Florida, Gainesville, Fla.
amino acid; binding; hydration reactions; hydrogen bond; molecular structure; nuclear magnetic resonance; proteins; surface properties; temperature

GM-10863 **McELROY, W.D.**, Johns Hopkins Univ., Baltimore, Md.
luciferin; luminescence..chemiluminescence; fluorescence; flavin mononucleotides; synthesis; bacteria; phosphotransferases, luciferase

GM-10864 **CASSIDY, HAROLD G.**, Grad. Sch., Yale Univ., New Haven, Conn.
hydrogen-ion concentration; ion; membrane; molecular structure; oxidation-reduction; polymers; quinones; synthesis

GM-10865 **ALBRECHT, ANDREAS C.**, Grad. Sch., Cornell Univ., Ithaca, N.Y.
algae; cell components..chloroplasts; electron transport; freezing; 3-methylpentane; oxidation-reduction; photoconduction; photosynthesis; solutions..solid solutions

GM-10866 **HERSH, ROBERT T.**, Grad. Sch., Univ. Kansas, Lawrence, Kansas
cell components..ribosomes; plants; nucleases.. ribonucleases; proteases..peptidases; binding; aging; bacteria

GM-10867 **FREEMAN, HANS C.**, Sch. Chem., Univ. Sydney, Sydney, Australia
crystallization; ion; metal; metal complexes; peptides; x-ray structure analysis

GM-10869 **KEGELES, GERSON**, Grad. Sch., Clark Univ., Worcester, Mass.
acid; ampholytes; computer; diffusion; polymers; proteins; solutions

GM-10871 **BROWN, THEODORE L.**, Noyes Chem. Lab., Univ. Illinois, Urbana, Ill.
infrared spectrometry; metal; ion; chemical structure; nuclear magnetic resonance

GM-10872 **ARNETT, EDWARD M.**, Univ. Pittsburgh, Pittsburgh, Pa.
hydrogen bond; sulfides; thiols; disulfides; sulfoxides; carbonyl compounds; acid; equilibrium constants; thermodynamics; organic compounds; basic ionization constants; hydrogen transport

GM-10873 **BOX, HAROLD C.**, Roswell Park Memorial Inst., Buffalo, N.Y.
electron spin resonance spectroscopy; free radicals; nuclear magnetic resonance; peptides; proteins; radiation effects

GM-10875 **CARNELL, PAUL H.**, Albion Col., Albion, Mich.
membrane; membrane permeability

GM-10876 **RAYMOND, SAMUEL**, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
electrophoresis; gels; acrylamide; proteins

GM-10878 **BETHEIL, JOSEPH J.**, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
dyes; proteins; molecular structure; albumins..serum albumin; optical rotatory dispersion; collagen; enzymes substrate complex; nucleic acids; molecules..macromolecules; conjugates

GM-10879 **BROWN, GLENN H.**, Kent State Univ., Kent, Ohio
crystallography; instrumentation-methodology; liquid crystals; molecular structure

GM-10880 **YANG, JEN T.**, Univ. California Med. Ctr., San Francisco, Cal.
proteins; conformation (chemistry); solvents..nonaqueous solvents; chemical structure--biological activity; proteins denaturation

GM-10882 **APPLEQUIST, JON B.**, Fac. Pure Sci., Columbia Univ., New York, N.Y.
synthesis; polypeptides; poly--o--L--phenylglycine; poly--L--tyrosine; halogenated amino acids; molecular structure; optical rotatory dispersion; ultraviolet spectrometry; dipole moments

GM-10883 **BOGUCKI, RAYMOND F.**, Boston Col., Chestnut Hill, Mass.
chelating agents; equilibrium constants; ion; metal; metal chelates; thermodynamics

GM-10889 **HOWELL, THOMAS R.**, Univ. California, Los Angeles, Cal.
laboratory facilities; instrumentation

GM-10900 **WETLAUFER, DONALD B.**, Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
stability constants; non--polar molecules; solutions.. aqueous solutions; chemical bonds; molecular structure; conformations (chemistry); thermodynamics; proteins denaturation; proteins; hydrophobic bonds; anesthetics; bioenergetics

GM-10906 **GIBBS, JULIAN H., Brown Univ., Providence, R.I.**
polymers; polynucleotides; nucleotides; adsorption; mathematical models; genetics..chromosome replication; thermodynamics; polypeptides; proteins; soluble ribonucleic acid; fractionation; instrumentation--methodology

GM-10907 **BELFORD, R. LINN, Grad. Sch., Univ. Illinois, Urbana, Ill.**
metal chelates; binding; crystallography; spectrometry; temperature; cooper; vanadium

GM-10922 **LATIMER, PAUL H., Col. Sci., Lit., Auburn Univ., Auburn, Ala.**
pigments; light scattering; cell components..chloroplasts; viruses; blood cells..erythrocytes; optical rotatory dispersion; proteins; photosynthesis; algae; spectrometry; cytochrome

GM-10928 **KRAUT, JOSEPH, Sch. Sci., Eng., Univ. California, La Jolla, Cal.**
x--ray structure analysis; crystallography; proteins; molecules..macromolecules

GM-10932 **HOLLINGSWORTH, CHARLES A., Sch. Natural Sci., Univ. Pittsburgh, Pittsburgh, Pa.**
birefringence..streaming birefringence; liquid flow impedance; biomathematics; light scattering; suspensions (chemistry)

GM-10958 **DELAHAY, PAUL, Col. Chem., Physics, Louisiana State Univ., Baton Rouge, La.**
instrumentation--methodology; potentiometric titrations; electrolytes; oxygen; electrodes; coulostatic method; trace elements; potentials..zeta potential

GM-10961 **MYSELS, KAROL J., Grad. Sch., Univ. Southern California, Los Angeles, Cal.**
solutions..aqueous solutions; hydrophobic bonds; chemical bonds..bond cleavage; molecular structure; equilibrium constants; dimers; monomers; ionic strength; thermodynamics; sulphates

GM-10965 **GUILD, WALTER R., Sch. Med., Duke Univ., Durham, N.C.**
bacteria..Mycoplasma; deoxyribonucleic acid; transformation; genetics..genes; molecular structure; molecular weight; heat labilitv; stability constants

GM-10969 **LAZAROW, ARNOLD, Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
instrumentation-methodology; tissue component quantitator; cytology; cell components; instrumentation

GM-10975 **WINDWER, STANLEY, Adelphi Univ., Garden City, N.Y.**
biomathematics; mathematical models; polymers; stereochemistry; computer programming

GM-10991 **DAVIDSON, NORMAN, Grad. Sch., California Inst. Tech., Pasadena, Cal.**
nucleic acids; metal; ions; binding; proteins denaturation; deoxyribonucleic acid; molecular structure; molecules..macromolecules

GM-10992 **TAYLOR, EDWIN W., Univ. Chicago, Chicago, Ill.**
cell division..mitotic spindle; cell culture; proteins; molecular structure; birefringence; polypeptides; muscle.. myofibrils; colchicine; tritium; reaction sites

GM-10993 **BALDESCHWIELER, JOHN D., Grad. Sch., Harvard Univ., Cambridge, Mass.**
nuclear magnetic resonance; natural products; molecular structure; stereochemistry

GM-11043 **FOSS, JOHN G., Grad. Sch., Iowa State Univ., Ames, Iowa**
proteins; molecular structure; circular dichroism; conformations (chemistry); hydrogen bond; hydrophobic bonds; spectrophotometry; deoxyribonucleic acid

GM-11060 **BELLO, JAKE, Health Res., Incorporated, Buffalo, N.Y.**
ultraviolet spectrometry; ultraviolet spectropolarimetry; instrumentation; photomultiplier

GM-11070 **FENICHEL, I. ROBERT, Albert Einstein Med. Cr., Philadelphia, Pa.**
non--electrolytes; muscle..skeletal muscle; cell components..cell membrane; cell components..cytoplasm; solubility; diffusion; body water; narcotics; biomathematics; ether..ethyl ether; butanol; membrane permeability and transport; amides; alcohols; thiourea; urea; keratin; proteins; molecules..macromolecules

GM-11071 **BRANDTS, JOHN F., Grad. Sch., Univ. Massachusetts, Amherst, Mass.**
proteins; proteins denaturation; proteases..chymotrypsinogen; hydrophobic bonds; hydrogen bond; thermodynamics; peptides; conformation (chemistry); reaction sites

GM-11072 **ROBERTS, JOHN D., California Inst. Technology, Pasadena, Cal.**
stable isotope labeled nitrogen; nuclear magnetic resonance; instrumentation-methodology; organic compounds; molecular structure; solvents

GM-11122 **THOMPSON, THOMAS E., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
lipids; membrane..multilayer membranes; potentials.. membrane potentials; surface properties; chemical structure; membranes permeability; temperature; solutions.. aqueous solutions; membrane models

GM-11123 **PHILLIPSON, PAUL, Sch. Arts, Sci., Univ. Colorado, Boulder, Colo.**
molecular structure; electron charge distribution; molecular vibrations; binding; hydrogen; quantum mechanics

GM-11125 **KIVELSON, DANIEL, Col. Letters, Sci., Univ. California, Los Angeles, Cal.**
electron spin resonance spectroscopy; triplet state; molecular structure; heterocyclic compounds; nitrogen; hemoglobin; enzymes substrate complex; free radicals; photosynthesis; deoxyribonucleic acid; polymers; ultraviolet rays; radiation effects

GM-11127 **ROUGVIE, MALCOLM A., Grad. Sch., Iowa State Univ., Ames, Iowa**
keratins; molecular structure; fractionation; conformations (chemistry); feathers

GM-11158 **ANDERS, PAUL, Col. Arts, Sci., Seton Hall Univ., South Orange, N.J.**
polysaccharides; ionic bonds; binding; metals..divalent metals; solubility..water soluble; chemical structure--biological activity; polyelectrolytes; medicinal plants.. acacia; carrageenan; alkaline earth metals

GM-11159 **CORWIN, ALSOPH H., Johns Hopkins Univ., Baltimore, Md.**
instrumentation; gas chromatography hyperpressure; porphyrins

GM-11179 **HEXTER, ROBERT M., Mellon Inst., Pittsburgh, Pa.**
polypeptides; polynucleotides; deoxyribonucleic acid; conformations (chemistry); electronic spectra; hypochromism; proteins denaturation; hydrogen bond; atomic orbitals; molecules. macromolecules

GM-11180 **HEARST, JOHN E., Grad. Sch., Univ. California, Berkeley, Cal.**
deoxyribonucleic acid; thermodynamics; sedimentation constants; viscosity; hydration reactions; molecular structure; solvents; computer analysis

GM-11193 **WAMPLER, DALE L., Juniata Col., Huntingdon, Pa.**
metal complexes; biguanides; chemical structure; guanylureas

GM-11201 **DAYHOFF, MARGARET O., Natl. Biomedical Res. Fdn., Silver Spring, Md.**
crystallography; proteins; molecular structure; mathematical models; computer analysis

GM-11223 **WEBER, GREGORIO, Grad. Sch., Univ. Illinois, Urbana, Ill.**
bovine serum albumin; proteins; ion; fluorescence polarization; binding

GM-11231 **GIBSON, QUENTIN H., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
oxidoreductases..cytochrome oxidases; enzymes; enzymes substrate; reaction rates (chemistry); stoichiometry; instrumentation--methodology

GM-11233 **PFLAUM, RONALD T., Grad. Sch., State Univ. Iowa, Iowa City, Iowa**
atomic absorption spectrometry; instrumentation-methodology; metal; ion; tissue; body fluids; organic compounds; chemical structure

GM-11250 **THOMPSON, NOEL P., Palo Alto Med. Res. Fdn., Palo Alto, Cal.**
instrumentation; blood pressure; gastrointestinal motility; urinary tract motility; strain gage; semiconduction

GM-11292 **LORD, RICHARD C., Massachusetts Inst. Tech., Cambridge, Mass.**
conformations; deoxyribonucleic acid; hydration reactions; infrared spectrometry; laboratory facilities; molecular structure; nucleic acids; ribonucleic acid

GM-11293 **JEFFREY, GEORGE A., Sch. Natural Sci., Univ. Pittsburgh, Pittsburgh, Pa.**
carbohydrates; chemical structure; chemical structure--biological activity; conformations (chemistry); crystallography; disaccharides; hydrogen bond; monosaccharides

GM-11294 **KAUFMAN, ERNEST D., St. Mary's Col., Winona, Minn.**
collagen; hydrolysis; mutarotation; peptides; solvents; stereochemistry; synthesis

GM-11307 **LINDQVIST, INGVAR, Agriculture Col. Sweden, Uppsala, Sweden**
enzymes; metal complexes; dehydratases..carbonic anhydrase; zinc; dehydrogenases..alcohol dehydrogenase; molecular size; mathematical models; reaction sites; binding

GM-11315 **HIRSCHFELDER, JOSEPH O., Theoretical Chemistry Inst., Madison, Wis.**
biomathematics; prediction; molecules..macromolecules; chemical structure--biological activity; quantum mechanics; nucleic acids; proteins; computer analysis

GM-11337 **GLICK, R.E., Sch. Arts, Sci., Florida State Univ., Tallahassee, Fla.**
hydrogen bond; polypeptides; deuterium; thermodynamics; amides; molecular structure; nuclear magnetic resonance; oxygen; phosphates

GM-11341 **LIVINGTON, ROBERT S., Sch. Chem., Univ. Minnesota, Minneapolis, Minn.**
photochemistry; chlorophyll; pigments; oxidation; triplet state; photosensitivity

GM-11344 **CHESICK, JOHN P., Haverford Col. Haverford, Pa.**
olefins; acetylene; photochemistry; photosensitivity; gases..rare gases; metal; resonance; dimers

GM-11356 **DEGRAAF, DONADL E., Flint Col., Univ. Michigan, Flint, Mich.**
molecular structure; amino acids; cystine; instrumentation-methodology; disulfide bonds; polypeptides; proteins

GM-11390 **HANLON, MARY S., Chicago Med. Sch., Chicago, Ill.**
nucleosides (tides) bases; deoxyribonucleic acid; nucleic acids denaturation; putrescine; solvents..nonaqueous solvents; conformations (chemistry); tautomerism

GM-11411 **CROPPER, WILLIAM H., Sch. Eng., Columbia Univ., New York, N.Y.**
radiation effects; x--rays; colloids

BIOPHYSICS AND BIOPHYSICAL CHEMISTRY (CONTD)

GM-11411 **CROPPER, WILLIAM H., Sch. Eng., Columbia Univ., New York, N.Y.**
radiation effects: x-rays: colloids

GM-11432 **REESE, FLOYD E., Chico State Col., Chico, Cal.**
radiation effects; hydrogen bond; chemical bonds..bond cleavage; peptides; proteases..trypsin; proteases.. trysinogen; proteases..pepsin; proteases..pepsinogen; proteases..chymotrypsin; chemical structure--biological activity; deuterium; radioisotopes..cesium 137

GM-11439 **MACIEL, GARY E., Col. Letters, Sci., Univ. California, Davis, Cal.**
hydrogen bond; chemical bonds; stable isotope labeled carbon; protons; stable isotope labeled phosphorus; solvents..nonaqueous solvents; temperature; synthesis; fluorinated compounds; hydroxyl groups; nuclear magnetic resonance

GM-11463 **WORONICZ, CHARLES L., Brown Univ., Providence, R.I.**
amides; binding; coenzymes; computer analysis; dehydrogenases..alcohol dehydrogenase; dissociation constants; electron charge distribution; enzymes inhibitors; enzymes substrate complex; liver; reaction sites

GM-11473 **KELLER, RICHARD A., Grad. Sch., Univ. Oregon, Eugene, Ore.**
liquid state (chemistry); photoconduction; semiconduction; anthracenes; naphthalenes; solid state (chemistry)

GM-11526 **SCHUBERT, LEO, Col. Arts, Sci., The American Univ., Washington, D.C.**
chemical structure; cryoscopy; fluorescence; organic compounds; phosphorescence; solvents..nonaqueous solvents; temperature; viscosity

GM-11531 **DEWAR, MICHAEL J.S., Grad. Sch., Univ. Chicago, Chicago, Ill.**
biomathematics: computer analysis: conjugates: electronic spectra: molecular orbitals: organic compounds: theory: triplet state

GM-11535 **KARMEN, ARTHUR, Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
instrumentation-methodology; gas chromatography; bioassay; tritium; radiolabeled carbon; organic compounds; hormones; fatty acids

GM-11572 **HUTCHINSON, FRANKLIN, Grad. Sch., Yale Univ., New Haven, Conn.**
deoxyribonucleic acid; field ion microscopy; genetics.. genetic coding: instrumentation

GM-11573 **GORIN, GEORGE, Col. Arts, Sci., Oklahoma State Univ., Stillwater, Okla.**
amidases..urease; chemical structure; deoxyribonucleic acid; diffusion; laboratory facilities; molecular shape; molecular weight; proteins; wheat

GM-11577 **DEARBORN, CURTIS H., Univ. Alaska, Palmer, Alaska**
instrumentation; photobiology; plants; growth; geographical sites..Alaska; environment; computer analysis; solar radiation; spectrometry; geographical sites.. Missouri; geographical sites..Venezuela

GM-11578 **KLEMPERER, WILLIAM A., Faculty Arts, Sci., Harvard Univ., Cambridge, Mass.**
chemical bonds; halides; infrared spectrometry; instrumentation-methodology; ion; solution; solvents

GM-11630 **BEAMS, JESSE W., Univ. Virginia, Charlottesville, Va.**
instrumentation; ultracentrifugation; magnetic field; molecular weight

GM-11644 **WEIGANG, OSCAR E., Jr., Tulane Univ., New Orleans, La**
molecular orbits; optical rotatory dispersion; organic compounds: triplet state: electronic spectra: molecular vibrations; dipole moments; synthesis; heterocyclic compounds

GM-11653 **ABRAHAMSSON, SIXTEN, Inst. Medical Biochemistry, Goteborg, Sweden**
unsaturated fatty acids: alcohols: esters: glycerides; phospholipids: cell components..cell membrane: molecular structure: fatty acids: cholesterol esters

GM-11670 **KUWANA, THEODORE, Sch. Letters, Sci., Univ. California, Riverside, Cal.**
criteria; electrolysis; luminescence..chemiluminescence; luminol

GM-11683 **ORTTUNG, WILLIAM H., Col. Letters, Sci., Univ. California, Riverside, Cal.**
proteins; molecular structure; hemoglobin; oxyhemoglobin; methemoglobin; myoglobin; solutions; dipole moments; chromophores; birefringence; instrumentation--methodology

GM-11689 **HOFFMAN, JOSEPH G., Col. Arts, Sci., State Univ. New York, Buffalo, N.Y.**
cell components..cell membrane; cell division..mitosis; cell water; deuterium oxide; HeLa cells; membrane permeability

GM-11712 **SLUTSKY, LEON J., Grad. Sch., Univ. Washington, Seattle, Wash.**
chemical bonds; molecular structure; polyelectrolytes; polypeptides; solutions; ultrasonics

GM-11724 **LAZARE, LEON, New York Univ., N.Y.C.**
thermodynamics; osmotic pressure; membrane permeability and transport: ion exchange and transport: styrene: PVP: solutions..aqueous solutions

GM-11730 **HART, HIRAM, Grad. Sch. Liberal Arts, Sci., City Col., Univ. New York, New York, N.Y.**
Soret zone plates; x--ray microscopy lenses; radiation effects; cellular components; instrumentation; molecular films..monomolecular films

GM-11740 **KEILIN, JOAN, Cambridge Univ., Cambridge, England**
heme; heme-proteins; iron; metal complexes; proteins; molecular structure: functional groups: chemical structure --biological activity

GM-11741 **LOACH, PAUL A., Col. Arts, Sci., Northwestern Univ., Evanston, Ill.**
photosynthesis; oxidation--reduction..cell components, chloroplasts; pigments; biological models; chromatophores; ligands; manganese

GM-11742 **SJOSTRAND, FRITIOF S., Col. Letters, Sci., Univ. California, Los Angeles, Cal.**
cell components..cell membrane; chemical structure--biological activity; molecular structure; cell differentiation; enzymes

GM-11749 **COX, DAVID J., Col. Arts, Sci., Univ. Texas, Austin, Tex.**
proteins; solutions; hydration reactions; binding; deuterium oxide

GM-11751 **COLLAT, JUSTIN W., Ohio State Univ., Columbus, Ohio**
5,6--dimethylbenzimidazole cobamide; oxidation--reduction; chemical bonds; cobalt; carboxylic acids; hydrolysis; deuterium; solvents

GM-11752 **CLARKE, GEORGE A., Col. Arts, Sci., State Univ. New York, Buffalo, N.Y.**
pyrimidine; iodine; solutions; equilibrium constants; thermodynamics; electron donors; electron acceptors; molecular orbitals; reaction sites; spectrometry

GM-11762 **SCHRIER, EUGENE E., Harpur Col., State Univ. New York, Binghamton, N.Y.**
electrolytes; solutions..aqueous solutions; carboxylic acids; polymers; molecular structure; chemical bonds; proteins; nucleases..ribonucleases; function groups; thermodynamics; conformations (chemistry); proteins denaturation; salts; amides

GM-11766 **HERCULES, DAVID M., Massachusetts Inst. Technology, Cambridge, Mass.**
photochemistry; luminescence..chemiluminescence; oxidation--reduction; free radicals; benzophenone; luminol; fluorescence; phosphorescence; aromatic compounds; metal chelates

GM-11768 **FRATIELLO, ANTHONY, Grad. Sch., Los Angeles State Col., Los Angeles, Cal.**
solutions..aqueous solutions; ions; alkali metals; alkaline earth metals; pyridine; formamides; N,N--dimethyl formamide; solvents; polar molecules; instrumentation--methodology; molecular structure; functional groups; liquid state (chemistry); amines

GM-11783 **STRYER, LUBERT, Sch. Med., Stanford Univ., Palo Alto, Cal.**
chromophores; fluorescence; functional groups; molecular structure; polypeptides; stereochemistry; synthesis

GM-11784 **RAPPORT, MAURICE M., Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.**
lipids; proteins; functional groups; chemical structure--biological activity; surface properties; membrane; molecular structure

GM-11797 **RUBENSTEIN, IRWIN, Grad. Sch., Yale Univ., New Haven, Conn.**
deoxyribonucleic acid; laboratory facilities; molecular weight; sedimentation constants; viruses..bacteriophage; viscosity

GM-11812 **LASKOWSKI, MICHAEL, Jr., Sch. Sci., Purdue Univ., Lafayette, Ind.**
proteins; solutions; proteases..trypsin; enzymes inhibitors ..trypsin inhibitors; equilibrium constatns; hydrogen-ion concentration; binding; protons; reaction rates (chemistry); enzymes complexes: dissociation constants

GM-11815 **FATELEY, WILLIAM G., Mellon Inst., Pittsburgh, Pa.**
hydrogen bond; infrared spectrometry; instrumentation-methodology; molecular energy levels; molecular vibrations: potentials

GM-11842 **HUNTER, MARGARET J., Univ. Michigan, Ann Arbor, Mich.**
proteins: insulin: albumins: mercaptalbumin: amidination; functional groups; molecular structure; iodine

GM-11852 **WILSKA, ALVAR P., Col. Liberal Arts, Univ. Arizona, Tucson, Ariz.**
cell; electron microscopy; instrumentation-methodology; molecular structure: proteins

GM-11906 **MILLER, STANLEY L., Sch. Sci., Eng., Univ. California, San Diego, La Jolla, Cal.**
anesthetics; electrophysiology; gases; hydration reactions; nerve impulse transmission: neuromuscular junction

GM-11921 **KAUZMANN, WALTER, Frick Chemical Lab., Princeton Univ., Princeton, N.J.**
mechanical pressure; proteins denaturation; solutions.. aqueous solutions; hydrogen bond; molecular rearrangement; conformations (chemistry); water; proteins

GM-11948 **RICHARDS, FREDERIC M., Grad. Sch., Yale Univ., New Haven, Conn.**
research programs; laboratory facilities; proteins; chemical structure--biological activity; functional groups; molecular structure; crystallography; nucleases.. ribonucleases; hydrophobic bonds; bacteria; transformation; deoxyribonucleic acid; enzymes; enzymes models; enzymes substrate complex; synthesis; conformations (chemistry); bacteria..Mycoplasma; growth, micro-

organisms; mutations; bacteria..Escherichia coli; genetics..genes; transfer ribonucleic acid; enzymes inhibitors; viruses..bacteriophage; phosphomonoesterases.. alkaline phosphatases; genetics..chromosomes; genetics.. recombination; bacteria..Bacillus subtilis; proteases; metallo-proteins; binding; insulin; catalase; copper; molecular weight; tissue culture; cell division..mitosis; radiation effects

GM-11979 **BEAUDET, ROBERT A.**, Grad. Sch., Univ. Southern California, Los Angeles, Cal.
instrumentation-methodology; molecular structure; conformations (chemistry); propylene; microwave spectrometry

GM-11982 **VAN DER HELM, DICK**, Univ. Oklahoma Res. Inst., Norman, Okla.
terpenoids; crystallography; invertebrates; marine biology; molecular structure; bactericides; lactones

GM-11984 **DIVEN, WARREN F.**, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
amino acids; racemization; isomerases..glutamate racemase; bacteria..Lactobacillus fermenti; flavoprotein enzymes; flavins; binding; pyridoxal phosphate; conformations (chemistry)

GM-11987 **KENT, ALLEN**, Univ. Pittsburgh, Pittsburgh, Pa.
documentation systems; classification; computer programming; pyrimidines; carbohydrates; molecular structure; instrumentation--methodology

GM-12000 **PERRIN, CHARLES**, Sch. Sci., Eng., Univ. California, San Diego, La Jolla, Cal.
phthalocyanines; instrumentation-methodology; molecular orbitals; oxidation-reduction; metal complexes; synthesis

GM-12006 **RICHARDS, FREDERIC M.**, Grad. Sch., Yale Univ., New Haven, Conn.
enzymes; solutions; solid state (chemistry); chemical structure--biological activity; crystallography; surface properties; functional groups; heavy metals; nucleases..ribonucleases; proteases..carboxypeptidases

GM-12009 **HARTLEY, ARNOLD M.**, Col. Arts, Sci., Univ. Illinois, Urbana, Ill.
oxidation-reduction; electrochemistry; photochemistry; free radicals; electrodes; pyridine; ketones

GM-12013 **MILLER, IRVING F.**, Polytechnic Inst., Brooklyn, N.Y.
kidney..artificial kidney; instrumentation; membrane permeability and transport; hemodialysis; ion exchange and transport; membrane..prosthetic membranes; mathematical models; computer analysis; electrodialysis

GM-12032 **RASHEVSKY, NICOLAS**, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
biomathematics; mathematical models; nerve impulse transmission; automobile accidents..drivers; social behavior; nervous system..central nervous system

GM-12050 **HAMMES, GORDON G.**, Massachusetts Inst. Technology, Cambridge, Mass.
laboratory facilities; molecules..macromolecules; conformations (chemistry); nucleic acids; enzymes; proteins; instrumentation-methodology; optical rotatory dispersion

GM-12054 **JEHLE, HERBERT**, Col. Arts, Sci., George Washington Univ., Washington, D.C.
molecular structure; cell components; London-Van der Waal's forces; molecular biology

GM-12063 **TIEN, H. TI**, Sch. Liberal Arts, Northeastern Univ., Boston, Mass.
membranes..multilayer membranes; solutions.. aqueous solutions; synthesis; cell components.. cell membrane; chemical structure--biological activity; lipids; membrane permeability and transport; potentials..membrane potentials; molecular structure

GM-12082 **O'KONSKI, CHESTER T.**, Grad. Sch., Univ. California, Berkeley, Cal.
molecules..macromolecules; deoxyribonucleic acid; bovine serum albumin; β-amylose; iodine; solutions.. aqueous solutions; molecular structure; birefringence; dichroism; dielectric dispersion; instrumentation-methodology

GM-12083 **TAKASHIMA, SHIRO**, Moore Sch. Elec. Eng., Univ. Pennsylvania, Philadelphia, Pa.
deoxyribonucleic acid; dipole moments; dielectric dispersion; polyamines; hydrogen bond; molecular weight; instrumentation-methodology

GM-12084 **LION, KURT S.**, Massachusetts Inst. Techology, Cambridge, Mass.
instrumentation-methodology; gases; chemical structure; electron recording

GM-12085 **STEINHARDT, JACINTO**, Grad. Sch., Georgetown Univ., Washington, D.C.
proteins; binding; hydrophobic bonds; stability constants; conformations (chemistry); chemical structure..biological activity; ion..anion; ion..cation; buffers; radiolabeled carbon

GM-12086 **ROSENTHAL, DONALD**, Clarkson Col. Technology, Potsdam, N.Y.
hydrolysis; acetals; reaction rates (chemistry); saline solutions; criteria

GM-12099 **GARRETT, EDWARD R.**, Col. Pharm., Univ. Florida, Gainesville, Fla.
centrifugation; emulsions; oils; solutions..aqueous solutions; stability constants

GM-12101 **PLATT, JOHN R.**, Univ. Chicago, Chicago, Ill.
molecules..macromolecules; biological models; molecular structure; conformations (chemistry); stereochemistry; visual perception; photobiology; eye..retina; electroretinography; sensory mechanisms; nervous system

GM-12113 **SNYDER, EUGENE I.**, Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.
conformations (chemistry); alkanes; molecular structure; mathematical models; isomers; instrumentation--methodology; thermodynamics; substitution reactions (chemistry)

GM-12116 **BIRNBOIM, MEYER H.**, Mellon Inst., Pittsburgh, Pa.
molecules..macromolecules; viscoelasticity; solutions; conformations (chemistry); molecular shape; viscosity; viruses..tobacco mosaic virus; collagen; instrumentation-methodology; styrene

GM-12118 **KRISHER, LAWRENCE C.**, Inst. Molecular Physics, Univ. Maryland, College Park, Md.
spectrometry; instrumentation-methodology; lasers; molecular structure; organic compounds; molecular vibrations; chemical bonds

GM-12120 **WEINSTEIN, BORIS**, Grad. Sch., Stanford Univ., Stanford, Cal.
amino acids; dipeptides; instrumentation-methodology; mass spectrometry; gas chromatography

GM-12121 **DICKERSON, RICHARD E.**, California Inst. Technology, Pasadena, Cal.
cytochrome c; phosphotransferases..ATP:AMP phosphotransferase; chemical structure--biological activity; instrumentation-methodology; molecular structure; functional groups; enzymes substrate complex; binding; crystallography; stereochemistry

GM-12122 **BOSE, AJAY K.**, Stevens Inst. Technology, Hoboken, N.J.
instrumentation-methodology; mass spectrometry; stable isotope labeled; reaction sites; antibiotics; acetates; alkaloids; microorganisms; stable isotope labeled carbon

GM-12173 **BUNNENBERG, EDWARD**, Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.
instrumentation-methodology; optical rotatory dispersion; ultraviolet spectropolarimetry; laboratory facilities; molecular structure; computer analysis

GM-12174 **BRANDT, WERNER W.**, Illinois Inst. Technology, Chicago, Ill.
polymers; vapors; temperature; thermodynamics

GM-12176 **SANDS, RICHARD H.**, Grad. Sch., Univ. Michigan, Ann Arbor, Mich.
oxidation--reduction; instrumentation--methodology; electron paramagnetic resonance; flavoprotein enzymes; electron transport; flavin; semiquinones; functional groups; ligands; oxidoreductases..glucose oxidase; oxidoreductases..glycolate oxidase; oxidoreductases.. L--amino acid oxidase; oxidoreductases..xanthine oxidase; oxidoreductases..dihydro--orotate dehydrogenase; oxidoreductases..lipoate dehydrogenase; bacteria..Escherichia coli; bacteria..Zymobacterium oroticum; fungi..yeasts; fungi..Aspergillus niger

GM-12177 **LYLE, ROBERT E.**, Grad. Sch., Univ. New Hampshire, Durham, N.H.
pyridine; charge transfer complexes; iodine; optical rotatory dispersion; reaction sites; stereochemistry; NAD; ion

GM-12205 **CAGLE, FREDRIC W., Jr.**, Col. Letters, Sci., Univ. Utah, Salt Lake City, Utah
crystallography; organic compounds; molecular structure; biomathematics; computer analysis

GM-12209 **FEICK, JOHN R.**, St. Anselm's Col., Manchester, N.H.
instrumentation--methodology; heat lability; photochemistry; cell death; microbial culture; algae..Chlorella; growth inhibitors; light emission; photocoagulation

GM-12253 **FOX, DAVID**, Col. Arts, Sci., State Univ. New York, Stony Brook, L.I., N.Y.
crystallography; polymers; photoconduction; quantum mechanics; reaction sites; triplet state

GM-12275 **KE, BACON**, Charles F. Kettering Fdn., Res. Lab., Yellow Springs, Ohio
photosynthesis; pigments; chlorophyll; carotenes; proteins; molecular films..monomolecular films

GM-12281 **DUNN, FLOYD**, Col. Eng., Univ. Illinois, Urbana, Ill.
ultrasonics; instrumentation--methodology; thermodynamics; tissue; molecules..macromolecules

GM-12282 **HOFFMAN, MORTON Z.**, Grad. Sch., Boston Univ., Boston, Mass.
water; liquid state (chemistry); radiation effects; photochemistry; mercury; photosensitivity

GM-12284 **CURRAN, DAVID J.**, Grad. Sch., Univ. Massachusetts, Amherst, Mass.
instrumentation; potentiometric titrations; bioassay; organic compounds

GM-12286 **MUELLER, ERWIN W.**, Col. Sci., Pennsylvania State Univ., University Park, Pa.
field ion microscopy; instrumentation--methodology; molecules..macromolecules; molecular structure

GM-12299 **EDMONDS, PETER D.**, Moore Sch. Eng., Univ. Pennsylvania, Philadelphia, Pa.
ultrasonics; instrumentation--methodology; molecules..macromolecules; proteins; tissue; solutions

GM-12306 **PAPPAS, SOCRATES P.**, Grad. Sch. Arts, Sci., Brandeis Univ., Waltham, Mass.
molecular structure; molecular rearrangement; flavins; pyridines; dimers; NAD; synthesis; oxidation--reduction; electronic spectra

(cont'd)

BIOPHYSICS AND BIOPHYSICAL CHEMISTRY (CONTD)

GM-12307 STRAUSS, ULRICH P., Col. Arts, Sci., Rutgers Univ., New Brunswick, N.J.
polyelectrolytes: ions..cation binding; deoxyribonucleic acid; polyphosphates; sulfonates; acrylates; polycarboxylic acids; alkali metals; alkaline earth metals

GM-12327 MAKI, AUGUST H., Col. Letters, Sci., Univ. California, Riverside, Cal.
heterocyclic compounds; crystallography; molecular structure; triplet state; electron spin resonance spectroscopy; phosphorescence; fluorescence; electronic spectra

GM-12343 SALEM, LIONEL, Lab. de Chimie Physique, Fac. Sci., Orsay, France
chemical bonds; molecular structure; electron charge distribution; binding; benzene; molecular vibrations; lipoproteins; cell components..cell membrane; cell components..mitochondria; electron transport; quantum mechanics; crystallography

GM-12368 JASPER, JOSEPH J., Col. Liberal Arts, Wayne State Univ., Detroit, Mich.
instrumentation--methodology; molecular films; surface properties; solutions..multicomponent solutions; proteins; lipids; phospholipids

GM-12376 HYBL, ALBERT, Sch. Med., Univ. Maryland, Baltimore, Md.
cell components..cell membrane; crystallography; molecular structure; chemical structure--biological activity; membrane permeability and transport; stereochemistry; conformations, chemistry; instrumentation--methodology

GM-12382 ELLIOTT, WILLARD B., Sch. Med., State Univ. New York, Buffalo, N.Y.
spectrophotometry; instrumentation--methodology; cell components..mitochondria; liver; heart; electron transport; digitonin; oxidative phosphorylation

GM-12383 SCHMIDT, V. HUGO, Montana State Col., Bozeman, Mont.
electrical conductance; protons; deuterons; crystallography; molecular structure; hydrogen bond; Hall effect; instrumentation--methodology; tritium

GM-12394 BEINERT, HELMUT, Inst. Enzyme Res., Univ. Wisconsin, Madison, Wis.
instrumentation--methodology; electron paramagnetic resonance; metallo--proteins; electron transport; oxidation--reduction; enzymes; metal complexes; iron; copper; molybdenum; semiquinones; free radicals; flavoprotein enzymes; flavins; cell components; mitochondria; bacteria..Azotobacter vinelandii; photosynthesis; binding; radioisotopes; stable isotopes; molecular structure; nitrogen fixation

GM-12396 ALEXANDER, LEROY E., Mellon Inst., Pittsburgh, Pa.
crystallography; x--ray diffraction; polymers; molecular structure; stereochemistry; acrylates; nylon

GM-12415 SHAPIRO, BERNARD L., Illinois Inst. Technology, Chicago, Ill.
nuclear magnetic resonance; isomers; molecular rearrangement; ketones; instrumentation--methodology

GM-12446 COHN, MILDRED, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
instrumentation--methodology; nuclear magnetic resonance; molecules..macromolecules; metal complexes; enzyme substrate complex; manganese; enzymes; solutions ..aqueous solutions

GM-12447 BATES, ROBERT B., Grad. Sch., Univ. Arizona, Tucson, Arizona
instrumentation--methodology; x--ray diffraction; natural products; molecular structure; plants; medicinal plants; fungi; antineoplastic agents; antibiotics; insecticides; hallucinogens

GM-12468 COLEBROOK, L.D., Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.
nuclear magnetic resonance; instrumentation--methodology; acetylene; molecular structure; molecular orbitals; chemical bonds; metabolites; fungi; natural products

GM-12469 RIPPERGER, E.A., Col. Eng., Univ. Texas, Austin, Tex.
injuries..burns; skin; temperature; instrumentation--methodology

GM-12470 PAUL, IAIN C., Grad. Sch., Univ. Illinois, Urbana, Ill.
x--ray structure analysis; crystallography; proteins; enzymes; peptides; enzyme substrate; enzyme inhibitors; metal chelates; chemical structure--biological activity; conformations (chemistry)

GM-12471 GARDINER, W.C., Jr., Col. Arts, Sci., Univ. Texas, Austin, Tex.
electron spin resonance; instrumentation; free radicals

GM-12472 DEVLIN, J. PAUL, Sch. Arts, Sci., Oklahoma State Univ., Stillwater, Okla.
molecular structure; chemical bonds; hydrogen bond

GM-12504 JOHNSON, CHARLES S., Jr., Grad. Sch., Yale Univ., New Haven, Conn.
electron spin resonance; nuclear magnetic resonance; instrumentation--methodology; electron transport; reaction rates, chemistry; solutions; free radicals; quinones; semiquinones

GM-12530 ROGERS, MAX T., Michigan State Univ., East Lansing, Mich.
nuclear magnetic resonance; molecular structure; isomers; conformations, chemistry; amides; solutions; temperature; hydrogen bonds; chemical bonds; peptides; instrumentation--methodology

GM-12553 BUSH, IAN E., Worcester Fdn. Exptl. Biol., Shrewsbury, Mass.
instrumentation--methodology; diagnostic tests; paper chromatography

GM-12555 BLOOMFIELD, VICTOR A., Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
ribonucleic acid; deoxyribonucleic acid; cyclic compounds; chemical bonds..bond cleavage; viscosity; hydrodynamics; solutions; chemical structure--biological activity; biomathematics; molecular weight; sedimentation constants; viruses.. bacteriophage ØX174; polymerases

GM-12556 ROSENBERG, ROBERT M., Lawrence Col., Appleton, Wis.
proteins; albumins..serum albumin; myoglobin; piperazines; ethanol; urea; conformations (chemistry); molecular shape; hydrophobic bonds; deuterium

GM-12569 KUPKE, DONALD W., Sch. Med., Univ. Virginia, Charlottesville, Va.
viruses; enzymes complexes; instrumentation--methodology; sedimentation equilibrium; molecular shape; molecular weight; molecular volume; thermodynamics; densitometry

GM-12592 HOCHSTRASSER, ROBIN M., Univ. Pennsylvania, Philadelphia, Pa.
photochemistry; organic compounds; solid state (chemistry); molecules; singlet state; triplet state; luminescence; electronic spectra; phenanthrenes; anthracenes; lasers

GM-12608 TAFT, ROBERT W., Col. Sci., Pennsylvania State Univ., University Park, Pa.
hydrogen bond; nuclear magnetic resonance; p--fluorophenol; acid--base equilibrium; electron charge distribution; instrumentation--methodology; biomathematics; molecular structure

GM-12616 BLATZ, PAUL E., Grad. Sch., Univ. Wyoming, Laramie, Wyo.
polymers; semiconduction; molecules..macromolecules; protonation; photoconduction; chemical bonds; conjugated systems

GM-12737 MOULTON, GRACE C., Sch. Arts, Sci., Florida State Univ., Tallahassee, Fla.
free radicals; electron spin resonance spectroscopy; organic compounds; radiation effects; x--rays; ultraviolet rays; crystallography

GM-12744 WILHOIT, RANDOLPH C., Col. Arts, Sci., Texas A.M. Univ., College Station, Tex.
thermodynamics; carboxylic acids; publications..literature survey; instrumentation; calorimetry; amino acid; heterocyclic compounds; nitrogen; information exchange; organic compounds; Krebs cycle; heat of solution

GM-12755 McLAFFERTY, FRED W., Sch. Sci., Purdue Univ., West Lafayette, Ind.
mass spectrometry; instrumentation--methodology; organic compounds; molecular structure; computer analysis; bioassay; chemical structure--biological activity; laboratory facilities

GM-12786 HAM, JOE S., Col. Arts, Sci., Texas AM Univ., College Station, Tex.
gels; polymers; solutions..aqueous solutions; partition chromatography; thermodynamics; solutions..non--polar solutions; plastics.. styrene; Sephadex gel filtration

GM-12794 HARPST, JERRY A., Sch. Med., Western Reserve Univ., Cleveland, Ohio
light scattering; deoxyribonucleic acid; molecular weight; reaction rates (chemistry); instrumentation--methodology; viruses..bacteriophage T; membrane filters; diffusion; deoxyribonucleic acid replication

GM-12798 PIETTE, LAWRENCE H., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii
instrumentation--methodology; electron spin resonance; free radicals; proteins; amino acids; triplet state; metal complexes; enzymes; research programs

GM-12806 GUTTMAN, DAVID E., Sch. Pharm., State Univ. New York, Buffalo, N.Y.
albumins..serum albumins; binding; xanthine; thermodynamics; molecular structure; imidazole--4--carboxamides; hypoxanthine; uric acid; caffeine; guanines; riboflavin; isoalloxazine; charge transfer complexes

GM-12862 EYRING, HENRY, Grad. Sch., Univ. Utah, Salt Lake City, Utah
chemical structure--biological activity; enzymes; proteins; adenosine; inosine; instrumentation--methodology; conformations (chemistry); reaction rates (chemistry); chelation; metals; hydrogen--ion concentration; optical rotation; optical rotatory dispersion; cotton effect; sulfhydryls

GM-12877 RABINOWITCH, EUGENE, Grad. Col., Univ. Illinois, Urbana, Ill.
photochemistry; photosynthesis; algae; fluorescence; instrumentation--methodology; chlorophyll; phycobilins

GM-12886 ZOGRAFI, GEORGE, Col. Pharm., Univ. Michigan, Ann Arbor, Mich.
phenothiazines; chlorpromazine; surface properties; membrane permeability and transport; membrane models; molecular films..monomolecular films; chemical structure--biological activity

GM-12894 **MARTELL, ARTHUR E., Grad. Sch. Chem., Illinois Inst. Technology, Chicago, Ill.**
laboratory facilities; computer analysis; electronic spectra; dissociation constants; stability constants; chelating agents; reaction rates (chemistry); ion exchange and transport; biomathematics; quantum mechanics

GM-12916 **WILSON, WALTER L., Col. Sci., Eng., Oakland Univ., Rochester, Mich.**
cells; electrodes..microelectrodes; electron charge distribution; acid; bases; anesthetics; ultraviolet rays; x--rays; instrumentation

GM-12925 **FRODYMA, MICHAEL M., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii**
thin layer chromatography; column chromatography; amino acids; ultraviolet spectrometry; infrared spectrometry; isotope dilution (concentration) techniques; instrumentation--methodology

GM-12985 **IBERS, JAMES A., Col. Arts, Sci., Northwestern Univ., Evanston, Ill.**
oxygen; binding; metals; metal chelates; oxygen transport; biological models; synthesis; crystallography

GM-12986 **COREY, ROBERT B., California Inst. Tech., Pasadena, Cal.**
proteases..chymotrypsin; proteases..trypsin; carbohydrases..lysozyme; enzyme complexes; enzyme inhibitors; enzyme substrate; crystallization; crystallography; chemical structure--biological activity

GM-13190 **ONSAGER, LARS, Grad. Sch., Yale Univ., New Haven, Conn.**
electrolytes; ion exchange and transport; dielectric constants; solutions association; mathematical models

GM-13191 **FEHER, GEORGE, Univ. California, La Jolla, Cal.**
photosynthesis; bioenergetics; biophysics; electron spin resonance; electronic spectra; free radicals; uroporphyrins; photochemistry; reduction; deuterium; bacteria..Rhodospirillum rubrum; bacteria..photosynthetic bacteria

GM-13203 **NIELSEN, SIGURD O., Danish Atomic Energy Comm. Res. Establishment, Riso, Denmark**
hydrogen; radioisotopes; ion exchange and transport; deuterium; tritium; proteins; solutions..aqueous solutions; conformations (chemistry)

GM-13205 **WEISSMAN, SAMUEL I., Sch. Arts, Sci., Washington Univ., St. Louis, Mo.**
instrumentation--methodology; nuclear magnetic resonance; enzyme substrate; oxidoreductases.. succinate dehydrogenase; catechol; free radicals; polymers; solutions

GM-13212 **CHAN, SUNNEY I., California Inst. Tech., Pasadena, Cal.**
hydrogen bond; deuterium; chemical bonds; reaction rates.. fast reactions

GM-13253 **PORTER, RICHARD N., Grad. Sch., Univ. Arkansas, Fayetteville, Ark.**
molecular energy levels; hydrogen; deuterium; reaction rates (chemistry); thermodynamics; computer programming

GM-13545 **BALDESCHWIELER, JOHN D., Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.**
molecular structure; nuclear magnetic resonance; electron paramagnetic resonance; electromagnetic fields; instrumentation--methodology

HD-00826 **BALIN, HOWARD, Pennsylvania Hosp., Philadelphia, Pa.**
ovary; temperature; primates..Macaca mulatta; radiosonde; ovulation; endoscopy

HD-01229 **DOTY, PAUL, Harvard Univ., Cambridge, Mass.**
molecular structure; deoxyribonucleic acid; ribonucleic acid; deoxyribonucleic acid replication; transformation; bacteria..Bacillus subtilis; bacteria..Hemophilus influenzae

HD-01246 **KAPLAN, NATHAN O., Grad. Sch., Brandeis Univ., Waltham, Mass.**
education..postgraduate education; growth; histogenesis; cancer chemotherapy; radiation effects; diagnostic tests; carcinogenesis

HD-01249 **BETTELHEIM, FREDERICK A., Grad. Sch., Adelphi Col., Garden City, N.Y.**
polymers; mucopolysaccharides; thermodynamics; molecular structure; functional groups; instrumentation; binding; surface properties; water; deuterium oxide; hydration reactions; proteins; conjugates; chondroitin sulfate; heparin; lipids; proteases..trypsin; solvents.. nonaqueous solvents; molecular films..monomolecular films; mucin; light scattering; birefringence

HD-01257 **GEIDUSCHEK, E. PETER, Univ. Chicago, Chicago, Ill.**
deoxyribonucleic acid; chemical structure; nucleoproteins; nucleic acids denaturation; fractionation; transformation; bacteria; nitrogen mustards; nitrous acid; genetics.. chromosomes

HD-01267 **LANGRIDGE, ROBERT, Children's Cancer Res. Fdn., Boston, Mass.**
nucleoproteins; cell components..ribosomes; x--ray diffraction; bacteria..Escherichia coli; ribonucleic acid; viruses..bacteriophage; viruses..reoviruses; molecular structure

HD-01410 **ZEITZ, LOUIS, Sloan Kettering Inst., New York, N.Y.**
instrumentation--methodology; x--ray spectrometry; fluorescence spectrometry; deoxyribonucleic acid; nucleosides (tides) base analogs; substitution reactions (chemistry); 5--bromouracil; halopurines; halopyrimidines; prostate; prostate fluid; reproductive system, male; spermatozoa; zinc; halogenated compounds; sulfur

HD-01918 **MOORE, RICHARD D., State Univ. Col., Plattsburgh, N.Y.**
oxytocin; vasopressin; membrane permeability and transport; reaction sites; electron charge distribution; hormones analogs

HE-01253 **SCHWAN, HERMAN P., Moore Sch. Elec. Eng., Univ. Pennsylvania, Philadelphia, Pa.**
ultrasonics; molecules..macromolecules; potentials.. membrane potentials; membrane permeability and transport; electrophysiology; electrophoresis; membrane; electrical conductance; electrical fields..alternating electrical fields

HE-01662 **SCHERAGA, HAROLD A., Cornell Univ., Ithaca, N.Y.**
blood coagulation..fibrinogen; blood coagulation.. fibrin; blood coagulation..thrombin; chemical structure; elasticity; monomers; polymerization

HE-01882 **LAWRENCE, JOHN H., Univ. California, Berkeley, Cal.**
lipoproteins..serum lipoproteins; chemical structure; fatty acids; gas chromatography; infrared spectrometry; electron microscopy; ultracentrifugation

HE-02143 **COREY, ROBERT B., Grad. Sch., California Inst. Tech., Pasadena, Cal.**
amides; amino acid; molecular structure; peptides; proteins; x-ray diffraction

HE-02218 **WALTER, JOSEPH L., Univ. Notre Dame, Notre Dame, Ind.**
amino acids; aspartic acid; binding; glutamates; metal complexes; valine; imidazoles; EDTA

HE-02342 **JORDAN, JOSEPH, Col. Sci., Pennsylvania State Univ., University Park, Pa.**
electron transport; electrodes; instrumentation--methodology; polarography; oxidation--reduction; ferrocene; porphyrins; metal complexes; iron; cobalt; manganese; heme; hemins; hemoglobin; functional groups; biological models

HE-02739 **BRESLOW, ESTHER M., Col. Med., Cornell Univ., New York, N.Y.**
myoglobin; zinc; copper; binding; oxytocin; vasopressin; dehydratases..carbonic anhydrase

HE-02966 **PUTNAM, FRANK W., Col. Med., Univ. Florida, Gainesville, Fla.**
albumins..plasma albumins; enzymes; genetics; globulins.. serum globulins; hemoglobin; molecular structure; species; transferrin

HE-02975 **LAMY, FRANCOIS, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
proteases..elastase; pancreas; cell components; proteases..chymotrypsinogen; proteases..proelastase; chemical structure; amino acids; elastin

HE-03037 **WILCOX, PHILIP E., Sch. Med., Univ. Washington, Seattle, Wash.**
synthesis; proteins; molecular structure; stoichiometry; enzymes; x-ray diffraction; proteases..chymotrypsinogen; proteases..chymotrypsin; crystallography

HE-03067 **MOMMAERTS, WILFRIED F.H.M., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.**
actin; myosin; actomyosin; adenosine triphosphate; phosphocreatin; molecular structure; muscle contraction; heart contraction; heart failure

HE-03141 **CARLSON, FRANCIS D., Sch. Arts, Sci., Johns Hopkins Univ., Baltimore, Md.**
myosin; actin; molecules; amino acid; collagen; electron microscopy

HE-03149 **HILL, TERRELL L., Grad. Sch., Univ. Oregon, Eugene, Ore.**
thermodynamics; statistics; molecules..macromolecules; polymers

HE-03169 **EDSALL, JOHN T., Grad. Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.**
chemical structure; proteins; messenger ribonucleic acid; cell components..ribosomes; amino acids; nucleotides; bacteria..Escherichia coli; dehydratases..carbonic anhydrase; blood cells..erythrocytes; albumins..serum albumins; phosphodiesterases; proteins denaturation

HE-03394 **VINOGRAD, JEROME R., California Inst. Tech., Pasadena, Cal.**
density gradient ultracentrifugation; molecules..macromolecules; hydrogen--ion concentration; solvents; nucleic acids; radioautography; hemoglobin; instrumentation--methodology; ultracentrifugation; blood cells.. erythrocytes

HE-03559 **HOLMAN, RALPH T., Hormel Inst., Austin, Minn.**
instrumentation; gas chromatography; lipids; fatty acids

HE-03850 **BERNFELD, PETER, Bio-Res. Inst., Cambridge, Mass.**
lipoproteins..serum lipoproteins; molecules..macromolecules; arteriosclerosis; unsaturated fatty acids; lipases.. lipoprotein lipase; polysaccharides sulfates; proteases; proteases..trypsin; proteases..chymotrysin; polyions; polyanions; fractionation

HE-04994 **HANANIA, GEORGE I.H., Sch. Art, Sci., American Univ., Beirut, Lebanon**
hemoglobin; ionization; binding; iron; thermodynamics; myoglobin

HE-05074 **ROSE, ARTHUR, Col. Eng., Pennsylvania State Univ., University Park, Pa.**
biological compounds preparation; instrumentation--methodology; gas chromatography; biomathematics; lipids; steroids; alcohols

HE-05300 **BLOCH, EDWARD H., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
capillaries; cytology; endothelium permeability

HE-05556 **GURD, FRANK R.N., Sch. Med., Indiana Univ., Indianapolis, Ind.**
acid-base equilibrium; amidination; carboxymethylation; guanidine; lipoproteins; metal complexes; molecular structure; myoglobin; nitrophenyl acetate; proteins; proteins denaturation; temperature

(contd)

BIOPHYSICS AND BIOPHYSICAL CHEMISTRY (CONTD)

HE-05557 **BUGLIARELLO, GEORGE,** Carnegie Inst. Tech., Pittsburgh, Pa.
blood circulation dynamics; blood flow; blood pressure; instrumentation; viscosimetry; heart rate; blood cells.. erythrocytes; biological models

HE-05911 **MASON, S.G.,** Grad. Sch., McGill Univ., Montreal, Canada
polymerization; blood cells..erythrocytes; electrical fields; blood flow

HE-05943 **STIVALA, SALVATORE S.,** Stevens Inst. Tech., Hoboken, N.J.
heparin: chemical structure--biological activity; molecular structure; optical rotatory dispersion; ultracentrifugation; light scattering; viscosity; osmotic pressure

HE-05949 **GERGELY, JOHN,** Retina Fdn., Boston, Mass.
muscle contraction; actin; myosin; calcium; radiolabeled; polymerization; nucleotides; binding; M--B factor; heart; muscle..myofibrils; tropomyosin; nuclear magnetic resonance; body water; ionic bonds; phosphatases.. adenosine triphosphatase; cell components..microsomes; muscular dystrophy; magnesium; manganese; muscle.. sarcoplasmic reticulum; membrane permeability and transport; phospholipids

HE-06041 **NODA, HARUHIKO,** Univ. Tokyo, Tokyo, Japan
actomyosin; adenosine triphosphate; chemical structure; phosphatases..adenosine triphosphatase

HE-06632 **CRAWFORD, HARRY D.,** Sch. Elec. Eng., Oklahoma State Univ., Stillwater, Okla.
instrumentation: ultrasonics: thorax

HE-06787 **BENESCH, REINHOLD,** Col. Phys., Surg., Columbia Univ., New York, N.Y.
age; hemoglobin; blood cells..erythrocytes; oxygen tension; heme; Bohr effect

HE-07062 **ELMORE, DONALD T.,** Queen's Univ., Belfast, N. Ireland
blood coagulation..thrombin; proteases..trypsin; proteases..chymotrypsin; bile acids and salts; blood coagulation..fibrinogen; blood coagulation.. fibrin; enzyme substrate; proteins; hydrolysis; blood coagulation

HE-07383 **URS, GESSNER,** Sch. Med., Johns Hopkins Univ., Baltimore, Md.
blood circulation dynamics; pulse pressure waves; blood flow impedance; mathematical models; blood vessels models; animal

HE-07443 **STREETER, VICTOR L.,** Sch. Eng., Univ. Michigan, Ann Arbor, Mich.
blood flow impedance; blood vessels models; cardiovascular system; computer programming; pulse pressure waves

HE-07684 **KAPANY, NARINDER S.,** Palo Alto Res. Fdn., Palo Alto, Cal.
instrumentation; endoscopy; optics; heart diseases; respiratory diseases; fiberscope, cardiac; fiberscope, gastrointestinal; oximetry; photocoagulation; ophthalmology; bronchoscopy; cystoscopy

HE-07696 **ONCLEY, J.L.,** Inst. Sci., Tech., Univ. Michigan, Ann Arbor, Mich.
albumins..serum albumins; beta globulins; binding; chemical bonds; insulin; lipoproteins..plasma lipoproteins; reaction sites; ultracentrifugation; x-ray diffraction

HE-07716 **REYERSON, LLOYD H.,** New England Inst. Med. Res., Ridgefield, Conn.
thermodynamics; binding; proteins; hydration reactions; deuterium oxide; viruses..tobacco mosaic virus

HE-07902 **WAYLAND, J. HAROLD,** California Inst. Technology, Pasadena, Cal.
blood cells..erythrocytes; body fluids; liquid flow; molecules..macromolecules; solutions..multicomponent solutions; suspensions. chemistry

HE-08330 **CLARK, MARLYN E.,** Col. Eng., U. Illinois, Urbana, Ill.
arteries..circle of Willis; biological models; blood flow; blood pressure; blood vessels; cerebrovascular system

HE-08345 **RESSLER, NEWTON,** Wayne County Gen. Hosp., Eloise, Mich.
enzymes..isoenzymes; oxidoreductases..lactate dehydrogenase; molecular rearrangement; chemical structure--biological activity

HE-08414 **THOMPSON, NOEL P.,** Palo Alto Med. Res. Fdn., Palo Alto, Cal.
cardiotomy; electronic heart stimulators; heart block..atrioventricular block; heart..myocardium; heart rate; heart..ventricles; implants; instrumentation; transplantation..autotransplantation

HE-08612 **NORDMAN, CHRISTER E.,** Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
Alstonia alkaloids; computer analysis; crystalloids; instrumentation-methodology; molecular structure; organic compounds; x-ray diffraction

HE-08867 **HILL, ROBERT J.,** Sch. Basic Med. Sci., Univ. Tennessee, Memphis, Tenn.
hemoglobin: conformations (chemistry); functional groups; fluorodinitrobenzene

HE-08897 **BRASWELL, EMORY H.,** Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.
heparin: chemical structure--biological activity; molecules..macromolecules; conformations (chemistry); dyes; binding

HE-09068 **SAX, MARTIN,** Univ. Pittsburgh, Pittsburgh, Pa.
molecular structure; phospholipids; nucleotides; metal complexes; molecules..macromolecules; cell components..cell membrane; x-ray structure analysis

HE-09250 **SPARKS, ROBERT E.,** Case Inst. Technology, Cleveland, Ohio
instrumentation: kidney..artificial kidney; carbon; adsorption; metabolites; molecular structure; membrane; blood coagulation; blood flow; surface properties

HE-09291 **CHANUTIN, ALFRED,** Sch. Med., Univ. Virginia, Charlottesville, Va.
hemoglobin: organophosphorus compounds; binding; proteases..carboxypeptidase; phosphorylation; Bohr effect; equilibrium dialysis; blood cells..erythrocytes

HE-09415 **KRIEGER, IRVIN M.,** Case Inst. Technology, Cleveland, Ohio
liquid flow; suspensions (chemistry); solutions.. solid solutions; viscoelasticity; particle size

HE-10034 **LIEBERSTEIN, H. MELVIN,** Col. Arts, Sci., Indiana Univ., Bloomington, Ind.
arteriosclerosis; capillary beds; blood flow; mathematical models; biomathematics; homeostasis

HE-10063 **COULTER, NORMAN A., Jr.,** Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
blood flow..oscillatory blood flow; blood flow impedance; blood vessels; elasticity; computer; capillary beds; kidney circulation; blood vessels stenosis; pulse pressure waves

HE-10064 **COULTER, NORMAN A., Jr.,** Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
instrumentation--methodology; computer; biomathematics; mathematical models; blood flow; heart function; neuromuscular transmission; computer analysis

NB-00024 **SCHMITT, FRANCIS O.,** Massachusetts Inst. Tech., Cambridge, Mass.
nerves..axons; nerves..neurofibrils; proteins; tropocollagen; peptides; chemical structure--biological activity; immunology..antibodies; enzymes; nerve impulse transmission; electron transport; molecules.. macromolecules; collagen diseases; deoxyribonucleic acid

NB-00285 **SAIFER, ABRAHAM,** Isaac Albert Res. Inst., Brooklyn, N.Y.
chronic disease; nervous system disorders; blood proteins..serum proteins; cerebrospinal fluid; proteins; ultracentrifugation; chromatography; electrophoresis; spectrophotometry; diagnostic tests

NB-02067 **SCHULMAN, JACK H.,** Grad. Sch., Columbia Univ., N.Y.C.
nerve impulse transmission; lipids; proteins; colloids; lipoproteins; potentials..membrane potentials; diffusion; ion exchange and transport; surface properties; cell components..cell membrane; nerves..neurons; emulsions; coacervation; membrane models

NB-02340 **ABRAHAMSON, EDWIN W.,** Case Inst. Tech., Cleveland, Ohio
eye..retina; instrumentation; molecular rearrangement; photochemistry; retinene; rhodopsin

NB-02580 **COULTER, NORMAN A., Jr.,** Col. Med., Ohio State Univ. Fdn., Columbus, Ohio
muscle stretch reflex; muscle; mathematical models; servo-mechanism; computer

NB-02704 **SPERRY, C.J., Jr.,** Sch. Eng., Tulane Univ., New Orleans, La.
telemetering; potentials; brain..cerebral cortex; brain..subcortical structures; electrostimulus; instrumentation

NB-02763 **CRAVEN, BRYAN M.,** Univ. Pittsburgh, Pittsburgh, Pa.
barbiturates; hydration reactions; hydrogen bond; pyrimidine; tautomerism; x-ray structure analysis

NB-02927 **MAY, LEOPOLD,** Grad. Sch. Arts, Sci., Catholic Univ., Washington, D.C.
lipoproteins; brain; chemical structure; infrared spectrometry

NB-03090 **STARK, LAWRENCE,** Mass. Inst. Tech, Cambridge, Mass.
limbs movement; eye movement; reflex; nervous system.. central nervous system; computer analysis; electrophysiology; electronic recording

NB-03419 **LONG, CHARLES,** Sch. Med., Western Reserve Univ., Cleveland, Ohio
electromyography; fiber optics microscopy; instrumentation; muscle; nervous system; polarization optics

NB-03625 **FEATHERSTONE, ROBERT M.,** Sch. Med., Univ. California, San Francisco, Cal.
gases..inert gases; anesthetics; solubility; proteins; molecular structure

NB-03712 **TEORELL, TORSTEN,** Univ. Uppsala, Uppsala, Sweden
cell water; cell components..cell membrane; membrane permeability; ion exchange; electrophysiology; computer; single cell analysis; hydrodynamics

NB-04145 **ROSENBERG, BARNETT,** Col. Sci., Arts, Michigan State Univ., East Lansing, Mich.
amine; carotenoids; electrophysiology; eye.. retinal rods; molecular structure; photoconduction; retinene; semiconduction; stereoisomers

NB-04267 **FERNANDEZ-MORAN, HUMBERTO,** Univ. Chicago, Chicago, Ill.
cell components..mitochondria membrane; molecular structure; nerves..myelin; photoreceptors; nucleic acids; solutions; viruses; instrumentation-methodology; cryostat; electron microscopy; electron diffraction; cell components..cell membrane

NB-04352 **RANCK, JAMES B., Jr.,** Sch. Med., Univ. Michigan, Ann Arbor, Mich.
brain; cell components..cell membrane; electrical impedance; nerves..neuroglia; nerves..neurons

NB-04478 SHEER, CHARLES, Sch. Eng., Applied Sci., Columbia Univ., N.Y.C.
nerve impulse transmission; potentials..action potentials; nerves..axons; electrical conductance; instrumentation-methodology

NB-05306 ZAND, ROBERT, Inst. Sci., Tech., Univ. Michigan, Ann Arbor, Mich.
brain; lipoproteins..plasma lipoproteins; molecular structure; molecular weight; binding; solubility..water soluble; dielectric dispersion; polypeptides..unnatural polypeptides; proteolipids

NB-05585 MULLINS, LORIN J., Sch. Med., Univ. Maryland, Baltimore, Md.
conferences..international meetings; nerves..axons; biophysics; geographical sites..Florida; travel

NB-05922 WOLKEN, JEROME J., Sch. Eng., Sci., Carnegie Inst. Technology, Pittsburgh, Pa.
photoreceptors; cell components..chloroplasts; eye.. retina; pigments; instrumentation

NB-06059 TAVERAS, JUAN M., Barnes Hosp., Washington Univ., St. Louis, Mo.
ultrasonic echoencephalography; diagnostic tests; brain disorders; brain mapping; instrumentation--methodology

RH-00008 ANDERSON, ROY S., Grad. Sch., Clark Univ., Worcester, Mass.
radiation effects; amino acids; chemical bonds..bond cleavage; electron spin resonance; radiation sensitivity; crystallography; organic compounds

RH-00197 LOHMANN, WOLFGANG H., Univ. Arkansas Med. Cr., Little Rock, Ark.
radiation effects: x-rays: neutrons: radiation protection drugs; enzymes; phosphotransferases..luciferase; catalase; free radicals; temperature; oxygen; nitrogen; helium; atmosphere

RH-00288 BOULDIN, WALTER V., Grad. Sch., Vanderbilt Univ., Nashville, Tenn.
instrumentation-methodology; electron spin resonance spectroscopy; radiation effects; molecules; x-rays; amino acid

RH-00302 WEISS, KARL, Grad. Sch., Northeastern Univ., Boston, Mass.
lasers; photochemistry; organic compounds; radiation effects; molecular energy levels; triplet state; molecular structure

RH-00392 FORBES, WILLIAM F., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
radiation effects; proteins; cystine; tryptophan; sulfur amino acids; peptides; colloids; free radicals; amino

WP-00366 KINTNER, ROBERT C., Grad. Sch., Illinois Inst. Technology, Chicago, Ill.
cinematography; coalescence; colloids; hydrodynamics; liquid state (chemistry); mathematical models; surface properties; water pollution; water treatment

WP-00658 KAUFMAN, WARREN J., Col. Eng., Univ. California, Berkeley, Cal.
water supply; water treatment; sanitary engineering; criteria; coalescence; instrumentation; mathematical models; particle size

CANCER PROGRAM-PROJECT COMMITTEE

CA-05815 ELIEL, LEONARD P., Oklahoma Med. Res. Inst., Oklahoma City, Okla.
folic acid; folic acid antagonists; cancer chemotherapy; 5--fluorouracil; breast neoplasms; bone; radiolabeled phosphorus; hyperparathyroidism; research programs; leukemia; enzymes; blood cells..leukocytes; progesterone; steroids; estrogens

CA-05831 CLARK, R. LEE, Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
research programs; cancer; endocrinology; breast neoplasms; surgery; adrenalectomy; hypophysectomy; ovariectomy; gonadectomy; thyroid gland; parathyroid glands; cancer chemotherapy; radiation therapy; perfusion

CA-05837 KREMENTZ, EDWARD T., Sch. Med., Tulane Univ., New Orleans, La.
research programs; cancer chemotherapy; leukemia..acute leukemia; leukemia..chronic leukemia; myeloma, bone marrow..multiple myeloma; lymphoma; endocrine glands neoplasms; breast neoplasms; head neoplasms; neck neoplasms; uterus neoplasms..cervix neoplasms; arterial infusions; perfusion; radiation therapy; carcinogens; tryptophan; metabolites

CA-06551 TALBOT, TIMOTHY R., Jr., Inst. Cancer Res., Philadelphia, Pa.
clinical research centers; cancer; neoplasms; genetics.. chromosomes; purine; pyrimidine; carbohydrates; folic acid; cancer chemotherapy; radiation therapy; host-virus; bacteria; viruses; metastasis; immunology; chemical structure--biological activity; antineoplastic agents

CA-06749 ANSFIELD, FRED J., Sch. Med., Univ. Wisconsin, Madison, Wis.
research programs; cancer chemotherapy; neoplasms; surgery; radiation therapy; toxicology; dosage; perfusion; arterial infusions; diet; amino acid; thymidine; cell division; antimitotic agents; neoplastic cells; aldolases; oxidoreductases..lactate dehydrogenase; breast neoplasms; hormones; urinary bladder neoplasms; tryptophan; carcinogenesis; metabolites; quinolines; natural products; smoking; drugs resistance; screening; antineoplastic agents; synthesis; longitudinal study; thyroid function; hypersensitivity..delayed hypersensitivity; pyrimidines; immunity..autoimmunity; androgens

CANCER TRAINING COMMITTEE

CA-06342 GARB, SOLOMON, Sch. Med., Univ. Missouri, Columbia, Mo.
antineoplastic agents; immune sera; immunology..antibodies; immunology..antigens; leukemia

CARDIOVASCULAR

AI-05218 MARKS, ASHER, Jackson Mem. Hosp., Miami, Fla.
pneumonia..virus pneumonia; pulmonary function; pulmonary diffusion; serology

AM-03495 ELKIN, MILTON, Col. Med., Yeshiva Univ., N.Y.C.
catheterization; cineradiography; dogs; drugs; human; ureter; urinary tract motility

AM-05008 deWARDENER, HUGH E., Charing Cross Hosp. Med. Sch., London, England
sodium; saline solutions; kidney function; calcium; renal failure; diet

AM-05009 BECKER, E. LOVELL, Sch. Med., Cornell Univ., N.Y.C.
nephrotic syndrome; glomerulonephritis; therapy; proteins; basement membrane; kidney; adults; gastrointestinal system; salivary glands; radiolabeled iodine

AM-06748 MATTHEWS, LEROY W., Sch. Med., Western Reserve Univ., Cleveland, Ohio
aerosols; asthma; bronchiectasis; bronchodilators; carbon dioxide; children; lung volume; pancreatic cystic fibrosis; physical therapy; pulmonary airway resistance; pulmonary function; pulmonary ventilation; steroids; therapy evaluation

AM-07190 KLEEMAN, CHARLES, R., Mount Sinai Hosp., Los Angeles, Cal.
aldosterone; homeostasis; kidney function; radiolabeled carbon; renal failure; renal hypertension; tritium

AM-07336 NORMAN, JOE R., Univ. Alabama Med. Cr., Birmingham, Ala.
longitudinal study; lung volume; medical records; pulmonary circulation; pulmonary function; pulmonary ventilation; spondylitis..rheumatoid spondylitis; therapy evaluation

AM-07470 PECORA, LOUIS J., Veterans Admin. Hosp., Cincinnati, Ohio
lung diseases; pulmonary emphysema; carbohydrates metabolism disorders; hyaluronic acid; carbohydrases.. hyaluronidase

AM-07482 GLIEDMAN, MARVIN L., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
biliary tract restoration; bile ducts obstruction; liver cirrhosis; ascites; liver function tests; electrolytes; blood pressure; liver circulation; aldosterone; antimetabolites; chemotherapy; blood vessel shunts.. portacaval shunt

AM-08196 HOLMES, JOSEPH H., Univ. Colorado Med. Cr., Denver, Colo.
blood flow; chemoreceptors; drinking behavior; edema, generalized; hypernatremia; hyponatremia; longitudinal study; psychophysiology; salivary glands; therapy; thirst; water-electrolyte balance

AP-00208 PERMUTT, SOLBERT, Sch. Hygiene, Pub. Hlth., Johns Hopkins U., Baltimore, Md.
asthma; pulmonary heart disease; pulmonary airway resistance; blood flow; pulmonary circulation; pulmonary ventilation; heart function

AP-00264 ROKAW, STANLEY N., Rancho Los Amigos Hosp., Downey, Cal.
air pollution; respiration; respiratory diseases; exercise; temperature; climate..humidity; nitrogen dioxide; plethysmography; pneumotachography; hematology

AP-00402 CONSTANTINE, HERBERT, Massachusetts Mem. Hosp., Boston, Mass.
air pollution; pulmonary function; pulmonary ventilation; asthma; bronchitis; aerosols; particle size

CD-00031 DACSO, MICHAEL M., Goldwater Mem. Hosp., Welfare Island, N.Y.
aging; amputation; cardiovascular diseases; hemiplegia; longitudinal study; Parkinson's disease; physical fitness; psychology; rehabilitation

CD-00054 CASTEN, GUS G., Med. Col. Alabama, Birmingham, Ala.
research programs; myocardial infarct; acidosis; shock; morbidity; therapy; therapy evaluation; blood circulation dynamics; pulsatile perfusion pump

CD-00110 WARREN, JAMES V., Ohio State Univ. Hosp., Columbus, Ohio
myocardial infarct; mortality; arrhythmia, cardiac; heart failure; shock; monitoring; resuscitation; therapy; patient care

DE-00546 SAGE, HAROLD H., Col. Dent., New York Univ. Med. Cr., N.Y.C.
lymph flow; lymph nodes; leg; head; neck; jaws.. mandible; salivary glands; transplantation; radiation effects; radiolabeled gold; edema (generalized)

CARDIOVASCULAR (CONTD)

DE-01992 COOLIDGE, THOMAS B., Grad. Sch., Univ. Chicago, Chicago, Ill.
blood circulation dynamics; face; neck; mouth; mucous membrane; age; skin; nervous system..trigeminal nerve

EF-00036 ASHE, WILLIAM F., Sch. Med., Ohio State Univ., Columbus, Ohio
space medicine; atmospheric pressure; instrumentation--methodology; metabolic diseases; pulmonary heart disease; public health

GM-12071 BATTINO, RUBIN, Illinois Inst. Technology, Chicago, Ill.
gases; solubility; nitrogen; nitrogen oxides; oxygen; carbon monoxide; carbon dioxide; argon; neon; solutions..aqueous solutions; solvents; ethers..ethyl ether; ethanol; butanol; cholesterol; thermodynamics; oils

HD-00117 WINTERS, ROBERT W., Col. Phys., Surg., Columbia Univ., N.Y.C.
metabolic diseases; acid-base equilibrium; children; infants (human)..premature infants; acidosis; alkalosis; pulmonary ventilation; kidney..renal tubules; diagnostic tests; hyaline membrane disease (pulmonary); temperature; artificial respiration

HD-00236 POLGAR, GEORGE, Grad. Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
infant human..newborn; pulmonary airway resistance; lung volume; pulmonary function; lung..alveolus; pulmonary ventilation; oxygen tension; carbon dioxide tension; acid-base equilibrium; blood; gases; oxyhemoglobin; histamine

HD-00250 LAUER, RONALD M., Univ. Kansas, Kansas City, Kans.
pulmonary circulation; blood vessels resistance; lung; perfusion; infant animals..newborn; infant human..newborn

HD-00251 ADAMS, FORREST H., Sch. Med., Univ. California, Los Angeles, Cal.
temperature; hyaline membrane disease; pulmonary; cyanosis; heart failure; oxygen consumption; carbon dioxide; infant human

HD-00281 AVERY, MARY E., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
lung..alveolus; lung volume; resuscitation; infant human..newborn; surface properties; hyaline membrane disease, pulmonary; carbon dioxide; respiration; fetus; embryology; respiratory system reflexes..respiratory periodicity

HD-00612 GILBERT, ROBERT, Upstate Med. Cr., University Hosp., Syracuse, N.Y.
pregnancy; dyspnea; respiration; oxygen consumption; carbon dioxide; heart rate; exercise; brain..respiratory center

HD-00794 BIENIARZ, JOSEF, Fac. Med., Univ. de la Republica, Montevideo, Uruguay
arteries..femoral artery; arteries..brachial artery; blood pressure; pregnancy; body position; blood circulation dynamics; fetus; heart rate; uterus..myometrium contracton; biometry; hypotension

HD-00989 COOK, CHARLES D., Sch. Med., Yale Univ., New Haven, Conn.
respiratory diseases; infant human; children; pulmonary function; plethysmography; asthma; congenital heart disease; heart--lung bypass; maternal--fetal; blood flow; carbon dioxide; narcotics; surface active agents; anesthetics; bronchiolitis; hyaline membrane disease, pulmonary

HD-01004 HELLERSTEIN, STANLEY, Children's Mercy Hosp., Kansas City, Mo.
dehydration (body fluids); acidosis; diarrhea; hydration (body fluids); electrolytes; therapy evaluation; osmotic pressure; body fluids; children

HD-01392 MEAD, JERE, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
respiration; infant human; bronchiolitis obliterans; respiratory system reflexes; lung volume; instrumentation--methodology; pulmonary airway resistance

HD-01412 DOWNES, JOHN J., Children's Hosp., Philadelphia, Pa.
asthma; bronchitis; pneumonia; bronchiolitis obliterans; gas tensions; acid--base equilibrium; infant human; pulmonary ventilation; pulmonary function; therapy evaluation

HE-00035 LEITER, LOUIS, Montefiore Hosp., New York, N.Y.
diuresis; heart diseases; blood circulation dynamics; water--electrolyte balance; renal hypertension; radiolabeled potassium; acidosis; phosphates; ammonia

HE-00054 DRURY, DOUGLAS R., Sch. Med., Univ. Southern California, Los Angeles, Cal.
aorta coarctation; heart failure..congestive heart failure; heart function; hypertension (systemic); peripheral vascular resistance

HE-00109 CHAIKOFF, ISRAEL L., Univ. California, Berkeley, Cal.
arteriosclerosis; arteries; aging; radiolabeled carbon; acetates; cholesterol; fatty acids; radiolabeled phosphorus; phospholipids; lipids; proteins; carbohydrates; diet

HE-00315 PULLMAN, THEODORE N., Univ. Chicago, Chicago, Ill.
diuretics; electrolytes; hormones; kidney circulation; kidney function

HE-00340 ELKINTON, J. RUSSELL, Sch. Med., Univ. Pennsylvania Hosp., Philadelphia, Pa.
acid-base equilibrium; adrenal glands; aldosterone; blood..serum; body fluids; calcium; cardiorenal disorders; citrate; hyperkalemia; hypertension (systemic); instrumentation; kidney function; membrane permeability; natriuresis; potassium; proteins; renal failure; sodium; uremia; vasopressin

HE-00398 SAYEN, JOHN J., Hosp. of Univ. Pennsylvania, Philadelphia, Pa.
myocardial infarct; myocardial ischemia and hypoxia; heart function; heart contraction; heart surgery; coronary diseases; blood collateral circulation

HE-00405 BARKER, EARL S., Hosp. Univ. Pennsylvania, Philadelphia, Pa.
acid-base equilibrium; adrenalectomy; electrolytes; kidney..renal tubules; kidney function; longitudinal study; magnesium; oxygen

HE-00442 ELLIS, LAURENCE B., Boston City Hosp., Boston, Mass.
valvular heart diseases..mitral stenosis; valvular heart diseases..aortic valve stenosis; angina pectoris; heart surgery; blood circulation dynamics; longitudinal study; valvular heart diseases..aortic insufficiency; valvular heart diseases..mitral insufficiency

HE-00450 DEXTER, LEWIS, Peter Bent Brigham Hosp., Boston, Mass.
pulmonary circulation; pulmonary arterial occlusions; pulmonary hypertension; blood vessels resistance; lung; valvular heart diseases..mitral insufficiency; thermal dilution technique; congenital heart disease; heart sounds

HE-00454 ETTELDORF, JAMES N., Univ. Tennessee, Memphis, Tenn.
renal hypertension; nephritis; kidney disorders; therapy; infant human; children; homeostasis; kidney; hemostasis; hemodialysis

HE-00487 GREEN, HAROLD D., Wake Forest Col., Bowman Gray Sch. Med., Winston-Salem, N.C.
blood circulation dynamics; blood vessels; blood vessels vasomotion; blood volume; capillary beds; heart function; vascular disorders; vasoactive agents, vasodilators; veins

HE-00513 SCHMITT, OTTO H., Univ. Minnesota, Minneapolis, Minn.
mathematical models; electrophysiology; computer; instrumentation; vectorcardiography; electrocardiography; magnetic recording system; medical records

HE-00519 SMITH, JOHN R., Sch. Med., Washington Univ., St. Louis, Mo.
cytology; digoxin; glycosides; heart; heart..myocardium; heart contraction; heart conduction system..heart pacemakers; lung; pulmonary hypertension; tritium; valvular heart diseases

HE-00625 STARR, ISAAC, Univ. Pennsylvania Hosp., Philadelphia, Pa.
heart rate; ballistocardiography; publications..monograph; smoking; nitroglycerin; blood circulation dynamics; heart function

HE-00759 SCHWARTZ, WILLIAM B., New England Cr. Hosp., Boston, Mass.
acid-base equilibrium; acidosis; ammonia; electrolytes; kidney function

HE-00814 PITTS, ROBERT F., Cornell Univ. Med. Col., New York, N.Y.
kidney function; body fluids; electrolytes; sodium; amino acids; acid--base equilibrium; ammonia; electron transport; glucose; p--aminohippurate; adenosine phosphates; kidney..renal tubules

HE-00908 BRUCE, ROBERT A., Sch. Med., Univ. Washington, Seattle, Wash.
exercise; heart diseases; blood circulation dynamics; heart function; lipids; carbohydrates

HE-00934 RUTSTEIN, DAVID D., Harvard Univ. Med. Sch., Boston, Mass.
therapy evaluation; ACTH; cortisone; acetylsalicylic acid; rheumatic fever; rheumatic heart disease; preventive medicine

HE-01006 FREED, S. CHARLES, Mount Zion Hosp., Med. Cr., San Francisco, Cal.
adrenal cortex hormones; natriuresis; sodium; potassium; chlorides; arteries..aorta; blood pressure; water-electrolyte balance; proteins

HE-01015 HAWTHORNE, EDWARD W., Col. Med., Howard Univ., Washington, D.C.
heart..ventricles; heart function; heart intracardiac pressures; hypertension

HE-01109 HARRIS, A. SIDNEY, Sch. Med., Louisiana State Univ., New Orleans, La.
methacholine; myocardial ischemia and hypoxia; arrhythmia, cardiac..atrial fibrillation; blood flow; blood collateral circulation; catecholamines; myocardial infarct; tachycardia; blood pressure; amino acids

HE-01151 KRAMAR, JENO, Sch. Med., Creighton Univ., Omaha, Nebr.
capillaries; blood vessels resistance; thrombocytopenia; immunology; endocrine glands; hemorrhagic disease; vasopressin

HE-01152 FRIEDBERG, CHARLES K., Mt. Sinai Hosp., N.Y.C.
blood circulation dynamics; body fluids; electrolytes; heart failure..congestive heart failure; kidney circulation

HE-01208 BLOUNT, S. GILBERT, Jr., Sch. Med., Univ. Colorado, Denver, Colo.
arteries..pulmonary artery; blood; blood pressure; pulmonary circulation; pulmonary hypertension; veins..pulmonary vein; viscosity

HE-01267 **PRINZMETAL, MYRON, Cedars Lebanon Hosp., Los Angeles, Cal.**
arteries..coronary arteries; electrophysiology; myocardial ischemia and hypoxia; perfusion; potassium; sodium

HE-01270 **FARBER, SAUL J., Sch. Med. New York Univ., N.Y.C.**
electrolytes; mucopolysaccharides; heart failure.. congestive heart failure; sodium; potassium; nutrition; mucoproteins; kidney disorders; body fluids

HE-01275 **LARAGH, JOHN H., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
electrolytes; aldosterone; angiotensin; norepinephrine; edema (generalized); hydrocortisone; corticosterone; kidney function; hypertension (systemic)

HE-01362 **BRODY, DANIEL A., Col. Med., Univ. Tennessee, Memphis, Tenn.**
computer analysis; electrocardiography; instrumentation; phonocardiography

HE-01485 **HUMPHRIES, J. O'NEAL, Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
cardiovascular system; instrumentation-methodology; phonocardiography

HE-01486 **LEPESCHKIN, EUGENE, DeGoesbriand Mem. Hosp., Burlington, Vt.**
temperature; potassium; sodium; calcium; heart.. myocardium; potentials..action potentials; posture; heart rate; epinephrine; exercise; hyperpnea; children; myocardial ischemia and hypoxia

HE-01499 **BAYLEY, ROBERT H., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.**
instrumentation; electrocardiography

HE-01520 **THREEFOOT, SAM A., Touro Res. Inst., New Orleans, La.**
edema (generalized); electrolytes; heart failure.. congestive heart failure; lymph flow; lymphatic system; vasoactive agents

HE-01536 **HOLLANDER, WILLIAM, Sch. Med., Boston Univ., Boston, Mass.**
antihypertensive agents; cholesterol inhibitors; hypertension (systemic) atherosclerosis; therapy; endothelium

HE-01574 **VANATTA, JOHN C., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.**
hypertension (systemic); muscle..skeletal muscle; heart; arteries..aorta; sodium; chemical structure; phospholipids; kidney; urinary bladder

HE-01718 **REYNOLDS, TELFER B., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
blood flow; blood pressure; blood vessels shunts.. portacaval shunt; liver cirrhosis; liver function; portal hypertension; radioisotopes

HE-01909 **PETERSON, RICHARD E., Veterans Admin. Hosp., Iowa City, Iowa**
body composition; isotope dilution (concentration) techniques; radiation counters

HE-01942 **BRAND, EUGENE D., Sch. Med., Univ. Virginia, Charlottesville, Va.**
digitalis; hemorrhagic shock; hypotension; norepinephrine; phenoxybenzamine; therapy; trimethaphan camphorsulfonate; venous infusions

HE-01978 **LaDUE, JOHN S., Sloan-Kettering Inst. for Cancer Res., New York, N.Y.**
myocardial infarct; coronary thrombosis; hyperlipemia; heparin; blood coagulation..fibrinolysis; veins.. coronary vein

HE-02001 **FRITTS, HARRY W., Jr., Bellevue Hosp., New York, N.Y.**
pulmonary circulation; pulmonary diffusion; pulmonary heart disease; heart function; pulmonary ventilation; pulmonary emphysema; liver cirrhosis; oxygen; arteries; lung disease; heart..ventricles; radioisotopes..xenon 133; heart intracardiac volume; cardioactive agents; blood circulation dynamics; radiocardiography; radioisotopes.. krypton 85; lung volume

HE-02008 **TOBIAN, LOUIS, Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
hypertension (systemic); kidney..juxtaglomerular apparatus; renal hypertension; body water; arteries.. arterioles; sodium; proteases..renin; proteinuria; calcium

HE-02054 **SCHERR, LAWRENCE, Bellevue Hosp., N.Y.C.**
adrenal cortex hormones; aldosterone; angiotensin; bacteria..Diplococcus pneumoniae; body fluids; edema (generalized); electrolytes; heart failure..congestive heart failure; radiolabeled

HE-02071 **SIMONSON, ERNST, Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.**
computer; electrodes; magnetic recording system; carbon dioxide; respiration; sex difference; vectorcardiography; instrumentation-methodology

HE-02075 **HOLT, JOSEPH P., Sch. Med., Univ. Louisville, Louisville, Ky.**
blood volume; heart..ventricles; drugs; hormones; nerves; hypervolemia; hemorrhage; heart rhythm; electrophysiology; blood circulation dynamics; instrumentation-methodology

HE-02115 **HOLMES, JOSEPH H., Univ. Colorado Med. Ctr., Denver, Colo.**
ultrasonics; cardiovascular diseases; diagnostic tests; instrumentation; heart function; heart valves; edema; ultrasonic echoencephalography; brain neoplasms; cerebrovascular disorders; ultrasonic echocardiography; urinary bladder; pregnancy..placenta; fetus; heart.. pericardium; kidney; polycystic kidney disease; kidney transplantation; liver

HE-02169 **RAAB, WILHELM, Col. Med., Univ. Vermont, Burlington, Vt.**
nervous system..sympathetic nervous system; epinephrine; norepinephrine; myocardial ischemia and hypoxia; preventive medicine; exercise; emotional reactions; public health; heart diseases; stress

HE-02233 **McCAWLEY, ELTON L., Univ. Oregon Med. Sch., Portland, Oregon**
chemotherapy; arrhythmia, cardiac.. alkaloids; quinidine; electrocardiography; toxicology; potassium

HE-02253 **KARK, ROBERT M., Col. Med., Univ. Illinois, Chicago, Ill.**
endothelium permeability; kidney disorders; edema (generalized); diuresis; bloody techniques

HE-02267 **ZWEIFACH, BENJAMIN W., New York Univ. Med. Ctr., N.Y.C.**
amine; blood circulation dynamics; blood proteins; blood vessels; blood vessels vasomotion; decarboxylases.. histidine decarboxylase; endothelium permeability; hemorrhage; injury; muscle..smooth muscle; neurohormones; skin; tissue

HE-02379 **LEWIS, BENJAMIN M., Sch. Med., Wayne State Univ., Detroit, Mich.**
capillary beds; computer; exercise; lung volume; mathematical models; pulmonary circulation; pulmonary cysts; pulmonary diffusion; pulmonary emphysema; respiration

HE-02493 **BARGER, A. CLIFFORD, Sch. Med., Harvard Univ., Boston, Mass.**
kidney function; heart failure..congestive heart failure; pressoreceptors; acetylcholine; sodium; nervous system.. sympathetic nerves; radiolabeled krypton; kidney circulation; hemorrhagic shock

HE-02494 **CROWELL, JACK W., Sch. Med., Univ. Mississippi, Jackson, Miss.**
blood flow; heart function; hemorrhagic shock; hypoxia; instrumentation; kidney circulation; oxygen consumption; pulmonary circulation

HE-02515 **NADAS, ALEXANDER S., Children's Hosp. Med. Ctr., Boston, Mass.**
vectorcardiography; congenital heart disease; blood circulation dynamics; valvular heart diseases..heart murmurs

HE-02578 **HOOBLER, SIBLEY W., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
diagnostic tests; renal arterial occlusions and stenosis; renal hypertension; renal ischemia and hypoxia; vascular disorders

HE-02602 **BERGERON, LIONEL M., Jr., Univ. Alabama Med. Ctr., Birmingham, Ala.**
congenital heart disease; infant human; diagnostic tests; instrumentation; heart catheterization; electrodes

HE-02614 **HOLTER, NORMAN J., Holter Res. Fdn., Helena, Mont.**
arrhythmia; computer diagnosis; electrocardiocorder; heart rate; instrumentation-methodology; radioelectrocardiography

HE-02621 **CASE, ROBERT B., St. Luke's Hosp., New York, N.Y.**
myocardial ischemia and hypoxia; blood circulation dynamics

HE-02644 **ECKSTEIN, JOHN W., Sch. Med., State University Iowa, Iowa City, Iowa**
arteriovenous fistula, blood circulation dynamics; blood vessels vasomotion; heart function; hemorrhage; hypervolemia; hypoxia; smoking; veins

HE-02658 **ROBINSON, ROGER W., Memorial Hosp., Worcester, Mass.**
atherosclerosis; coronary diseases; estrogens; hysterectomy; lipids..serum lipids

HE-02709 **KOUWENHOVEN, WILLIAM B., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
arrythmia, cardiac..ventricular fibrillation; blood pressure; cardioactive agents..cardiotonic drugs; coronary occlusions and thrombosis; electrical defibrillation; electricity; electroshock; heart; heart arrest; heart conduction system.. heart pacemakers; heart function; heart massage; therapy; vasoactive agents..vasopressors

HE-02846 **SEVY, ROGER W., Sch. Med., Temple Univ., Philadelphia, Pa.**
hypertension (systemic); stress; environment; natriuresis; electrolytes; longitudinal study

HE-02888 **TENNEY, STEPHEN M., Sch. Med., Dartmouth Col., Hanover, N.H.**
blood circulation dynamics; respiration; hemoglobin; acid--base equilibrium; potassium; anemia; polycythemia; altitude; cerebrovascular system

HE-02923 **WEBB, GEORGE N., Johns Hopkins Hosp., Baltimore, Md.**
electrocardiography; heart catheterization; electrophysiology; instrumentation-methodology

HE-02961 **JUDSON, WALTER E., Indiana Univ. Fdn., Indianapolis, Ind.**
blood flow; heart function; kidney function; proteases.. renin; renal hypertension; vasoactive agents..vasopressors

HE-02987 **LILIENFIELD, LAWRENCE S., Sch. Med., Georgetown Univ, Washington, D.C.**
blood circulation dynamics; kidney, renal tubular transport; kidney function; blood cells.. erythrocytes; plasma albumins; kidney disorders; oxygen consumption; sodium; radioautography

HE-03006 **ALEXANDER, JAMES K., Col. Med., Baylor Univ., Houston, Tex.**
blood circulation dynamics; respiration; obesity; pulmonary circulation; pulmonary hypertension; kidney hypertension; kidney circulation; kidney..glomerular filtration

(cont'd)

CARDIOVASCULAR (CONTD)

HE-03114 LUCHSINGER, PETER C., Sch. Med., Georgetown Univ., Washington, D.C.
pulmonary circulation; arteries..pulmonary artery; heart catheterization; radiography; angiocardiography

HE-03170 RABINOWITZ, MURRAY, Sch. Med., Univ. Chicago, Chicago, Ill.
arteries..arterioles; arteries..pulmonary artery; centrifugation; chemical structure--biological activity; fingerprint method; ground substance; microsurgery and microdissection; polysaccharides; proteases; pulmonary hypertension

HE-03191 FILLEY, GILES F., Univ. Colorado Med. Cr., Denver, Colo.
pulmonary function; exercise; pulmonary heart disease; gas chromatography; carbon dioxide; pulmonary ventilation; carbon monoxide; diffusion; mathematical models

HE-03223 NACHLAS, MARVIN M., Sinai Hosp., Baltimore, Md.
cell death; myocardial infarct; myocardial ischemia and hypoxia; muscle

HE-03235 JAQUES, WILLIAM E., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
blood vessels shunts; veins..pulmonary veins; veins.. bronchial veins; nematodes..Dirofilaria immitis; blood collateral circulation; pulmonary edema; pressoreceptors

HE-03241 ABILDSKOV, J.A., University Hosp., Syracuse, N.Y.
computer; diagnostic tests; electrocardiography; heart diseases; instrumentation-methodology

HE-03272 CHASIS, HERBERT, New York Univ. Med. Cr., N.Y.C.
kidney disorders; kidney function; nephrectomy; renal hypertension; sodium; vasoactive agents.. vasopressors

HE-03275 DOTTER, CHARLES T., Sch. Med., Univ. Oregon, Portland, Ore.
atherosclerosis; blood circulation dynamics; coronary diseases; diagnostic tests; heart catheterization; therapy

HE-03289 DUPERTUIS, C. WESLEY, Sch. Med., Western Reserve Univ., Cleveland, Ohio
arteriosclerosis; body build; cardiovascular diseases; hypertension (systemic); personality; rheumatic heart diseases

HE-03290 HONIG, CARL R., Med. Sch., Univ. Rochester, Rochester, N.Y.
cardiovascular system; blood flow; phosphatases.. adenosine triphosphatase; heart; muscle..smooth muscle; calcium; M--B factor; oxygen tension

HE-03302 NYE, ROBERT E., Jr., Sch. Med., Dartmouth Col., Hanover, N.H.
blood vessels shunts; carbon monoxide; drugs; posture; pulmonary circulation; pulmonary diffusion; pulmonary function; pulmonary hypertension; pulmonary ventilation

HE-03303 WALKER, W. GORDON, Sch. Med., Johns Hopkins Hosp., Baltimore, Md.
heart failure..congestive heart failure; congenital heart disease; kidney function; hyponatremia; hyperkalemia; kidney..renal tubules; ion exchange and transport; sodium; potassium; adrenal glands; vasopressin; water--electrolyte balance

HE-03319 HARVEY, W. PROCTOR, Sch. Med., Georgetown Univ., Washington, D.C.
congenital heart disease; heart diseases; instrumentation-methodology; phonocardiography

HE-03361 PATTERSON, JOHN L., Jr., Med. Col. Virginia, Richmond, Va.
dyspnea; emotional reactions; fatigue

HE-03391 DODGE, HAROLD T., Veterans Admin. Hosp., Seattle, Wash.
heart disorders; heart catheterization; heart function; angiocardiography; heart intracardiac pressures; heart intracardiac volume; heart..atrium; heart..ventricles; heart weight; oxygen consumption

HE-03418 GROSSMAN, BURTON J., Univ. Chicago, Chicago, Ill.
exercise; longitudinal study; prednisone; rheumatic fever; therapy

HE-03429 FRIEDMAN, MEYER, Mt. Zion Hosp., Med. Cr., San Francisco, Cal.
nervous system..central nervous system; coronary diseases; blood coagulation; lipoproteins; cholesterol; behavior; brain..hypothalamus; atherosclerosis; catecholamines; smoking

HE-03436 FILLER, JUAN, Bellevue Hosp., N.Y.C.
aerosols; children; congenital heart disease; infants (human); pulmonary function; respiratory diseases; therapy

HE-03518 WEINBERG, MILTON, Jr., Cook County Children's Hosp., Chicago, Ill.
heart..ventricles; congenital heart disease..septal defect; blood circulation dynamics; heart catheterization; longitudinal study

HE-03532 WOOD, EARL H., Mayo Assn., Rochester, Minn.
instrumentation-methodology; cardiovascular diseases; densitometry; indicator dilution techniques (concentration); pulmonary arterial occlusions; blood volume; pulmonary circulation; gastrointestinal motility; angiocardiography; cineangiocardiography; cineradiography

HE-03670 MAXWELL, MORTON H., Sch. Med., Univ. California, Los Angeles, Cal.
renal hypertension; diagnostic tests; kidney function; renography; angiography; medical records; family; kidney revascularization

HE-03727 FOWLER, NOBLE O., Cincinnati Gen. Hosp., Cincinnati, Ohio
adrenal medulla; anemia; blood letting; blood pressure; blood volume; catecholamines; dextran; hypervolemia

HE-03751 LEE, KWANG S., Sch. Med., State Univ. New York, Brooklyn, N.Y.
heart..papillary muscle; muscle..skeletal muscle; muscle contraction; oxygen consumption; phosphates

HE-03756 BOHR, DAVID F., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
arteries..arterioles; muscle..smooth muscle; electrolytes; hypertension (systemic)

HE-03769 FRANKE, ERNST K., Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio
cardiovascular diseases; diagnostic tests; heart; high frequency electrocardiography

HE-03796 BRECHER, GERHARD A., Emory Univ., Atlanta, Ga.
blood circulation dynamics; heart-lung bypass; extracorporeal circulation; heart failure; sympathomimetic agents; heart function

HE-03801 LEHMAN, J. STAUFFER, Hahnemann Med. Col., Philadelphia, Pa.
angiography; arteries..pulmonary artery; blood; blood vessels vasomotion; contrast media; heart..myocardium revascularization; heart catheterization; kidney; myocardial infarct; pulmonary hypertension; valvular heart disease..valvular insufficiency

HE-03804 TYLER, JOHN M., Lemuel Shattuck Hosp., Boston, Mass.
carbon dioxide tension; pulmonary airway resistance; pulmonary emphysema; pulmonary function; pulmonary ventilation; respiration

HE-03830 ROBINSON, ROGER W., Memorial Hosp., Worcester, Mass.
blood circulation dynamics; cerebroarterial occlusions and thrombosis; diagnostic tests; estrogens; lipids..serum lipids; longevity; longitudinal study; survey; therapy

HE-03882 REID, JOHN M., Sch. Elec. Eng., Univ. Pennsylvania, Philadelphia, Pa.
ultrasonic echocardiography; heart motion; heart diseases; diagnostic tests; heart valves..mitral valve

HE-03966 YU, PAUL N., Univ. Rochester Med. Cr., Rochester, N.Y.
vasoactive agents; pulmonary circulation; heart function; blood volume; valvular heart diseases..valvular insufficiency; myocardial infarct; heart failure..congestive heart failure; congenital heart disease..septal defect; blood circulation dynamics; pulmonary arterial occlusions

HE-03998 GUNTHEROTH, WARREN G., Sch. Med., Univ. Washington, Seattle, Wash.
veins..vena cava superior; blood pressure; exercise; emotional reactions; hemorrhage; vasoactive agents; heart function

HE-04013 GRUPP, GUNTER, Sch. Med., Univ. Cincinnati, Cincinnati, Ohio
ion..cations; heart function; scintillation counters; heart rate; heart contraction; cardiac glycosides; radiolabeled

HE-04031 EBERT, RICHARD V., Sch. Med., Univ. Arkansas, Little Rock, Ark.
amino acid; connective tissue; elastin; lung; proline; pulmonary emphysema; pulmonary function; radiolabeled carbon; surface properties

HE-04044 GARCIA-PALMIERI, MARIO R., Sch. Med., Univ. Puerto Rico, San Juan, P.R.
cardiovascular diseases; arteriosclerosis; myocardial infarct; congenital heart disease; vectorcardiography; electrocardiography; research programs; socioeconomics.. low income groups; electrolytes

HE-04056 SELKURT, EWALD E., Sch. Med., Indiana Univ., Indianapolis, Ind.
hemorrhagic shock; heart failure; blood pressure; blood vessels vasomotion; heart function; liver circulation; veins..portal veins; blood flow; primates..monkeys; viscera

HE-04085 GROOM, DALE, Med. Col. South Carolina, Charleston, S.C.
instrumentation--methodology; phonocardiography; heart sounds; diagnostic tests; cardiovascular disorders

HE-04106 CAMBELL, GILBERT S., Univ. Oklahoma Med. Cr., Okla. City, Okla.
alkalosis; blood; heart function; heart rate; hydrogen-ion concentration; sympathomimetic agents

HE-04107 LOYKE, HUBERT F., St. Vincent Charity Hosp., Cleveland, Ohio
liver diseases; kidney..juxtaglomerular apparatus; bioassay; antiotensinogen; vasoactive agents.. vasopressors; renal hypertension; desoxycorticosterone; enzymes

HE-04109 BURROWS, BENJAMIN, Sch. Med., Univ. Chicago, Chicago, Ill.
longitudinal study; pulmonary emphysema; pulmonary hypertension

HE-04132 KUHN, LESLIE A., Mount Sinai Hosp., N.Y.C.
blood circulation dynamics; blood vessels resistance; extracorporeal circulation; heart function; hypothermia; myocardial infarct; shock

HE-04156 ECKSTEIN, RICHARD W., Sch. Med., Western Reserve Univ., Cleveland, Ohio
coronary occlusions and thrombosis; arteries.. coronary arteries; heart catheterization; shock; blood pressure; blood volume; heart function; electromagnetic flowmeter

HE-04160 **DETWEILER, DAVID K.**, Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
heart failure..congestive heart failure; blood circulation dynamics; oxygen consumption; actin; myosin; stress

HE-04211 **CLIFFTON, EUGENE E.**, Med. Col., Cornell Univ., New York, N.Y.
venous occlusions; therapy; thrombosis; drugs; thromboembolism; blood coagulation..fibrinolysis

HE-04226 **SAID, SAMI I.**, Med. Col. Virginia, Richmond, Va.
pulmonary circulation; capillaries; pulmonary diffusion; pulmonary edema; surface properties; gases; carbon dioxide tension; oxygen tension; lymph

HE-04302 **SANCETTA, SALVATORE M.**, Cleveland Metropolitan Gen. Hosp., Western Reserve Univ., Cleveland, Ohio
blood circulation dynamics; cerebrovascular system; heart; heart failure; heart enlargement..ventricular hypertrophy; pulmonary circulation; arteries..coronary arteries; heart function; exercise

HE-04326 **TAYLOR, W. JAPE**, Col. Med., Univ. Florida, Gainesville, Fla.
acidosis; alkalosis; blood flow; liver circulation; liver ischemia and hypoxia

HE-04355 **HEGNAUER, ALBERT H.**, Sch. Med., Boston Univ., Boston, Mass.
electrophysiology; heart function; hypothermia

HE-04392 **KITTLE, C. FREDERICK**, Univ. Kansas Med. Cr., Kansas City, Kans.
blood circulation dynamics; extracorporeal circulation; heart function; hypercapnia; pulmonary hypertension

HE-04394 **MILLS, LEWIS C.**, Hahnemann Med. Col., Philadelphia, Pa.
adrenergic receptors; sympathomimetic agents; blood flow; arteries; shock; vasoactive agents..vasopressors; therapy

HE-04395 **BARNES, ROBERT H.**, Greater Kansas City Mental Hlth. Fdn., Kansas City, Mo.
cerebroarterial occlusions extracranial; arteries..carotid arteries; arteries..ophthalmic artery; pulse pressure waves; electroencephalography; diagnostic tests; aging

HE-04413 **FREEDBERG, A. STONE**, Beth Israel Hosp., Boston, Mass.
arrhythmia (cardiac); catecholamines; heart function; heart rate; thyroid gland

HE-04448 **KOLFF, WILLEM J.**, Cleveland Clinic Fdn., Cleveland, Ohio
heart..artificial heart; heart function; instrumentation; heart valves prosthesis; plastics; blood coagulation.. fibrinolysis; heparin; electronic recording; body fluids; mechanical pressure

HE-04454 **HALE, ALFRED R.**, Col. Med., Tulane Univ., New Orleans, La.
angiography; brain; brain ischemia and hypoxia; cerebrovascular disorders; cerebrovascular system

HE-04469 **KOCH, ALAN R.**, Sch. Med., Univ. Washington, Seattle, Wash.
bicarbonates; blood..plasma; cardiac glycosides; chlorides; kidney function; ouabain; potassium; sodium

HE-04532 **WEGRIA, RENE**, Sch. Med., St. Louis Univ., St. Louis, Missouri
adenosinephosphates; amino acid; blood circulation dynamics; enzymes; fatty acid; glucose; heart..myocardium; heart failure; lactates; oxygen consumption; phosphatases.. adenosine triphosphatase; phosphocreatine; pyruvate; tachycardia; valvular heart diseases

HE-04537 **BURDETTE, WALTER J.**, Col. Med., Univ. Utah, Salt Lake City, Utah
genetics; cardiovascular diseases; congenital heart disease; teaching; information exchange

HE-04553 **BOURNE, GEOFFREY H.**, Sch. Med., Emory Univ., Atlanta, Ga.
arteries..aorta; blood vessels; dietary deficiency; fatty acids; phosphatases

HE-04560 **GLASS, BERTRAM A.**, Sch. Med., Louisiana State Univ., New Orleans, La.
pulmonary hypertension; pulmonary arterial occlusions; heart catheterization; blood vessels shunts; arteries.. pulmonary artery

HE-04600 **MARMORSTON, JESSIE**, Sch. Med., Univ. Southern California, Los Angeles, Cal.
atherosclerosis; lipids..serum lipids; urine; steroid hormones; myocardial infract; cerebroarterial occlusions and thrombosis; estrogens; mental processes; therapy

HE-04659 **SCHLEGEL, JORGEN U.**, Tulane Univ. Med. Sch., New Orleans, La.
renal hypertension; vasoactive agents..vasopressors; diet; kidney function; bacteria; urea; pyelonephritis; chlormerodrin; hippurates

HE-04664 **WOOD, EARL H.**, Mayo Assn., Rochester, Minn.
arteries..dorsalis pedic artery; arteries..femoral artery; blood circulation dynamics; computer; densitometry; exercise; indicator dilution (concentration) techniques; instrumentation; mathematical models; vasoactive agents

HE-04666 **ESCHER, DORIS J.W.**, Montefiore Hosp., Bronx, N.Y.
cardiorenal disorders; heart conduction system..heart pacemakers; heart block..Stokes-Adams disease; oxygen consumption; heart function; blood pressure; blood vessels resistance; kidney function; electronic heart stimulators

HE-04684 **FRIEDMAN, JULIUS J.**, Indiana Univ. Med. Cr., Indianapolis, Ind.
peripheral vascular system; hemorrhagic shock; blood flow; vasoactive agents; leg; muscles; capillaries; nervous system..autonomic nervous system; membrane permeability and transport

HE-04797 **DUBOIS, ARTHUR B.**, Grad. Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
carbon dioxide transport; heart function; pulmonary airway resistance; pulmonary circulation; pulmonary function; respiratory diseases

HE-04801 **STUCKEY, JACKSON H.**, Sch. Med., State Univ. N.Y. Brooklyn, N.Y.
heart conduction system; electrophysiology; heart conduction system..bundle of His; heart conduction system..Purkinie fibers

HE-04807 **STEAD, EUGENE A., Jr.**, Sch. Med., Duke Univ., Durham, N.C.
cardiovascular diseases; research potential; training

HE-04886 **La DUE, JOHN S.**, Sloan-Kettering Inst., New York, N.Y.
exercise; heart diseases; angina pectoris; fats; myocardial infarct; diet; myocardial ischemia and hypoxia; telemetering; electrocardiography; instrumentation--methodology; heart..myocardium; enzymes

HE-04929 **GERTER, MENARD M.**, Sch. Eng., Sci., New York Univ., New York, N.Y.
computer analysis; diagnostic tests

HE-04980 **CORCORAN, ARTHUR C.**, Veterans Admin. Hosp., Ann Arbor, Mich.
hypertension (systemic); atherosclerosis; fat tolerance; amines; sympathomimetic agents; angiotensin

HE-04997 **KEYS, ANCEL B.**, Sch. Pub. Hlth., Minnesota, Minneapolis, Minn.
age; cardiovascular system; lipids; psychology; respiration; smoking

HE-04998 **LURIE, PAUL R.**, Sch. Med., Indiana Univ., Indianapolis, Ind.
children; congenital heart disease; exercise

HE-05001 **PENNEYS, RAYMOND**, Philadelphia Gen. Hosp., Philadelphia, Pa.
muscle..skeletal muscle; limbs; ischemia; peripheral vascular diseases; oxidoreductases..lactate dehydrogenase; embolism; aminotransferases..aspartate transaminase; enzymes..isoenzymes; myocardial ischemia and hypoxia

HE-05043 **BING, RICHARD J.**, Col. Med., Wayne State Univ., Detroit, Mich.
heart..myocardium; oleic acid; fatty acids; tricarboxylic acids; arteries..coronary arteries; veins..coronary vein; proteins; heart enlargement; heart failure..congestive heart failure; myosin; radiolabeled carbon; glycine; heart transplantation; gas chromatography; nicotine; catecholamines; myocardial ischemia and hypoxia

HE-05059 **ROBIN, EUGENE D.**, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
acid-base equilibrium; blood cells..erythrocytes; brain; cell components; gills; liver; lung disease; oxygen transport; pregnancy; pulmonary arterial occlusions; pulmonary function; pulmonary ventilation; single cell analysis; surface properties

HE-05080 **HARRISON, TINSLEY R.**, Univ. Alabama Med. Cr., Birmingham, Ala.
exercise; angina pectoris; blood circulation dynamics; heart function; oxygen transport; fasting

HE-05130 **DEMING, QUENTIN B.**, Albert Einstein Col. Med., Bronx, N.Y.
hypertension (systemic); cholesterol; atherogenesis; radiolabeled carbon

HE-05143 **DALY, MARIE M.**, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
arteries; atherosclerosis; cholesterol; hypertension (systemic)

HE-05155 **HOLLANDER, WALTER, Jr.**, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
kidney function; potassium; urinary tract disorders; habit; body water; vasopressin; sodium; hyponatremia; pituitary stalk section; pituitary gland disorders; hypercalcemia; diuretics

HE-05167 **MILLER, WILLIAM F.**, Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
gas chromatography; instrumentation--methodology; oxygen; carbon dioxide; carbon monoxide; nitrogen; gases; lung volume; pulmonary diffusion; lung diseases; exercise; respiration; sleep; chronic disease; oxyhemoglobin; pulmonary circulation; hypnotics and sedatives; stimulants; diagnostic tests

HE-05217 **ABELMANN, WALTER H.**, Boston City Hosp., Boston, Mass.
blood collateral circulation; cineangiocardiography; heart catheterization; heart diseases; liver cirrhosis; lung disease; pulmonary circulation

HE-05251 **ANTON, AARON H.**, Col. Med., Univ. Florida, Gainesville, Fla.
hypertension; norepinephrine; epinephrine; chemotherapy

HE-05256 **GALDSTON, MORTON**, New York Univ. Med. Cr., New York, N.Y.
lung..alveolus; surface properties; elasticity; lung disease; valvular heart diseases..mitral stenosis; heart diseases; aging; pulmonary function

HE-05276 **POST, ROBERT S.**, University Hospitals of Cleveland, Cleveland, Ohio
freezing; osmic acid; tissue preservation; kidney..renal tubular transport; proteins; lipids; potassium; dietary deficiency; sickle cell anemia; kidney function

CARDIOVASCULAR (CONTD)

HE-05317 **STEIN, MYRON,** Beth Israel Hosp., Boston, Mass.
thromboembolism; pulmonary circulation; lung..alveolus; carbon dioxide tension; oxygen tension; drugs; heart function; congenital heart disease..septal defect

HE-05322 **MITHOEFER, JOHN C.,** Mary Imogene Bassett Hosp., Cooperstown, N.Y.
acidosis; atelectasis; blood circulation dynamics; breath holding; respirators; thoracic surgery

HE-05324 **MANCHESTER, BENJAMIN,** Washington Hosp. Cr., Washington, D.C.
thromboembolism; coronary occlusions and thrombosis; blood coagulation..thromboplastin; blood coagulation.. factor VII; blood coagulation..factor IX; blood coagulation..factor X; blood coagulation..anticoagulants; diagnostic tests

HE-05337 **PETERSON, RICHARD E.,** Veterans Admin. Hosp., Iowa City, Iowa
sucrose; diurnal variation; computer; body fluids; mathematical models

HE-05379 **KLIP, WILLEM,** Univ. Alabama Med. Cr., Birmingham, Ala.
pulse pressure waves; blood vessels; body fluids; elastic tissue; instrumentation

HE-05390 **WHALEN, WILLIAM J.,** State Univ. Iowa, Iowa City, Iowa
heart function; oxygen consumption; lactates; catecholamines; digitalis; oxygen tension; heart.. myocardium; muscles

HE-05407 **SCHIEBLER, GEROLD L.,** Sch. Med., Univ. Florida, Gainesville, Fla.
blood circulation dynamics; heart block..atrioventricular block; heart function; longitudinal study

HE-05418 **MESCHAN, ISADORE,** Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.
kidney disorders; kidney function; diagnostic tests; radiolabeled

HE-05460 **LEVY, MATTHEW N.,** St. Vincent Charity Hosp., Cleveland, Ohio
amino acid; fatty acids; kidney; kidney circulation; lactates; pyruvate

HE-05466 **MAXWELL, GEORGE M.,** Sch. Med., Univ. Adelaide, Adelaide, South Australia
arteries..coronary arteries; blood flow; heart..myocardium; environment body temperature

HE-05483 **HELLEMS, HARPER K.,** Seton Hall Col. Med., Jersey City, N.J.
blood flow; coronary diseases; diet; gastrointestinal system; heart..myocardium; heart contraction; heart function; hormones; viscosity

HE-05491 **SIMONSON, ERNST,** Univ. Minnesota, Minneapolis, Minn.
age; body build; computer analysis; electrocardiography; exercise; heart diseases; heart rate; heart weight

HE-05529 **MUEHRCKE, ROBERT C.,** Presby-St. Luke's Hosp., Chicago, Ill.
acetophenetidine; adrenal glands; dehydrogenases..lactate dehydrogenases; dehydrogenases..malate dehydrogenases; hypertension (systemic); hypokalemia; kidney

HE-05531 **EICH, ROBERT H.,** State Univ. New York, Upstate Med. Cr., Syracuse, N.Y.
blood circulation dynamics; catecholamines; heart function; hypertension (systemic); longitudinal study; peripheral vascular resistance

HE-05532 **CALIVA, FRANCIS S.,** University Hosp., Syracuse, N.Y.
angiotensin; blood circulation dynamics; hypertension (systemic); peripheral vascular diseases; saluretics; veins

HE-05536 **KIMBEL, PHILIP, A.** Einstein Med. Cr., Philadelphia, Pa.
blood circulation dynamics; blood vessels resistance; heart diseases; heart surgery; pulmonary circulation

HE-05561 **EDELMAN, CHESTER M.,** Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
kidney function; water--electrolyte balance; kidney disorders; diuresis; urea; infant human; children; congenital heart disease; hydrogen--ion concentration; hypercalcemia

HE-05569 **CANDER, LEON,** Hahnemann Med. Col., Hosp., Philadelphia, Pa.
asthma; bronchodilators; gases; pulmonary diffusion; pulmonary emphysema; pulmonary function; pulmonary ventilation; surface active agents

HE-05570 **WEIL, MAX H.,** Sch. Med., Univ. Southern California, Los Angeles, Cal.
shock; blood circulation dynamics; septicemia; therapy evaluation; lactates; oxygen debt; primates..monkeys; endotoxins; perfusion

HE-05571 **BURROWS, DELTON A.,** Massachusetts Mem. Hosp., Boston, Mass.
kidney function; radiolabeled; renal hypertension

HE-05580 **JARETZKI, ALFRED, III,** Mary Imogene Bassett Hosp., Cooperstown, N.Y.
acidosis; alkalosis; arteries..coronary arteries; blood flow; heart..myocardium; heart function

HE-05584 **ROSS, RICHARD S.,** Sch. Med., Johns Hopkins Univ., Baltimore, Md.
coronary diseases; valvular heart diseases..mitral stenosis; valvular heart diseases..aortic valve disease; congenital heart disease; heart function; phonocardiography; cineangiocardiography; blood circulation dynamics; heart valves prosthesis; aldosterone

HE-05622 **RHODE, EDWARD A.,** Univ. California, Davis, Cal.
heart..ventricles; blood volume; blood pressure; exercise; nerves; cardioactive agents; hypervolemia; hemorrhage; heart function

HE-05645 **WOLF, STEWART G.,** Oklahoma Med. Res. Inst., Oklahoma City, Okla.
catecholamines; heart; hypertension (systemic); kidney; potassium; sodium; stress; urine

HE-05647 **TSALTAS, THEODORE T.,** Jefferson Med. Col., Philadelphia, Pa.
atherosclerosis; chemical structure; linemia; proteases..papain

HE-05684 **CULBERTSON, JAMES W.,** Col. Med., Univ. Tennessee, Memphis, Tenn.
kidney circulation; blood circulation dynamics; congenital heart disease; heart catheterization; cardiorenal disorders; heart surgery; kidney function; arrhythmia, cardiac; longitudinal study; sickle cell anemia; injury..burns; hemagglutination

HE-05711 **SHAPIRO, ALVIN P.,** Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
antihypertensive agents; blood pressure; genetics; hypertension, systemic; psychophysiology; vascular disorders

HE-05754 **EICHENHOLZ, ALFRED,** Veterans Admin. Hosp., Minneapolis, Minn.
acid-base equilibrium; acidosis; dietary deficiency; hypocapnia; hypokalemia; kidney function; liver cirrhosis; pulmonary function; thiamine

HE-05755 **AINGER, LORIN E.,** Sch. Med., Univ. Tennessee, Memphis, Tenn.
age; children; computer analysis; heart diseases; infants, human; magnetic recording system; vectorcardiography

HE-05757 **EMMANUEL, GEORGE E.,** Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
pulmonary ventilation; perfusion; lung; exercise; bronchitis; pulmonary emphysema

HE-05812 **FRENCH, GORDON N.,** Misericordia Hosp., Philadelphia, Pa.
heart contraction; heart rhythm; oxygen consumption

HE-05854 **SCHUDER, JOHN C.,** Univ. Missouri Med. Cr., Columbia, Mo.
electromagnetic fields; heart conduction system..heart pacemakers; heart..artificial heart; instrumentation

HE-05859 **BENDIXEN, HENRIK H.,** Mass. Gen. Hosp., Boston, Mass.
anesthetics; atelectasis; emotional reactions; morphine; phenothiazine; respiration

HE-05860 **FLANAGAN, C. LARKIN,** Sch. Med., Northwestern Univ., Chicago, Ill.
metal; kidney function; kidney..renal tubular transport; membrane permeability and transport; p-aminohippurate; sodium; potassium; enzymes; proteins; kidney disorders; water-electrolyte balance; chelating agents

HE-05872 **VANCE, JOHN W.,** Pub. Hlth. Res. Inst. Chronic Dis., State Univ., New York, Buffalo, N.Y.
pulmonary emphysema; carbon dioxide tension; catheterization

HE-05878 **SEAMAN, ARTHUR J.,** Sch. Med., Univ. Oregon, Portland, Ore.
blood coagulation..anticoagulants; cerebroaterial occlusions and thrombosis; coronary diseases; diet; fats; therapy evaluation; thromboembolism

HE-05880 **PARKER, BRENT M.,** Sch. Med., Washington Univ., St. Louis, Mo.
pulmonary arterial occlusions; pulmonary hypertension; vasoactive agents..vasopressors; heart failure..congestive heart failure; serotonin; histamine; veins..pulmonary vein

HE-05889 **SMYTHE, CHEVES M.,** Sch. Med., Col. South Carolina, Charleston, S.C.
blood groups; cardiorenal disorders; genetics; hemoglobin; pregnancy toxemias and hypertension; vascular disorders

HE-05933 **GAENSLER, EDWARD A.,** Sch. Med., Boston Univ., Boston, Mass.
hypoxia; pulmonary emphysema; bronchitis; smoking; asthma; pneumonectomy; pulmonary heart disease; steroids; pulmonary granuloma; pulmonary function; pulmonary diffusion; carbon monoxide; berylliosis; chemotherapy; respiratory diseases

HE-05948 **SCHMID, HERMAN E., Jr.,** Sch. Med., Wake Forest Col., Winston-Salem, N.C.
proteases..renin; angiotensin; kidney circulation; blood circulation dynamics; enzymes inhibitors..antirenin; vasoactive agents; kidney function; kidney..juxtaglomerular apparatus; electrolytes

HE-05989 **KERSHBAUM, ALFRED,** Philadelphia Gen. Hosp., Philadelphia, Pa.
smoking; nicotine; lipids..plasma lipids; nervous system..sympathetic nervous system; adrenal glands; tranquilizers; triglycerides; lipoproteins; myocardial infarct; fatty acids; cholesterol; sympatholytic agents; hyperlipemia; ethanol

HE-06010 **FERGUSON, DONALD J.,** Univ. Chicago, Chicago, Ill.
adrenal cortex hormones; arteries..pulmonary artery; arteriosclerosis; blood vessels shunts; heparin; pulmonary circulation; age

HE-06034 **TAQUINI, ALBERTO C.,** Sch. Med., Univ. Buenos Aires, Buenos Aires, Argentina
angiotensin; veins..renal vein; proteases..renin; renal hypertension; blood circulation dynamics; kidney function; body position; enzymes inhibitors..antirenin; kidney..juxtaglomerular apparatus; perfusion

HE-06100 **FERRANS, VICTOR J.,** Sch. Med., Tulane Univ., New Orleans, La.
heart..myocardium; heart failure..congestive heart failure; heart function; lipids; myocarditis; plasmalogens

HE-06102 **McKEEVER, WILLIAM P.,** Evanston Hosp. Assn., Evanston, Ill.
anaerobiosis; oxygen consumption; heart..myocardium; blood flow; arteries..coronary arteries; heart failure; heart..ventricles; ouabain; epinephrine; myocardial ischemia and hypoxia; hemorrhagic shock

HE-06119 **WINER, BERTRAM M.,** Sch. Med., Harvard Univ., Boston, Mass.
sodium chloride; dietary deficiency; antihypertensive agents; vasoactive agents..vasopressors; veins..renal vein; veins..vena cava; arteries..renal artery; hypertension (systemic); renal hypertension; blood pressure; blood vessels vasomotion; norepinephrine; blood volume; diuretics; aldosterone inhibitors; potassium; proteases..renin; veins..uterine vein; enzyme substrate; sex hormones; pregnancy; menstrual cycle; arterial stenosis; angiotensin

HE-06121 **TABAKIN, BURTON S.,** Col. Med., Univ. Vermont, Burlington, Vt.
blood circulation dynamics; exercise; heart function; indicator dilution (concentration) techniques; oxygen consumption; carbon dioxide; pulmonary ventilation

HE-06126 **DEMARIA, WILLIAM J.A.,** Sch. Med., Duke Univ., Durham, N.C.
kidney function; radiolabeled iodine; congenital abnormalities; children

HE-06228 **ROSS, JOSEPH C.,** Sch. Med., Indiana Univ., Indianapolis, Ind.
blood pressure; blood volume; capillaries; pulmonary circulation; pulmonary diffusion; vasoactive agents..vasodilators

HE-06229 **BLAQUIER, PEDRO,** Sch. Med., Univ. Buenos Aires, Buenos Aires, Argentina
blood pressure; renal hypertension; kidney function; proteases..renin; angiotensin; enzymes inhibitors..antirenin; chemical structure; kidney transplantation

HE-06232 **PADMAVATI, SIVARAMA,** Lady Hardinge Med. Col., Hosp., New Delhi, India
pulmonary heart disease; heart failure..congestive heart failure; air pollution; pulmonary function; cardiovascular system; blood circulation dynamics; geographical sites..Asia; epidemiology

HE-06233 **TALNER, NORMAN S.,** Sch. Med., Yale Univ., New Haven, Conn.
hypoxia; heart..interventricular septum; congenital heart disease..septal defect; oxygen tension; exercise; blood circulation dynamics; pulmonary function; pulmonary diffusion; children; infant human; heart failure..congestive heart failure

HE-06266 **GILBERT, ROBERT P.,** Evanston Hospital Assn., Evanston, Ill.
endotoxins; shock; hypotension; perfusion; radiolabeled; blood cells..erythrocytes; primates..monkeys; detoxication; blood volume; blood circulation dynamics

HE-06278 **TESTELLI, MARIO R.,** Inst. Cardiologia, Mexico, D.F.
heart conduction system; arrhythmia; cardioactive agents..antiarrhythmic agents; cardioactive agents..arrhythmic agents; potentials

HE-06297 **HUCKABEE, WILLIAM E.,** Massachusetts Mem. Hosp., Boston, Mass.
blood circulation dynamics; oxygen

HE-06393 **BARTORELLI, CESARE,** Sch. Med., Univ. Siena, Siena, Italy
brain..hypothalamus; electrostimulus; heart function; pulmonary circulation; stereotaxia

HE-06402 **ROSE, KENNETH D.,** Univ. Nebraska, Lincoln, Nebr.
cardiovascular system; electrocardiography; exercise; instrumentation-methodology; recreation; respiration; telemetering

HE-06403 **RAKITA, LOUIS,** Cleveland Met. Gen. Hosp., Cleveland, Ohio
electron microscopy; electrophysiology; heart enlargement

HE-06414 **WARREN, JAMES V.,** Col. Med., Ohio State Univ., Columbus, Ohio
heart function; nervous system..autonomic nervous system; drugs; heart..ventricles; heart rate

HE-06456 **LUCAS, RUSSELL V., Jr.,** West Virginia Univ. Med. Cr., Morgantown, W. Va.
congenital heart disease..septal defect; heart..interventricular septum; pulmonary circulation; capillary beds; cardiovascular diseases; children; valvular heart diseases ..pulmonary valve stenosis

HE-06459 **MEADOWS, WILLIAM R.,** Veterans Admin. Hosp., Hines, Ill.
heart failure..congestive heart failure; blood..plasma; cardioglobulins

HE-06523 **VALDIVIA, ENRIQUE,** Sch. Med., Univ. Wisconsin, Madison, Wis.
arteries..coronary arteries; blood collateral circulation; capillary beds; heart..myocardium revascularization; heart enlargement; myocardial ischemia and hypoxia; pulmonary circulation; pulmonary hypertension; pulmonary ischemia and hypoxia

HE-06542 **SILVERBERG, STANLEY M.,** Washington Hosp. Cr., Washington, D.C.
blood..serum; diagnostic tests; enzymes; heart enlargement..ventricular hypertrophy; myocardial infarct; vectorcardiography

HE-06546 **MENDLOWITZ, MILTON,** Mt. Sinai Hosp., N.Y.C.
aldosterone; angiotensin; catecholamines; enzymes; enzymes inhibitors; hypertension (systemic); norepinephrine; peripheral vascular system; pheochromocytoma; radiolabeled iodine; renal hypertension; tritium

HE-06548 **FRANK, CHARLES W.,** Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
valvular heart diseases..mitral insufficiency; congenital heart disease; indicator dilution (concentration) techniques

HE-06631 **STAMEY, THOMAS A.,** Sch. Med., Stanford Univ., Palo Alto, Cal.
angiotensin; kidney..glomerular filtration; kidney..renal tubular transport; renal arterial occlusions and stenosis; renal hypertension; renal ischemia and hypoxia

HE-06641 **SCHEINBERG, PERITZ,** Univ. Miami, Coral Gables, Fla.
antipyrine; blood flow; brain, cerebrum; cerebrovascular disorders; glucose; lactates; metabolites; pyruvate; radiolabeled iodine; scintillation counters

HE-06736 **BAEZ, SILVIO,** Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.
blood circulation dynamics; capillary beds; perfusion; membrane permeability and transport; narcotics; x--rays; lasers; thromboembolism

HE-06737 **WEISSLER, ARNOLD M.,** Sch. Med., Ohio State Univ., Columbus, Ohio
heart function; heart..ventricles; diagnostic tests; cardiovascular diseases; sex difference; digitalis; glycogen; epinephrine; perfusion

HE-06740 **BATTILANA, GUIDO,** Sociedad de Beneficencia Publica, Lima, Peru
altitude; pulmonary hypertension; blood circulation dynamics; atherosclerosis; diet; blood collateral circulation; heart..myocardium; hypoxia; congenital abnormalities; children; survey; congenital heart disease..septal defect

HE-06753 **SHENKIN, HENRY A.,** Episcopal Hosp., Philadelphia, Pa.
cerebroarterial occlusions and thrombosis; blood vessels vasomotion; blood flow; nervous system.. sympathetic nervous system

HE-06780 **REEVES, JOHN T.,** Sch. Med., Univ. Kentucky, Lexington, Ky.
pulmonary ischemia and hypoxia; pulmonary hypertension; blood vessels shunts

HE-06790 **SIEGEL, JOHN H.,** Sch. Med., Univ. Michigan, Ann Arbor, Mich.
heart contraction; heart..myocardium; blood pressure; heart enlargement; heart failure; cardioactive agents; hyperthyroidism; hypothermia

HE-06796 **FATT, IRVING,** Col. Eng., Univ. California, Berkeley, Cal.
oxygen transport; hemoglobin; blood; respiratory diseases; space medicine; deep--sea diving

HE-06831 **LEONARD, EDWARD F.,** Sch. Eng., Columbia Univ., New York, N.Y.
artificial organs; membrane permeability and transport; liquid flow; hydrodynamics; body fluids

HE-06836 **ATTINGER, ERNST O.,** Presbyterian Hosp., Philadelphia, Pa.
heart rate; blood circulation dynamics; pulmonary circulation; capillary beds; computer

HE-06846 **MOORE, SAMUEL W.,** Sch. Med., Cornell Univ., New York, N.Y.
arteries..renal artery; pulse pressure waves; renal hypertension

HE-06848 **BENDIXEN, HENRIK H.,** Massachusetts Gen. Hosp., Boston, Mass.
atelactasis; blood; blood vessels shunts; carbon dioxide tension; oxygen tension; pulmonary function; pulmonary ventilation; respirators

HE-06851 **GUZ, ABRAHAM,** Charing Cross Hosp. Med. Sch., London, England
heart function; blood flow; arteries..aorta; arteries.. pulmonary artery; myocardial ischemia and hypoxia; implants; electromagnetic flowmeter

HE-06881 **MURRAY, M. JOHN,** Sch. Med., Univ. Minnesota, Minneapolis, Minn.
catheterization; veins..azygos vein; vasoactive agents; portal hypertension; blood pressure; oxygen tension; toxicology

HE-06910 **PENALOZA, DANTE,** Peruvian Univ. Med., Biol. Sci., Lima, Peru
children; altitude; heart function; pulmonary function; blood circulation dynamics; arteries..coronary arteries; heart..myocardium; pulmonary circulation; congenital heart disease

HE-06951 **DOWNIE, HARRY G.,** Ontario Vet. Col., Ontario, Canada
blood circulation dynamics; blood cells..thrombocytes; blood coagulation..anticoagulants; fatty acids; phospholipids; diet; thrombosis; cinematography; cell age; extracorporeal circulation; atherosclerosis

(contd)

CARDIOVASCULAR (CONTD)

HE-06968 IRISAWA, HIROSHI, Sch. Med., Hiroshima Univ., Kasumicho, Hiroshima, Japan
heart..ventricles; heart..atrium; potentials..action potentials; electrocardiography; instrumentation; electrodes..microelectrodes; ureter; muscles..smooth muscles; ions; heart..myocardium

HE-06984 FULTON, GEORGE P., Grad. Sch., Boston Univ., Boston, Mass.
capillary beds; injury; cold; blood flow; transparent chamber technique

HE-07015 WHIPPLE, GERALD H., Sch. Med., Boston Univ., Boston, Mass.
electronic heart stimulators; heart failure..congestive heart failure; heart rate; instrumentation-methodology; therapy

HE-07039 GERST, PAUL H., Col. Phys., Surg., Columbia Univ., N.Y.C.
extracorporeal circulation..cardiac bypass; pulmonary ventilation; perfusion; pulmonary function; pulmonary circulation; blood flow; gases; hypothermia

HE-07041 CARR, HERMAN E., Jr., Sch. Med., Boston Univ., Boston, Mass.
aldosterone; hypertension (systemic); acetylation; steroids; adrenal glands; urine; metabolites

HE-07044 KILLIP, THOMAS, III, Col. Med., Cornell Univ., New York, N.Y.
vasoactive agents..vasopressors; amine; shock; heart function; myocardial infarct; peripheral vascular resistance; indicator dilution (concentration) techniques; blood circulation dynamics

HE-07047 TRUEX, RAYMOND C., Sch. Med., Temple Univ., Philadelphia, Pa.
heart conduction system

HE-07059 BERNSTEIN, ARTHUR, Newark Beth Israel Hosp., Newark, N.J.
arrhythmia (cardiac); myocardial infarct; coronary diseases; surgery..postoperative; electrocardiography; telemetering

HE-07070 HERTZMAN, ALRICK B., Sch. Med., St. Louis Univ., St. Louis, Mo.
blood circulation dynamics; body fluids; body temperature; brain; cardiovascular diseases; catecholamines; heart catheterization; heart function; heat; kidney; muscle; respiration; skin; stress

HE-07075 SENAY, LEO C., Jr., Sch. Med., St. Louis Univ., St. Louis, Mo.
acid-base equilibrium; blood volume; carbon dioxide; dehydration (body fluids); hyperthermia; hyposmolarity; peripheral vascular system; sweat; thermoregulation

HE-07080 GILBRECH, DONALD A., Col. Eng., Univ. Arkansas, Fayetteville, Ark.
viscosity; blood, body fluids; viscosimetry; blood flow impedance; blood flow..oscillatory blood flow; blood vessels models

HE-07081 LIPPMANN, HEINZ I., Albert Einstein Sch. Med., Bronx, N.Y.
exercise; blood flow; instrumentation; electromagnetic induction plethysmography

HE-07104 BEDELL, GEORGE N., Sch. Med., State Univ. Iowa, Iowa City, Iowa
pulmonary circulation; capillaries; blood volume; pulmonary diffusion; exercise; acetylcholine; carbon dioxide; histamine; norepinephrine; heart diseases; lung disease

HE-07107 SELZER, ARTHUR, Inst. Med. Sci., San Francisco, Cal.
heart failure; blood circulation dynamics; heart surgery; digitalis; valvular heart diseases; heart function; heart..myocardium; pulmonary function

HE-07108 JAMES, THOMAS N., Henry Ford Hosp., Detroit, Mich.
heart rate; cardioactive agents; electrophysiology; perfusion; heart..atrium; coronary occlusions and thrombosis; blood pressure; heart..myocardium revascularization; arrhythmia, cardiac; heart conduction system

HE-07109 NATHAN, DAVID A., Mt. Sinai Hosp., Miami Beach, Fla.
heart block..Stokes-Adams disease; electronic heart stimulators; heart..ventricles; instrumentation; arrhythmia, cardiac

HE-07121 CARTON, ROBERT W., Presbyterian-St. Luke's Hosp., Chicago, Ill.
lung; connective tissue; elasticity; lung volume; surface properties; pulmonary emphysema

HE-07136 DREIFUS, LEONARD S., Hahnemann Med. Col, Philadelphia, Pa.
arrhythmia, cardiac..ventricular fibrillation; electricity; hypothermia; electroshock; myocardial ischemia and hypoxia; electrodes..microelectrodes; membrane permeability and transport; cytology

HE-07137 RICHARDSON, TRAVIS Q., Sch. Med., Univ. Mississippi, Jackson, Miss.
blood circulation dynamics; blood volume; heart..atrium; pulmonary circulation; hypertension

HE-07139 LEVINE, HERBERT J., New England Cr. Hosp., Boston, Mass.
blood circulation dynamics; heart failure..congestive heart failure; exercise; heart..ventricles; blood volume; heart contraction; heart rhythm

HE-07158 GUNTHEROTH, WARREN G., Sch. Med., Univ. Washington, Seattle, Wash.
blood volume; blood flow; ultrasonic flowmeter; abdominal viscera; liver; spleen; kidney circulation; mesentery; blood pressure; ultrasonics; shock; sonar

HE-07159 BLAKE, THOMAS M., Univ. Hosp., Sch. Med., Univ. Mississippi, Jackson, Miss.
vasa vasorum; arteries..coronary arteries; blood supply; lymphatic system; atherosclerosis; coronary occlusions and thrombosis

HE-07174 MILNOR, WILLIAM R., Sch. Med., Johns Hopkins Univ., Baltimore, Maryland
cardiovascular system; lung volume; blood circulation dynamics; heart..myocardium; electrophysiology

HE-07269 DOYLE, JOSEPH T., Albany Med. Col., Albany, N.Y.
atherosclerosis; arrhythmia (cardiac); coronary diseases; hypertension (systemic); longitudinal study; epidemiology

HE-07281 PERLOFF, JOSEPH K., Georgetown Univ. Med. Cr., Washington, D.C.
blood circulation dynamics; liver cirrhosis; heart rate; indicator dilution (concentration) techniques; radiography; electrocardiography; heart function; blood volume; radiolabeled phosphorus; blood cells..erythrocytes; pulmonary hypertension; serotonin; clinical study; pulmonary circulation

HE-07315 LUKAS, DANIEL S., Sch. Med., Cornell Univ., N.Y.C.
blood circulation dynamics; blood flow; gas chromatography; gases..inert gases; heart catheterization; hydrogen; myocardial ischemia and hypoxia; myocardosis; neon; nitrous oxide; oxygen consumption; radiolabeled krypton

HE-07325 SOBIN, SIDNEY S., Sch. Med., Loma Lindu Univ., Los Angeles, Cal.
blood pressure; blood vessels; blood vessels models; blood volume; silicone rubber

HE-07335 ISAACS, JULIEN H., Mount Sinai Hosp., Los Angeles, Cal.
myocardial ischemia and hypoxia; heart function; stress; exercise; electrophysiology; heart disorders; diagnostic tests; electrical fields

HE-07342 de CARVALHO AZEVEDO, ARTHUR, Hosp. N.S. das Vitorias, Rio de Janeiro, Brazil
valvular heart diseases..tricuspid valve disease; diagnostic tests; congenital heart disease; heart surgery; blood circulation dynamics; heart catheterization; valvular heart diseases..aortic valve disease; valvular heart diseases..mitral stenosis; phonocardiography

HE-07364 BELLET, SAMUEL, Philadelphia Gen. Hosp., Philadelphia, Pa.
cardiovascular system; exercise; heart function; indicator dilution techniques (concentration); blood pressure; electrocardiography; pulmonary function; electroencephalography; radioelectrocardiography; electron recording; adults; heart rate; pulmonary ventilation; pulmonary diffusion; gases

HE-07371 SAWYER, PHILIP N., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
atherosclerosis; blood vessels; ion exchange; non-electrolytes; osmostic pressure; potentials..membrane potentials

HE-07372 WHEELER, H. BROWNELL, Veterans Admin. Hosp., West Roxbury, Mass.
arteries..carotid arteries; blood circulation dynamics; brain; cerebroarterial occlusions extracranial; diagnostic tests; electromagnetic flowmeter; phantom models; radiolabeled iodine

HE-07388 LANGE, RAMON L., Sch. Med., Marquette Univ., Milwaukee, Wis.
blood flow; blood volume; cardiovascular system; chemoreceptors; indicator dilution (concentration) techniques; lung..alveolus; pulmonary circulation

HE-07389 FINKLE, ALEX L., Sch. Med., Univ. California, San Francisco, Cal.
blood pressure; catheterization; hydrohephrosis; kidney circulation; renal hypertrophy; ureteral stenosis

HE-07397 DuBOIS, ARTHUR B., Univ. Pennsylvania, Philadelphia, Pa.
blood flow impedance; blood volume; heart failure.. congestive heart failure; pulmonary circulation; pulmonary ventilation; pulse pressure waves

HE-07398 STEINER, SHELDON H., Veterans Admin. Hosp., Indianapolis, Ind.
acidosis; alkalosis; blood circulation dynamics; carbon dioxide; cerebrovascular disorders; cerebrovascular system; electrolytes; hyperpnea; 4-iodoantipyrine; isotope dilution (concentration) techniques; phantom models; radioisotopes..krypton 85; radioisotopes..rubidium 86; radiolabeled iodine

HE-07399 CREE, EDNA M., Sch. Med., Univ. Wisconsin, Madison, Wis.
pneumonectomy; blood volume; pulmonary diffusion; bronchospirometry; pulmonary ventilation; pulmonary circulation

HE-07406 REYNOLDS, ERNEST W., Jr., Univ. Michigan Med. Cr., Ann Arbor, Mich.
diagnostic tests; electrocardiography monitor; digitalis; quinidine; arrhythmia, cardiac; antazoline; coronary occlusions and thrombosis; monitoring

HE-07414 OVERMAN, RICHARD R., Sch. Med., Univ. Tennessee, Memphis, Tenn.
heart function; hippurates; iodopyracet; kidney; kidney function; nephritis; radiation effects..whole body radiation; radiolabeled iodine; radiolabeled potassium; radiolabeled sodium; renal hypertension

HE-07415 **MOGHADAM, A.N., Philadelphia Gen. Hosp., Philadelphia, Pa.**
heart failure..congestive heart failure; heart intracardiac pressures; heart intracardiac volume; heart catheterization; exercise; heart function; reserpine; heart..myocardium; dextran; acetylcholine; norepinephrine; ganglionic blocking agents (nonspecific); blood flow

HE-07469 **NOVACK, PAUL, Hahnemann Med. Col., Hosp., Philadelphia, Pa.**
coronary diseases; heart..myocardium; blood circulation dynamics; heart function

HE-07473 **ARCHIBALD, REGINALD M., Rockefeller Inst., New York, N.Y.**
renal hypertension; edema (generalized); angiotensinase

HE-07478 **COBB, LEONARD A., Jr., Sch. Med., Univ. Washington, Seattle, Wash.**
nervous system; blood circulation dynamics; heart function; hypnosis; neurohormones; mental disorders; vasoactive agents; heart diseases; psychophysiology; electrostimulus; craniotomy; radiolabeled iodine; sodium; nitrous oxide; radiolabeled krypton; muscle hypertrophy; blood flow; muscles..skeletal muscle

HE-07482 **PERL, WILLIAM, Goldwater Mem. Hosp., Welfare Island, New York, N.Y.**
thermistor thermoelectric needle; blood flow; capillaries; body temperature; instrumentation--methodology

HE-07483 **WENNEMARK, JAMES R., Sch. Med., Northwestern Univ., Chicago, Illinois**
heart block; heart conduction system..Purkinje fibers; heart failure..congestive heart failure; blood circulation dynamics

HE-07539 **GREENE, DAVID G., State Univ. N.Y. Res. Fdn., Buffalo, N.Y.**
angiocardiography; heart..atrium; heart..ventricles; heart catheterization; heart function; heart intracardiac pressures; heart intracardiac volume; heart valves.. aortic valve; heart valves..mitral valve; valvular heart diseases

HE-07568 **SINCLAIR, JOHN D., Green Lane Hosp., Auckland, New Zealand**
blood flow; lung..bronchi; pulmonary arterial occlusions; pulmonary circulation

HE-07571 **BLISS, HARRY A., Sch. Med., Univ. Illinois, Chicago, Ill.**
heart..myocardium; hypoxia; heart failure..congestive heart failure; exercise; heart catheterization; heart function; blood flow; heart intracardiac pressures; veins..coronary sinus; radiolabeled krypton

HE-07574 **JULIAN, ORMAND C., Col. Med., Univ. Illinois, Chicago, Ill.**
blood flow; body temperature; heart surgery; hydrogen-ion concentration; hypothermia heart surgery; oxygen consumption; perfusion; peripheral vascular resistance; vasoactive agents..vasodilators

HE-07618 **KUIDA, HIROSHI, Sch. Med., Univ. Utah, Salt Lake City, Utah**
antihistamines; blood circulation dynamics; blood vessels resistance; blood volume; bovine high mountain disease; electromagnetic flowmeter; endotoxins; heart..ventricles; heart failure..congestive heart failure; heart function; hypotension; α-methyl DOPA; portal hypertension; promethazine; pulmonary hypertension; serotonin

HE-07649 **MacCANON, DONALD M., Chicago Med. Sch., Chicago, Ill.**
heart..pericardium; heart failure..congestive heart failure; blood circulation dynamics; kidney; electrolytes; valvular heart diseases..tricuspid insufficiency; pericardiotomy; digitalis; blood; lactates; adrenalectomy; hypophysectomy; therapy; chorda tendinotomy

HE-07664 **WALLACE, JOHN M., Med. Sch., Univ. Texas, Galveston, Tex.**
neuroendocrine systems; nervous system.. sympathetic nervous system; peripheral vascular resistance; hypertension (systemic); renal hypertension; norepinephrine; angiotensin; blood pressure; blood flow; heart function; ganglionic blocking agents, nonspecific

HE-07665 **PAPPER, SOLOMON, Sch. Med., Univ. New Mexico, Albuquerque, N.M.**
ascites; blood pressure; diurnal variation; electrolytes; heart function; hypertension (systemic); kidney circulation; liver cirrhosis; paracentesis; renal failure; saluresis

HE-07694 **MOKLER, CORWIN M., Col. Pharm., Univ. Florida, Gainesville, Fla.**
disopyramide; cardioactive agents..antiarrhythmic agents; heart..myocardium; heart conduction system..Purkinje fibers; potentials..membrane potentials; ion exchange and transport; nerve impulse transmission; radioisotopes.. potassium 42; radioisotopes..sodium 24

HE-07695 **ZAO, ZANG Z., De Goesbriand Memorial Hosp., Burlington, Vt.**
heart..artificial heart; phantom models; instrumentation--methodology; electrocardiography; vectorcardiography; electrical impedance; autopsy

HE-07717 **MITCHELL, JERE H., Southwestern Med. Sch., Univ. Texas, Dallas, Texas**
heart contraction; heart function; heart intracardiac volume; heart rate; nervous system..sympathetic nervous system; norepinephrine

HE-07721 **WARBASSE, JAMES R., U.S. Pub. Hlth. Service Hosp., Staten Island, N.Y.**
heart function; heart..ventricles; blood flow; blood pressure; blood flow impedance; arteries..aorta

HE-07722 **MACKAY, IAN F.S., Univ. District Hosp., Caparra Heights, Puerto Rico**
laboratory facilities; pregnancy; blood circulation dynamics; heart function; arteriosclerosis; valvular heart diseases..aortic insufficiency; veins; hypertension (systemic); pressoreceptors; cardiovascular system

HE-07724 **LEVY, MATTHEW N., St. Vincent Charity Hosp., Cleveland, Ohio**
arteries; blood flow impedance; brain ischemia and hypoxia; catecholamines; computer; heart..ventricles; heart contraction; heart function; pressoreceptors

HE-07739 **BASHOUR, FOUAD A., Southwestern Med. Sch., Univ. Texas, Dallas, Texas**
blood circulation dynamics; liver; liver function; blood pressure; stress; oxygen; carbon dioxide; respiration; exercise; posture; arteries..hepatic artery; veins..portal vein

HE-07744 **JOHNSON, ROBERT L., Jr., Southwestern Med. Sch., Univ. Texas, Dallas, Texas**
blood flow; blood pressure; blood volume; capillaries; capillary beds; oxygen tension; pulmonary circulation; pulmonary diffusion

HE-07750 **BOHR, DAVID F., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
electrodes..microelectrodes; muscle..smooth muscle; muscle contraction; potassium; sodium chloride; epinephrine; potentials..membrane potentials; electrostimulus; muscle stretch receptors; blood vessels

HE-07754 **ROWE, GEORGE G., University Hosp., Madison, Wis.**
coronary diseases; heart..myocardium revascularization; therapy evaluation; diet; exercise; myxedema; atherosclerosis; valvular heart diseases..aorta valve disease; aging; sex difference; adenosine triphosphate; arteries..coronary arteries; blood flow

HE-07758 **MARSHALL, ROBERT J., Sch. Med., West Virginia Univ., Morgantown, W.Va.**
cardiovascular system; heart function; blood volume; peripheral vascular system; saline solutions; hypertension (systemic); anesthesia; cardiovascular diseases; heat; blood collateral circulation; thyrotoxicosis; sympatholytic agents

HE-07776 **LOWN, BERNARD, Harvard Sch. Pub. Hlth., Boston, Mass.**
arrhythmia, cardiac..ventricular fibrillation; resuscitation; electrical defibrillation; blood circulation dynamics; myocardial ischemia and hypoxia; myocardial infarct; hypothermia; primates; arrhythmia, cardiac..atrial fibrillation; coronary occlusions and thrombosis; heart function

HE-07782 **BRECHER, GERHARD A., Emory Univ., Atlanta, Ga.**
heart function; blood flow; thermal dilution technique; instrumentation-methodology; heat; electrical conductance

HE-07795 **LAU, FRANCIS Y. K., Sch. Med., Loma Linda Univ., Los Angeles, Cal.**
infant human; children; vectocardiography; heart diseases; computer analysis; cooperative study

HE-07800 **RUNCO, VINCENT, JR., Creighton Mem. St. Joseph's Hosp., Omaha, Nebr.**
valvular heart diseases..aortic insufficiency; valvular heart diseases..mitral stenosis; valvular heart diseases..heart murmurs; heart surgery

HE-07842 **SCHMID, HERMAN E., Jr., Bowman Gray Sch. Med., Winston-Salem, N.C.**
kidney circulation; blood pressure; blood flow; catheterization; arteries..renal artery; radiolabeled iodine; inulin

HE-07852 **GOLDMAN, RALPH, Univ. California Med. Cr., Los Angeles, Cal.**
acid-base equilibrium; calcium; phosphorus; uremia; vitamin D resistant rickets

HE-07868 **KILBURN, KAYE H., Duke Univ. Med. Cr., Durham, N.C.**
lung..bronchi; pulmonary arterial occlusions; pulmonary ventilation; respiratory system reflexes; nasopharynx

HE-07871 **TYLER, JOHN M., Lemuel Shattuck Hosp., Boston, Mass.**
blood flow; heart function; kidney circulation; liver; liver cirrhosis; liver diseases; respiration..negative pressure breathing; water-electrolyte balance

HE-07873 **KIEN, GERALD A., Northwestern Univ. Med. Sch., Chicago, Ill.**
heart failure..congestive heart failure; myocardial ischemia and hypoxia; heart..myocardium; cardiovascular system; blood circulation dynamics; cardiac glycosides; muscle proteins; amino acids

HE-07880 **WHITTEN, CHARLES F., Col. Med., Wayne State Univ., Detroit, Mich.**
kidney function; sickle cell anemia; pyelonephritis; bacteriuria; hematuria; proteinuria; kidney..glomerular filtration; kidney..renal tubular transport; glucose; phosphorus; saluresis; proteins; diet; children

HE-07888 **SELVESTER, RONALD, Rancho Los Amigos Hosp., Downey, Cal.**
criteria; diagnostic tests; electrocardiography; heart.. interventricular septum; heart..myocardium; heart.. ventricles; heart enlargement..ventricular hypertrophy; heart surgery; vectorcardiography

HE-07904 **DIXON, FREDERICK, Georgia Inst. Technology, Atlanta, Ga.**
blood coagulation; blood pressure; cardiovascular diseases; diagnostic tests; flowmeters; instrumentation; pressure sensitive tunnel diode; thermistor hemodromography; valvular heart diseases..aortic insufficiency

(cont'd)

LISTING OF GENERAL RESEARCH AREAS

CARDIOVASCULAR (CONTD)

HE-08732 ZAPATA-ORTIZ, VICENTE, Univ. Peruana de Ciencias Medicas y Biol., Lima, Peru
pulmonary circulation; lung..bronchi; altitude; hypoxia; acclimatization; blood circulation dynamics; blood vessels shunts; drugs; epinephrine; norepinephrine; isoproterenol; acetylcholine; serotonin; geographical sites..Peru; histamine

HE-08752 GLAUSER, ELINOR M., Sch. Med., Temple Univ., Philadelphia, Pa.
age; hypercapnia; hypoxia; infants, animals..newborn; pulmonary emphysema; pulmonary function; sex difference

HE-08762 SALISBURY, PETER F., St. Joseph Hosp., Burbank, Cal.
heart function; heart..chorda tendinea; heart.. papillary muscles; heart intracardiac pressures; blood circulation dynamics; muscle tension; instrumentation--methodology; heart failure

HE-08766 THROWER, WENDELL B., New England Med. Hosp., Boston, Mass.
heart failure; extracorporeal circulation..heart-lung bypass; heart function; acid-base equilibrium; catecholamines; hypothermia; blood flow; heart surgery; anesthetics

HE-08770 EDGERTON, ROBERT H., Thayer Sch. Eng., Dartmouth Col, Hanover, N.H.
blood flow..oscillatory blood flow; electrical conductance; viscosity; blood cells..erythrocytes; blood vessels models

HE-08781 HERSHEY, DANIEL, Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio
blood flow; viscosity; blood cells..erythrocytes; cell-free systems; biomathematics; blood vessel models

HE-08784 WEAVER, ROBERT G., Col. Med., Univ. Utah, Salt Lake City, Utah
blood pressure; arteries..renal artery; renal hypertension; renal ischemia and hypoxia; renal arterial occlusions and stenosis; kidney..glomerular filtration; hydronephrosis

HE-08787 FREI, EPHRAIM H., Weizmann Inst. Science, Rehovoth, Israel
instrumentation--methodology; diagnostic tests; cardiovascular system; blood flow; magnetic field; therapy; heart conduction system..heart pacemakers

HE-08788 MANFREDI, FELICE, Veterans Admin. Hosp., Indianapolis, Ind.
pulmonary ventilation; acid--base equilibrium; carbon dioxide transport; body fluids; alkalosis; hydrogen--ion concentration

HE-08789 SHARP, JOHN T., VA Hospital, Hines, Ill.
thorax..intrathoracic pressure; esophagus.. intraesophageal pressure; respiratory system; pulmonary ventilation; lung diseases; age; body build; spondylitis; scoliosis; spinal cord lesions; obesity

HE-08793 HUGGINS, RUSSELL A., Col. Med., Baylor University, Houston, Tex.
blood volume; homeostasis; hemorrhage; liver; blood cells..erythrocytes; blood substitutes; blood pressure; antihistamines; sympatholytic agents; radiolabeled chromium; radiolabeled iodine

HE-08807 MURRAY, JOHN F., Univ. California Med. Cr., Los Angeles, Cal.
anemia; heart..atrium; heart intracardiac pressures; blood flow; peripheral vascular resistance; oxygen transport; viscosity; nervous system..sympathetic nervous system; catecholamines; ganglionic blocking agents, nonspecific

HE-08814 SWANN, H.G., Univ. Texas Med. Br., Galveston, Texas,
kidney circulation; ground substance; blood volume; blood pressure; proteins; angiotensin; natriuresis

HE-08827 PEARCE, MORTON L., Univ. California Med. Cr., Los Angeles, Cal.
heart diseases; pulmonary edema; pulmonary diffusion; pulmonary function; heart function; blood circulation dynamics; radiolabeled iodine

HE-08829 FELL, COLIN, Cornell Univ. Med. Col., New York, N.Y.
blood circulation dynamics; blood volume; hemorrhage; hemorrhagic shock; sympathomimetic agents; arteries.. carotid sinus; radiolabeled chromium; radiolabeled iodine; blood flow

HE-08834 GUNNAR, ROLF M., Cook County Hosp., Chicago, Ill.
myocardial infarct; shock; heart..myocardium; heart function; peripheral vascular resistance; drugs; therapy evaluation; methoxamine; norepinephrine; acetylstrophanthidin

HE-08845 WALLACE, ANDREW G., Duke Hosp., Durham, N.C.
electrophysiology; heart conduction system; nervous system..autonomic nervous system; nerves..denervation; arrhythmia, cardiac; cardiac glycosides; quinidine; hypothermia

HE-08852 MAURIZI, JEROME, Sch. Med., State Univ. New York, Buffalo, N.Y.
pulmonary circulation; lung..alveolus; lung diseases; heart diseases; diurnal variation; posture; gas tensions; nitrogen

HE-08861 HORAN, LEO G., Sch. Med., Univ. Tennessee, Memphis, Tenn.
instrumentation-methodology; criteria; computer analysis; potentials; heart function; electrocardiography

HE-08862 CREDITOR, MORTON C., Michael Reese Hosp. and Med. Cr, Chicago, Ill.
angiotensin; angiotensinase; hypertension (systemic); blood pressure; diagnostic tests; renal hypertension

HE-08868 WEXLER, BERNARD C., May Inst. Med. Res., Cincinnati, Ohio
arteries..carotid arteries; arteriosclerosis; cerebrovascular disorders; sex difference; connective tissue; diet; hypertension (systemic); sex hormones

HE-08873 FOX, IRWIN J., Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
heart function; stress; pulmonary arterial occlusions; Valsalva's maneuver; exercise; blood circulation dynamics; monitoring; blood volume; peripheral vascular resistance; catecholamines; serotonin; histamine

HE-08878 RAWSON, RUTH A., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
blood volume; blood..plasma; blood cells..thrombocytes; hematocrit; muscles; kidney; hypotension; hypovolemia; blood circulation dynamics; splenectomy

HE-08898 SANDERS, CHARLES A., Massachusetts Gen. Hosp., Boston, Mass.
cardiovascular system; viscosity; polycythemia; heart ..myocardium; heart function; blood circulation dynamics; oxygen transport; hematocrit

HE-08899 LAMBERTSEN, C.J., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
research programs; hyperbaric oxygenation; instrumentation; respiratory system reflexes; respiration; chemoreceptors; gas tensions; biomathematics; drugs; depressants; narcotics; anesthetics

HE-08902 LOURENCO, RUY V., Seton Hall Col. Med., Dent., Jersey City, N.J.
brain, respiratory center; carbon dioxide; pulmonary ventilation; pulmonary emphysema; hypercapnia; muscles ..respiratory muscles; diaphragm; oxygen consumption; electromyography

HE-08904 TELFER, NANCY, Harbor Gen. Hosp., Torrance, Cal.
sodium; ion exchange and transport; lung disease; hyponatremia; hypoxia; acidosis; pulmonary function; tris (hydroxymethyl) aminomethane; radiolabeled sodium; radiolabeled potassium; pulmonary emphysema; body water

HE-08906 KAPLAN, SAMUEL, Children's Hosp. Fdn., Cincinnati, Ohio
blood circulation dynamics; infant human; oxygen tension; carbon dioxide tension; electrodes..oxygen microelectrode; instrumentation; polarography

HE-08945 TAUXE, WELBY N., Mayo Association, Rochester, Minn.
renography; radiolabeled iodine; kidney function; diagnostic tests; mathematical models; laboratory facilities

HE-08968 CUGELL, DAVID W., Northwestern Univ. Med. Sch., Chicago, Ill.
carbon dioxide; gas tensions; respiration; homeostasis; exercise; pulmonary ventilation; lung disease; muscles..respiratory muscles; peripheral vascular system; blood flow; heart failure

HE-08976 FRASHER, WALLACE G., Jr., Sch. Med., Loma Linda Univ., Los Angeles, Cal.
blood flow; microcirculation; blood cells.. erythrocytes; cell components..cell wall; cell adhesion; viscosity; capillary beds; biological models; blood vessels shunts; cooperative study

HE-08977 WAYLAND, J. HAROLD, California Inst. Technology, Pasadena, Cal.
blood flow; microcirculation; blood cells.. erythrocytes; cell components..cell wall; cell adhesion; viscosity; capillary beds; biological models; blood vessels shunts; cooperative study

HE-09001 ZOLL, PAUL M., Beth Israel Hosp., Boston, Mass.
heart block..Stokes--Adams disease; heart block.. atrioventricular block; arrhythmia, cardiac.. ventricular fibrillation; heart conduction system.. heart pacemakers; cardioactive agents; digitalis; sympathomimetic agents; quinidine; threshold; heart rhythm; heart arrest; therapy evaluation

HE-09006 PALMER, JOHN D., Univ. Colorado Med. Cr., Denver, Colo.
peripheral vascular system; blood flow; endotoxins; shock; blood vessels vasomotion; sympathomimetic agents; nerve impulse transmission; pressoreceptors; therapy evaluation; primates

HE-09010 BROWN, ELWYN S., Children's Mercy Hosp., Kansas City, Missouri
pulmonary function; surface properties; pulmonary emphysema

HE-09018 WOOD, J. EDWIN, III, Sch. Med., Univ. Virginia, Charlottesville, Va.
angiotensin; hypertension; blood circulation dynamics; diagnostic tests; radiolabeled sodium

HE-09031 WEGRIA, RENE, Sch. Med., St. Louis Univ., St. Louis, Mo.
edema (generalized); heart..pericardium; lymph flow; thoracic duct; blood pressure; kidney function; aldosterone; body position; perfusion; heart failure ..congestive heart failure

HE-09051 KENNEDY, JOHN H., Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
electronic heart stimulators; implants; instrumentation--methodology

HE-09060 KANEKO, YOSHIHIRO, Tokyo Univ. Hosp., Tokyo, Japan
nervous system..sympathetic nervous system; renal hypertension; norepinephrine; angiotensin; aldosterone; tyramine; tetraethyl ammonium chloride; secretory mechanisms; pressoreceptors; kidney function; venous infusions

HE-09062 **NELSON, CLIFFORD V.**, Maine Med. Cr., Portland, Maine
vectorcardiography; potentials; dipole moments; respiration; instrumentation--methodology; electrocardiography

HE-09072 **THILENIUS, OTTO G.**, Sch. Med., Univ. Chicago, Chicago, Ill.
pulmonary circulation; capillary beds; blood vessels vasomotion; hypoxia; hypocapnia; acid--base equilibrium; exercise; heart function; sympathomimetic agents

HE-09073 **WITTE, MARLYS H.**, Sch. Med. New York Univ., New York, N.Y.
proteases..renin; aldosterone; lymph; thoracic duct; heart failure..congestive heart failure; liver cirrhosis; renal hypertension; secretory mechanisms; tritium

HE-09093 **PERLOFF, JOSEPH K.**, Sch. Med., Georgetown Univ. Hosp., Washington, D.C.
vasoactive agents..vasodilators; amyl nitrite; nitroglycerin; blood circulation dynamics; arterial stenosis; arteries..pulmonary artery; arteries..aorta; diagnostic tests

HE-09099 **BRODY, ALFRED W.**, Sch. Med., Creighton Univ., Omaha, Nebr.
lung volume; heart intracardiac volume; pulmonary circulation; pulmonary function; diagnostic tests; pulmonary ventilation; Evans Blue; ethers; lung diseases; heart diseases; digitalis

HE-09112 **BROWN, DONALD W.**, Univ. Colorado Med. Cr., Denver, Colo.
mathematical models; kidney function; hippurates; diffusion; blood cells..erythrocytes; body fluids; computer simulation; bile acids and salts; kidney circulation; radiolabeled iodine; radiolabeled chromium

HE-09145 **CORDAY, ELIOT**, Cedars Lebanon Hosp., Los Angeles, Cal.
arrhythmia, cardiac; tachycardia; arteries..carotid sinus; heart surgery; cardioactive agents..antiarrhythmic agents; digitalis; aconitine; nerve impulse transmission

HE-09146 **ONESTI, GADDO**, Hahnemann Med. Col. and Hosp., Philadelphia, Pa.
blood pressure; homeostasis; blood circulation dynamics; body fluids; water--electrolyte balance; hemodialysis; nephrectomy; renal hypertension; renal failure; kidney transplantation; tritium; radiolabeled sodium; radiolabeled iodine

HE-09150 **BERNSTEIN, LIONEL M.**, Veterans Admin. West Side Hosp., Chicago, Ill.
kidney function; renal hypertension; kidney hyperplasia; renal arterial occlusions and stenosis; diuresis; vasopressin; osmotic pressure; instrumentation--methodology

HE-09151 **GERTLER, MENARD M.**, New York Univ. Med. Cr., New York, N.Y.
heart failure..congestive heart failure; arrhythmia, cardiac..atrial fibrillation; cell components..mitochondria; oxidative phosphorylation; nucleotides; phosphates; enzymes; quinidine; radiolabeled phosphorus

HE-09153 **BERGAN, JOHN J.**, Northwestern Univ., Med. Sch., Chicago, Ill.
blood vessels revascularization; blood circulation dynamics; arteries..superior mesenteric artery; ischemia; hyperkalemia; bradycardia; therapy evaluation; heparin; dextran; oxygen inhalation therapy..hyperbaric oxygen therapy; perfusion; ion exchange resins

HE-09154 **HERD, JAMES A.**, Harvard Med. Sch., Boston, Mass.
brain..cerebral cortex; brain subcortical structures; nervous system..peripheral nerves; electrostimulus; blood flow; heart function; blood pressure; brain lesions; radiolabeled krypton; heart failure..congestive heart failure; renal hypertension; atherosclerosis; primates..monkeys; kidney function

HE-09155 **CHARMS, BERNARD L.**, Mount Sinai Hosp., Cleveland, Ohio
surface active agents; lung..alveolus; cell components ...mitochondria; pulmonary function; lung diseases; perfusion; lipids; reaction sites

HE-09156 **LISTER, JOHN W.**, U.S. Pub. Hlth. Service Hosp., Staten Island, N.Y.
electrophysiology; heart..ventricles; heart conduction system..atrioventricular node; heart block; heart function; diagnostic tests; blood circulation dynamics

HE-09160 **SMITH, ELVIN E.**, Univ. Mississippi Med. Cr., Jackson, Miss.
congenital heart disease; cyanosis; polycythemia; heart function; blood vessels shunts..arteriovenous shunt; oxygen transport; blood pressure; hematopoiesis ..erythropoiesis; computer simulation; altitude; exercise

HE-09183 **SARLES, HARRY E.**, Univ. Texas Med. Br., Galveston, Tex.
natriuresis; pregnancy toxemias and hypertension; pyelonephritis; glomerulonephritis; diagnostic tests; water--electrolyte balance; kidney..glomerular filtration; kidney circulation

HE-09184 **RAAB, WILHELM**, Col. Med., Univ. Vermont, Burlington, Vt.
myocardial ischemia and hypoxia; adrenal cortex hormones; catecholamines; stress; longitudinal study; prediction; preventive medicine; epidemiology; diagnostic tests

HE-09187 **WRIGHT, GEORGE W.**, Saint Luke's Hosp., Cleveland, Ohio
pulmonary emphysema; pulmonary circulation; lung transplantation; antimetabolites; nitrogen dioxide; 6--mercaptopurine; immunology..antibodies

HE-09189 **REMMERS, AUGUST R.**, Jr., Univ. Texas Med. Br., Galveston, Tex.
renal hypertension; diagnostic tests; kidney function; aorta coarctation

HE-09210 **SAPIRSTEIN, LEO A.**, Col. Med., Stanford Univ., Stanford, Cal.
heart function; blood flow; hemorrhagic shock; cardiovascular system; radiolabeled rubidium; radiolabeled iodine; pentobarbital

HE-09230 **TYLER, MYRA D.**, Univ. Mississippi Med. Cr., Jackson, Miss.
hydrogen--ion concentration; hyperpnea; exercise; kidney disorders; dyspnea; pulmonary function; heart function; chronic disorders

HE-09234 **WELTY, JOSEPH D.**, Jr., Sch. Med., Univ. South Dakota, Vermillion, S.D.
amino acid sequence, heart failure..congestive heart failure; actin; myosin; tropomyosin; heart..myocardium; muscle contraction

HE-09292 **DE FANTI, DAVID R.**, Col. Pharm., Univ. Rhode Island, Kingston, R.I.
renal hypertension; blood pressure; dopamine; oxidoreductases..monoamine oxidase; transferases..catechol O--methyl transferase; electrolytes

HE-09298 **COSBY, RICHARD S.**, Sch. Med., Univ. Southern California, Los Angeles, Cal.
heart block..atrioventricular block; heart block..Stokes--Adams disease; heart rate; heart rhythm; heart conduction system..heart pacemakers; diagnostic tests; therapy evaluation; instrumentation

HE-09316 **REYNOLDS, TELFER B.**, Sch. Med., Univ. Southern California, Los Angeles, Cal.
liver cirrhosis; ascites; edema (generalized); blood coagulation..fibrinogen; diuretics; blood cells..erythrocytes; albumins..plasma albumins; renal failure; blood volume; blood circulation dynamics; portal hypertension; radiolabeled iodine; radiolabeled chromium

HE-09327 **SAPIRSTEIN, LEO A.**, Sch. Med., Stanford Univ., Palo Alto, Cal.
brain..cerebral cortex; blood flow; cerebrovascular disorders; carbon dioxide; blood vessels vasomotion; neurosurgery; surgery..postoperative; diagnostic tests; arteries..carotid arteries; radiolabeled iodine; radiolabeled potassium

HE-09329 **LEITER, ELLIOT**, Mount Sinai Hosp., New York, N.Y.
oxygen tension; kidney..renal medulla; kidney..renal tubular transport; kidney circulation; renal hypertension; kidney function; sodium

HE-09333 **SWENSON, EDWARD W.**, Col. Med., Univ. Florida, Gainesville, Fla.
pulmonary edema; pulmonary arterial occlusions; blood circulation dynamics; heart function; pulmonary function; diagnostic tests; therapy evaluation; blood coagulation..anticoagulants; catecholamines; acetylcholine; histamine; serotonin; parasympatholytic agents

HE-09337 **PONTOPPIDAN, HENNING**, Massachusetts Gen. Hosp., Boston, Mass.
pulmonary circulation; pulmonary diffusion; respiration..positive pressure breathing; pulmonary ventilation; dead space; respirators; respiratory disorders; carbon dioxide transport; oxygen transport

HE-09351 **STRAUSS, JOSE**, Childrens Hosp., Los Angeles, Cal.
kidney function; kidney circulation; oxygenation; renal failure; shock; fetus; infant animals..newborn; acid--base equilibrium; hypoxia; drugs

HE-09363 **EICH, ROBERT H.**, Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
heart function; exercise; blood circulation dynamics; peripheral vascular resistance; thyrotoxicosis; polyneuritis; cardiovascular disorders; heart failure..congestive heart failure; nervous system..autonomic nervous system; neuromuscular blocking agents; radioisotopes..krypton 85

HE-09366 **BRYAN, GEORGE T.**, Univ. Texas Med. Br., Galveston, Tex.
aldosterone; children; hypertension (systemic); diurnal variation; kidney function; adrenal glands; electrolytes; adenoma

HE-09388 **GRAYZEL, JOSEPH**, Electronics Res. Labs., Columbia Univ., New York, N.Y.
computer simulation; electrophysiology; heart..ventricles; heart conduction system; heart weight; heart intracardiac volume; heart enlargement..ventricular hypertrophy; myocardial necrosis (noninfarctional)

HE-09389 **FRANK, MARTIN J.**, Seton Hall Col. Med., Jersey City, N.J.
heart function; heart..ventricles; heart myocardium; arteries..coronary arteries; blood flow; heart diseases; exercise; oxygen consumption; radioisotopes..krypton 85; norepinephrine; isoproterenol; angiotensin

HE-09410 **AULD, PETER A.M.**, Col. Med., Cornell Univ., New York, N.Y.
congenital heart disease; infant human..newborn; pulmonary function; blood flow; peripheral vascular system; pneumonia; cyanosis; acid--base equilibrium; pulmonary airway resistance; pulmonary hypertension; children

CARDIOVASCULAR (CONTD)

HE-09416 FRIEDBERG, CHARLES K., Mt. Sinai Hosp., New York, N.Y.
heart function; exercise; digitalis; isoproterenol; heart block; electronic heart stimulators; nervous system.. sympathetic nervous system

HE-09428 JELLIFFE, ROGER W., Sch. Med., Univ. Southern California, Los Angeles, Cal.
digitalis; heart failure..congestive heart failure; toxicology; therapy evaluation; nervous system.. central nervous system

HE-09436 OVERBECK, HENRY W., Veterans Admin. Hosp., Oklahoma City, Okla.
endothelium; ions..cation; renal hypertension; renal arterial occlusions and stenosis; blood vessels vasomotion; ion exchange and transport; radioisotopes.. calcium 45; radioisotopes..potassium 42

HE-09448 HIFT, HELEN, Sch. Med., Univ. Wisconsin, Madison, Wis.
heart enlargement..ventricular hypertrophy; cell components..mitochondria; heart surgery; hypoxia; glycolysis; enzymes

HE-09452 WEBER, WILLIAM J., Univ. Michigan Med. Cr., Ann Arbor, Mich.
electrocardiography; computer analysis

HE-09454 BLAKE, JOSEPH T., Utah State Univ., Logan, Utah
bovine high mountain disease; heart..myocardium; hypoxia; electrolytes; blood cells..erythrocytes; veterinary medicine; diet

HE-09460 LOVEKIN, WILLIAM S., Sch. Med., Univ. New Mexico, Albuquerque, N.Mex.
heart failure..congestive heart failure; cardiovascular diseases; ethnic groups..American Indians; geographical sites..United States, Southwestern; diet; exercise; smoking; occupations; blood volume

HE-09465 GORDON, DAVID B., Univ. California Med. Cr., San Francisco, Cal.
hypertension (systemic); kidney; renal hypertension; adenosine

HE-09468 ALLEN, LANE H., Med. Col. Georgia, Augusta, Ga.
ascites; therapy evaluation; membrane permeability and transport; lymphatic collateral circulation; adrenal circulation

HE-09498 GOODKIND, M. JAY, Philadelphia Gen. Hosp., Philadelphia, Pa.
hyperthyroidism; heart contraction; heart..myocardium; catecholamines

HE-09499 CHINARD, FRANCIS P., New York Univ. Med. Cr., New York, N.Y.
membrane permeability; kidney function; carbon dioxide; lactates; aliphatic acids; capillaries; brain; lung; body water; electrolytes; dehydratases..carbonic anhydrase

HE-09500 TUCKER, CLYDE E., Sch. Med., Univ. Colorado, Denver, Colo.
arrhythmia (cardiac)..atrial fibrillation; heart function; electrical defibrillation; cardiotomy; heart conduction system..atrioventricular node; blood circulation dynamics; valvular heart diseases; heart rate; heart rhythm; exercise; electronic heart stimulators

HE-09506 MACEY, ROBERT I., Univ. California, Berkeley, Cal.
vasopressin; adenosine 3',5'--monophosphate

HE-09512 RICHARDSON, TRAVIS Q., Univ. Mississippi Med. Cr., Jackson, Miss.
cardiovascular system; renal hypertension; renal arterial occlusions and stenosis; heart function; sympathomimetic agents; body temperature; oxygen comsumption; gas tensions; intracranial pressure; blood vessels resistance; viscosity

HE-09563 GOODYER, ALLAN V., Sch. Med., Yale Univ., New Haven, Conn.
blood collateral circulation; heart..myocardium revascularization; heart enlargement..ventricular hypertrophy; heart failure; heartfunction; cardioactive agents

HE-09583 CLAUSS, ROY H., New York Univ. Med. Cr., New York, N.Y.
catecholamines; blood vessels vasomotion; electrostimulus; nervous system..sympathetic nerves; cold; endothelium; blood fluids

HE-09586 RUTTENBERG, HERBERT D., Sch. Med., Univ. California, Los Angeles, Cal.
heart..ventricles; heart function; heart block.. atrioventricular block; brain..hypothalamus; tachycardia; ganglion, nervous system..sympathetic ganglia; nervous system..cardiac nerves; sympatholytic agents; brain lesions; computer analysis

HE-09615 GILFILLAN, RUTHERFORD S., Children's Hosp., temperature; muscles..skeletal muscle; nervous system..peripheral nerves; nerves..innervation; nerves degeneration; arterial occlusions; limbs; primates..Macaca nemestrina

HE-09616 ANGELAKOS, EVANGELOS T., Sch. Med., Boston Univ., Boston, Mass.
heart function; nervous system..sympathetic nerves; nerves..denervation; heart..myocardium; electrophysiology; anesthesia; catecholamines; heart failure; stress

HE-09617 CHERNIACK, NEIL S., Col. Med., Univ. Illinois, Chicago, Ill.
respiration; mathematical models; cerebrospinal fluid; hydrogen--ion concentration; heart function; blood pressure

HE-09651 PARSONNET, VICTOR, Newark Beth Israel Hosp., Newark, N.J.
arteries..carotid sinus; pressoreceptors; blood pressure; homeostasis; electrostimulus; mechanical pressure; implants; hypertension (systemic)

HE-09656 GAMBLE, WALTER J., Children's Hosp. Med. Cr., Boston, Mass.
fiberscope, cardiac; diagnostic tests; blood circulation dynamics; heart function; heart intracardiac volume; oxygenation; indocyanine green; surgery..postoperative; blood vessels resistance; hyperbaric oxygenation; congenital heart disorders..septal defect; valvular heart disorders..aortic insufficiency; pulmonary arterial occlusions; instrumentation--methodology

HE-09659 SCARPELLI, EMILE M., Albert Einstein Col. Med., New York, N.Y.
lung..alveolus; surface properties; lipids; proteins; hyperoxia; chemical structure--biological activity; hyaline membrane disease, pulmonary; heart--lung bypass

HE-09711 GREENFIELD, JOSEPH C., Jr., Duke Univ. Med. Cr., Durham, N.C.
blood flow; blood pressure; arteries..aorta; heart function; muscle tension; thoracic surgery; heart intracardiac volume; sympathomimetic agents; heart block..atrioventricular block; hypertension (systemic); valvular heart diseases

HE-09720 GANTT, CLARENCE L., Col. Med., Univ. Illinois, Chicago, Ill.
kidney..renal tubular transport; kidney circulation; natriuresis; deoxycorticosterone; edema (generalized); renal arterial occlusions and stenosis

HE-09724 WILSON, THEODORE A., Col. Eng., Univ. Minnesota, Minneapolis, Minn.
biological models; mathematical models; thermodynamics; cardiovascular system; blood flow; oxygen transport; blood cells..erythrocytes

HE-09725 HAYWOOD, L. JULIAN, Los Angeles County Gen. Hosp., Los Angeles, Cal.
vectorcardiography; heart..atrium; heart enlargement; heart surgery; potentials; age

HE-09727 SCHEUER, JAMES, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
myocardial ischemia and hypoxia; electrocardiography; blood circulation dynamics; heart contraction; high energy compounds; electrolytes; perfusion; oxidative phosphorylation; antimetabolites; ouabain; antibiotics.. oligomycin; 2,4--dinitrophenol; membrane permeability and transport

HE-09730 HELMER, OSCAR M., Indiana Univ. Med. Cr., Indianapolis, Ind.
proteases..renin; hypertension (systemic); genetics; diagnostic tests; renal arterial occlusions and stenosis; pregnancy; children; exercise; natriuresis

HE-09747 HANENSON, IRWIN B., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
hypertension (systemic); natriuresis; kidney function; stress; vasoactive agents..vasopressors; kidney circulation

HE-09765 MUIRHEAD, E. ERIC, Univ. Tennessee, Memphis, Tenn.
renal hypertension; kidney transplantation; antihypertensive agents; proteases..renin; angiotensin

NB-00669 HEYMAN, ALBERT, Sch. Med., Duke Univ., Durham, N.C.
syncope; hypocapnea; Valsalva's maneuver; blood pressure; hyperoxia; oxygen; cerebrovascular disorders; blood flow; therapy evaluation

NB-01594 LYONS, HAROLD A., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
injury..head injury; respiration; hypoxia; hypercapnia; tracheotomy; artificial respiration; cerebrospinal fluid; acid-base equilibrium; carbon dioxide tension; hypothermia

NB-01657 ELLIS, SYDNER, Woman's Med. Col., Philadelphia, Pa.
acetylcholine; electrophysiology; epinephrine; glycogenolysis; heart; muscle..skeletal muscle; myocardial ischemia and hypoxia; neuromuscular transmission; sympatholytic agents

NB-03075 LOCKARD, ISABEL, Med. Col. South Carolina, Charleston, S.C.
nerves..neurons; capillary beds; brain; species; blood flow; brain ischemia and hypoxia; brain damage; cerebrovascular system

NB-03897 SALZANO, JOHN V., Sch. Med., Duke Univ., Durham, N.C.
respiration; nervous system..vagus nerve; oxygen tension; carbon dioxide tension; brain..respiratory center; lung; exercise

OH-00146 HYATT, ROBERT E., Mayo Clinic, Rochester, Minn.
pulmonary ventilation; trachea..intratracheal pressure; lung disease; chronic disease; bronchodilators; instrumentation--methodology

OH-00171 **DAMATO, ANTHONY N., USPHS Hosp., Staten Island, N.Y.**
blood circulation dynamics; heat; stress; oxygen transport; exercise; heart function; stroke volume; age; posture; industrial medicine

OH-00177 **THIEDE, WALTER H., Clinic Internal Medicine, Milwaukee, Wis.**
cold; pulmonary function; pulmonary emphysema; bronchitis; acclimatization; oxygen consumption; body temperature; exercise; aging

OH-00190 **STEIN, MYRON, Beth Israel Hosp., Boston, Mass.**
pulmonary function; aging; obesity; rest; exercise; infectious diseases; surgery; vascular disorders; thorax

OH-00205 **RENZETTI, ATTILIO, Jr., Veterans Admin. Hosp., Salt Lake City, Utah**
pulmonary function; occupational hazards; heavy metals; radiation effects; ionizing radiation; smoking; age; lung diseases

OH-00207 **BOUHUYS, AREND, John B. Pierce Fdn., New Haven, Conn.**
occupational hazards; pneumoconiosis; dust; air pollution; lung disease; industry; pulmonary ventilation; bronchoconstrictors; histamine

OH-00208 **WATSON, JOSEPH A., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.**
pulmonary function; respiratory system; adsorption; dust; irritants; mucous membrane; pneumoconiosis

OH-00209 **GAZIOGLU, KUDDUSI M., Univ. Rochester Med. Cr., Rochester, N.Y.**
pulmonary function; adsorption; dust; irritants; pneumoconiosis; respiratory diseases; lung..bronchi; lung..alveolus; radiolabeled manganese

CELL BIOLOGY

AI-00251 **NICKERSON, WALTER J., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.**
cell division; molecular structure; fungi; nutrition; dimorphism (biology)

AI-01065 **CONNER, ROBERT L., Grad. Sch., Bryn Mawr Col., Bryn Mawr, Pa.**
protozoa..Tetrahymena; steroids

AI-01568 **CANTINO, EDWARD C., Grad. Sch. Arts, Sci., Michigan State Univ., East Lansing, Michigan**
fungi..Blastocladiella; histogenesis; radiolabeled carbon; photochemistry; ornithine; glucose; growth; photobiology

AI-03644 **VAN WAGTENDONK, WILLIEM J., Sch. Med., Univ. Miami, Coral Gables, Fla.**
protozoa..Paramecium aurelia; axenic culture; nucleic acids; cell components..cytoplasm

AI-04915 **RAPER, KENNETH B., Col. Agr., Univ. Wisconsin, Madison, Wisconsin**
fungi..slime molds; cell aggregation; culture media; photostimulus; bacteria; nutrients; growth (microorganisms)

AI-04916 **AVERS, CHARLOTTE J., Grad. Sch., Douglass Col., Rutgers Univ., New Brunswick, N.J.**
cell components..mitochondria; fungi..Saccharomyces cerevisiae; genetics; respiratory enzymes; cytology

AI-04995 **EILER, JOHN J., Univ. California Med. Cr., San Francisco, Cal.**
protozoa..Tetrahymena pyriformis; cell division..mitosis; antimitotic agents; chemical structure--biological activity; nucleases..ribonucleases; soluble ribonucleic acid; tritium; growth, microorganisms

AI-05273 **GRULA, EDWARD A., Sch. Arts, Sci., Oklahoma State Univ., Stillwater, Okla.**
bacteria..Micrococcus lysodeikticus; cell components.. cell wall; fractionation; amino acid sequence; chemical structure--biological activity; enzymes; cell division; D--amino acid; serine; bacteria..Erwina; cell components ..cell membrane; antibiotics

AI-05375 **EZEKIEL, DAVID H., Albert Einstein Med. Cr., Philadelphia, Pa.**
thienylalanine; antibiotics..chloramphenicol; isoleucine; soluble ribonucleic acid; ribonucleic acid; heptulose; arabinose; ligases; feedback control

AI-05630 **KONETZKA, WALTER A., Sch. Arts, Sci., Indiana Univ., Bloomington, Ind.**
bacteria..Escherichia coli; viruses..bacteriophage T2; viruses..bacteriophage lambda; 2-phenylethanol; deoxyribonucleic acid; ribonucleic acid; proteins; enzymes; cell; cell components..ribosomes; enzymes inhibitors; reaction sites

AI-05711 **LARK, KARL G., Kansas State Univ., Manhattan, Kans.**
cell components..cell wall; ribonucleic acid; cell division; deoxyribonucleic acid; D-amino acid; growth inhibitors; bacteria

AI-06114 **DELAMATER, EDWARD D., New York Med. Col., New York, N.Y.**
bacteria; bile acids and salts; cell components.. nucleus; electron microscopy

AI-06448 **BURTON, PAUL R., Col. Liberal Arts, Sci., Univ. Kansas, Lawrence, Kans.**
electron microscopy; trematodes; skin; reproductive system; fertilization; gastrointestinal system; turbellaria..Planaria; blastema

AM-00494 **NITOWSKY, HAROLD M., Sinai Hosp., Baltimore, Maryland**
enzymes; cell culture; congenital abnormalities; dietary deficiency; cell; carbohydrates

AM-00706 **ROBINSON, ROBERT A., Johns Hopkins Hosp., Baltimore, Md.**
cartilage; bone..epiphyses; tetracycline; hyperparathyroidism; rickets; ossification; collagen; radiolabeled calcium

AM-01755 **EDDS, MAC V., Jr., Brown Univ., Providence, R.I.**
embryology; collagen; basement membrane

AM-01766 **DIMOND, MARIE T., Sister, Trinity Col., Washington, D.C.**
histogenesis; pituitary gland; thyroid function; iodinated compounds; thyroid hormones; antithyroid compounds; temperature

AM-02202 **KOLLROS, JERRY J., Grad. Sch., State Univ. Iowa, Iowa City, Iowa**
thyroxine analogs; metamorphosis; hypophysectomy; spinal cord; brain; cytology; histocompatibility; thyroid hormones; regeneration; limbs

AM-02232 **FARAH, ALFRED E., Res. Fdn. State Univ. New York, Syracuse, N.Y.**
chemical structure; dehydration; deoxyribonucleic acid; epithelium; indole tyrosine; kidney; nucleases..deoxyribonuclease; ribonucleic acid; seminal vesicles; vasopressin

AM-03184 **LENGEMANN, FREDERICK W., New York State Vet. Col., Cornell Univ., Ithaca, New York**
bone; radiolabeled calcium; radiolabeled strontium; calcium; strontium; thyroxine; parathyroid hormones; enzymes; calcification

AM-03647 **KNIGGE, KARL M., Sch. Med., Univ. Cincinnati, Cincinnati, Ohio**
adrenal cortex hormones; adrenal glands; cholesterol; cholesterol inhibitors; enzymes inhibitors; hydrocortisone; pituitary glands; radiolabeled carbon

AM-03665 **CASTOR, C. WILLIAM, Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
connective tissue; cell culture; mucopolysaccharides; cell differentiation; collagen

AM-03688 **BARRNETT, RUSSELL J., Sch. Med., Yale Univ., New Haven, Conn.**
cytology; hormones; cholinesterases..acetylcholinesterase; phosphatases; carboxylic ester hydrolases..carboxylic ester hydrolases

AM-03865 **EVANS, F. GAYNOR, Sch. Med., Univ. Michigan, Ann Arbor, Michigan**
age; bone; bone density; bone stress; elasticity; ethnic groups; morbidity; sex difference

AM-04105 **ROBBINS, WILLIAM C., Col. Med., Cornell Univ., N.Y.C.**
collagen; fibroblasts; immunofluorescence; serology; lupus erythematosus..systemic lupus erythematosus; rheumatoid factors; deoxyribonucleic acid; scleroderma; biologic false positive reaction; immunology antibodies

AM-04599 **COHEN, ALAN S., Boston Univ. Med. Cr., Boston, Mass.**
amyloidosis; casein; connective tissue diseases; skin diseases; steroids; synovial membranes

AM-04771 **BONDY, PHILIP K., Sch. Med., Yale Univ., New Haven, Conn.**
hydrocortisone; liver cells; cell components..microsomes; proteins; binding; cell components..mitochondria

AM-04976 **CARRIERE, RITA M., Sch. Med., State Univ. New York, Brooklyn, N.Y.**
radioautography; tritium; thymidine; cell components..cell nucleus; cell division..mitosis; genetics..polyploidy; cell

AM-05142 **GROSS, JEROME, Mass. Gen. Hosp., Boston, Mass.**
connective tissue; embryology; collagen; lathyrism; regeneration; metamorphosis; molecules..macromolecules; limbs

AM-05197 **DEWEY, MAYNARD M., Univ. Michigan, Ann Arbor, Mich.**
oxidoreductases..lactate dehydrogenases; oxidoreductases.. NADH2 diaphorase; embryology; fractionation; kidney

AM-05254 **EKHOLM, RAGNAR E.G., Faculty Med., Univ. Gothenburg, Gothenburg, Sweden**
cell components; electron microscopy; fractionation; thyroid gland

AM-05261 **CARPENTER, ESTER, Smith Col., Northampton, Mass.**
pituitary gland; thyroid gland; cytology; vitamin A; cell components..cilia

AM-05429 **HINSCH, GERTRUDE W., Mt. Union Col., Alliance, Ohio**
dehydrogenases..succinate dehydrogenase; esophagus; esterases; fats; nucleic acids; phosphomonoesterases.. acid phosphatase; phosphomonoesterases..alkaline phosphatase; proteins; trachea

AM-05431 **KARNOVSKY, MORRIS J., Sch. Med., Harvard Univ., Boston, Mass.**
cell components..mitochondria; electron microscopy; oxidases..cytochrome oxidases

AM-05433 **ROSS, MICHAEL H., Sch. Med., New York Univ., N.Y.C.**
ACTH; adrenal cortex hormones; adrenal glands; fetus; infants..animal..newborn; osmic acid

AM-05779 **MATOLTSY, ALEXANDER G., Med. Sch., Boston Univ., Boston, Mass.**
epithelium; keratinization; skin; skin diseases

AM-06098 **DUNN, MARVIN R., Woman's Med. Col., Philadelphia, Pa.**
ascorbic acid; collagen; fibroblasts; scurvy; tissue culture

AM-06233 **FELTS, WILLIAM J.L., Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn.**
age; bone density; chemical structure; chondrogenesis; chorioallantoic membrane; injury..wound healing; osteogenesis; rickets; skeleton; tensile strength; transplantation

(contd)

CELL BIOLOGY (CONTD)

AM-06290 **SWAN, ROY C., Med. Sch., Cornell Univ., New York, N.Y.**
muscle..skeletal muscle; electron microscopy; glycogen; insulin; glucose; calcium; ion exchange and transport; muscle contraction; cell components..cell nucleus; neuromuscular junction

AM-06438 **PACKER, LESTER, Univ. California, Berkeley, Cal.**
ascites tumors; cell components..lysosomes; cell components..mitochondrial membrane; cell components..protoplastic membrane; Crabtree effect; instrumentation; light scattering; membrane permeability; oxidative phosphorylation; spectrophotometry

AM-06556 **VAN LANCKER, JULIEN L., Sch. Med., Univ. Wisconsin, Madison, Wis.**
amino acid; binding; carbohydrases..β-glucuronidase; cell components..lysosomes; cell components..microsomes; cell differentiation; chloramphenicol; hydrolases; liver; phosphomonoesterases..acid phosphatase; radiation effects; regeneration; x-rays

AM-06557 **SHEA, STEPHEN M., Harvard Med. Sch., Boston, Mass.**
cell division..mitosis; liver cells; population dynamics (cell); regeneration; tritium

AM-06558 **TROTTER, NANCY L., Col. Phys., Surg., Columbia Univ., N.Y.C.**
carbon tetrachloride; cell components; choline; diet; diurnal variation; infants (animals); lipids; liver; regeneration

AM-06997 **VANABLE, JOSEPH W., Jr., Sch. Sci. Educ., Humanities, Purdue Univ., W. Lafayette, Ind.**
antimetabolites; cell differentiation; deoxyribonucleic acid; metamorphosis; organ culture; ribonucleic acid; skin; tegumental glands; thyroxine

AM-06998 **HAMPTON, JAMES C., Sch. Med., Northwestern Univ., Chicago, Ill.**
cell age; colchicine; diet; electron microscopy; epithelium; intestinal absorption; intestinal villi; pinocytosis; radiolabeled carbon; radiomimetic agents; tritium

AM-07162 **MACKENZIE, COSMO G., Sch. Med., Univ. Colorado, Denver, Colo.**
cell culture; lipids; lipotropic factors; triglycerides; fatty acids; enzymes; radiolabeled carbon; tritium oxide; glucose

AM-07323 **SEIJI, MAKOTO, Sch. Med., Juntendo Univ., Tokyo, Japan**
melanin; melanoma; melanocytes; phenol oxidases..tyrosinases; cell components..ribosomes; skin; ethnic groups..Japanese

AM-07578 **ITO, SUSUMU, Sch. Med., Harvard Univ., Boston, Mass.**
electron microscopy; stomach; seasonal variation; spermatozoa; intestines

AM-07731 **SJOSTRAND, FRITIOF S., Univ. California, Berkeley, Cal.**
cell components..granules; cell components..lysosomes; chemical structure--biological activity; fluorescence; fractionation; kidney..renal tubules; kidney cells

AM-07838 **HILL, ROLLA B., Jr., Sch. Med., Univ. Colorado, Denver, Colo.**
cell components..mitochondria; cortisone; electron transport; enzymes; fatty liver; lipids; oxidative phosphorylation; steroid hormones

AM-08222 **YATES, ROBERT D., Sch. Med., Univ. Texas, Galveston, Tex.**
adrenal medulla; catecholamines; cell components..cytoplasm; cell components..granules; cytology; embryology; nerves..neurons; reserpine; cell components..organelles

AM-08316 **COLLIER, JACK R., Rensselaer Polytechnic Inst., Troy, N.Y.**
deoxyribonucleic acid; embryology; mollusks; ovum; proteins; ribonucleic acid

AM-08363 **WEISSMAN, GERALD, New York Univ. Med. Cr., New York, N.Y.**
connective tissue diseases; cell components..lysosomes; cell components..mitochondria; blood cells..leukocytes; hydrolases; organ culture; vitamin A; ultraviolet rays; endotoxins; streptolysin S; lysolecithin; adrenal cortex hormones

AM-08368 **ODLAND, GEORGE F., Sch. Med., Univ. Washington, Seattle, Wash.**
skin; keratins; capillaries

AM-08727 **MOTTET, N. KARLE, University Hosp., Seattle, Wash.**
hydroxyproline; histogenesis; fibroblasts; epithelium; mucopolysaccharides; globulins; population dynamics..cell; cortisone

AM-08982 **LORAND, LASZLO, Col. Arts, Sci., Northwestern Univ., Evanston, Ill.**
muscles..sarcoplasmic reticulum; muscles..skeletal muscle; heart..myocardium; chemical structure--biological activity; muscle relaxing factor; enzymes

AM-09055 **RHODIN, JOHANNES A.G., New York Med. Col., New York, N.Y.**
electron microscopy; kidney..renal tubules; cytology

AM-09090 **FARQUHAR, MARILYN G., Univ. California Med. Cr., San Francisco, Cal.**
membrane permeability and transport; secretory mechanisms; skin; amnion; pituitary gland; ACTH; reaction sites; enzymes; phosphatases..adenosine triphosphatase; cell components..organelles; epididymis; prostate

AM-09284 **BARLAND, PETER, Albert Einstein Col. Med., New York, N.Y.**
connective tissue; proteins; polysaccharides; cell components..organelles; glucosamine; tritium; hyaluronic acid; fibroblasts

AM-09432 **NAPOLITANO, LEONARD M., Sch. Med., Univ. New Mexico, Albuquerque, N. Mex.**
adipose tissue; infant animals..newborn; cell components..mitochondria; histogenesis; viruses..Coxsackie viruses; cytology; hormones

AP-00092 **PACE, DONALD M., Univ. Nebraska, Lincoln, Nebr.**
air pollution; ozone; hydrocarbons; cell culture; cytotoxicity

CA-00510 **WILSON, J. WALTER: Brown Univ., Providence, R.I.**
electron microscopy; cell components..mitochondria; lipids; dietary deficiency; unsaturated fatty acids; liver; cell division..mitosis; liver damage; genetics..chromosomes; hepatoma; metastasis; connective tissue; liver cirrhosis; bile acids and salts

CA-00558 **SCOTT, JESSE F., Massachusetts Gen. Hosp., Boston, Mass.**
neoplasms; ribonucleic acid; cell differentiation; Ehrlich ascites carcinoma

CA-00807 **MARSLAND, DOUGLAS, Marine Biol. Lab., Woods Hole, Mass.**
cell division..mitosis; ovum; sols; hydrostatic pressure; gels; cell components..cytoplasm; deuterium oxide; antimitotic agents; disulfides; sulfhydryls; adenosine triphosphate; echinoderms; protozoa..amoeba

CA-01957 **MARSHALL, JOHN M., Jr., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
immunology..antigens; proteins; muscle..myofibrils; muscle contraction; molecular structure; muscle proteins; protozoa..Amoeba; cell components..cytoplasm; enzymes; hormones; pancreas; pituitary gland; pinocytosis

CA-02018 **KOPAC, MILAN J., Grad. Sch., Arts, Sci., New York Univ., N.Y.C.**
adenocarcinoma; carcinogenesis; cell components..cell nucleolus; cell components..cell nucleus; cell differentiation; kidney neoplasms; neoplastic cells; ovary neoplasms; plants; transplantation

CA-02080 **GOLDIE, HORACE, Meharry Med. Col., Nashville, Tenn.**
neoplasms; radioisotopes; metastasis; injuries..surgical wounds; embolism; heparin; transformation; histamine; antineoplastic agents; ascites tumors; thio--TEPA; neoplastic cells; acriflavine; cancer chemotherapy; radiation therapy

CA-02146 **BUCHER, NANCY L.R., Massachusetts Gen. Hosp., Boston, Mass.**
cell; growth; liver; radiolabeled; deoxyribonucleic acid; regeneration; ribonucleic acid

CA-02664 **LANDAU, JOSEPH V., Albany Med. Col., Union Univ., Albany, N.Y.**
cell components..cytoplasm; gels; hydrostatic pressure; neoplastic cells; sols; temperature

CA-02867 **AUB, JOSEPH C., Massachusetts Gen. Hosp., Boston, Mass.**
albumins; ascites tumors; cell adhesion; cell components..cell membrane; corticosterone; ferritin; membrane permeability; molecules..macromolecules; neoplastic cells; radiolabeled iodine

CA-03431 **MUHLBOCK, OTTO, Netherlands Cancer Inst., Amsterdam, Netherlands**
breast neoplasms; pituitary neoplasms; uterus neoplasms; carcinogenesis; pituitary gland transplantation; transplantation..homotransplantation; genetic strains; testosterone; prolactin; mammary tumor agents; neoplastic growth

CA-03458 **JONES, OLVER P., Sch. Med., State Univ. New York, Buffalo, N.Y.**
antineoplastic agents; leukemia; blood cells..erythroblasts; liver; fetus; cytology; bone marrow; hematopoiesis; myelosis, bone marrow; ribonucleoproteins; ferritin; pinocytosis; cell components..cell nucleolus; cell division..mitosis

CA-03461 **GIESE, ARTHUR C., Grad. Sch., Stanford Univ., Stanford, Cal.**
fungi..Ophiostoma; fungi..yeasts; mutations; photosensitivity; protozoa..Blepharisma; radiation sensitivity; ultraviolet rays

CA-03586 **MURRAY, MARGARET R., Col. Phys., Surg., Columbia Univ., N.Y.C.**
documentation systems; publications..literature survey; tissue culture

CA-03637 **TARTAR, VANCE, Grad. Sch., Univ. Washington, Seattle, Wash.**
protozoa..Stentor; cell components..cell nucleus transplantation; genetics..hybrids; embryonic induction; cell division

CA-03638 **GRILLO, HERMES C., Massachusetts Gen. Hosp., Boston, Mass.**
collagen; regeneration; injury..wound healing; radiolabeled

CA-03656 **JENSEN, WILLIAM A., Grad. Sch., Univ. California, Berkeley, Cal.**
proteins; nucleic acids; histogenesis; cell differentiation; plants

CA-03720 **MERCHANT, DONALD J., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
cell culture; cell types; cell differentiation; transformation

CA-03890 **BARRETT, JAMES M., Grad. Sch., Marquette Univ., Milwaukee, Wis.**
cell division..synchronous cell division; cell division.. plasmotomy; protozoa..Actinosphaerium; multinucleated cells; cell components..cell nucleus transplantation; cell components; immunology..antigens; protozoa..Tetrahymena

CA-04046 **WILSON, J. WALTER, Brown Univ., Providence, R.I.**
adrenal glands; cell differentiation; electron microscopy; fetus; hematopoietic tissues; hepatoma; histogenesis; liver; liver diseases; primates; radiation effects; regeneration; skin; spleen; sweat glands; thorotrast; x-rays

CA-04123 **SATO, GORDON H., Sch. Sci., Brandeis Univ., Waltham, Mass.**
cell differentiation; neoplasms; adrenal glands neoplasms; steroids; ACTH; immune sera; cell types

CA-04307 **LOUD, ALDEN V., Detroit Inst. Cancer Res., Detroit, Mich.**
cell components..endoplasmic reticulum; cell components.. microsomes; liver

CA-04483 **TOLMACH, L.J., Sch. Med., Washington Univ., St. Louis, Mo.**
nucleic acids; radiation effects; x--rays; neoplastic cells; cell culture; single cell analysis; HeLa cells; cell death; cell division; radiation sensitivity; cell division..synchronous cell division

CA-04516 **KIRKMAN, HADLEY, Sch. Med., Stanford Univ., Stanford, Cal.**
androgens; carcinogenesis; carcinoma; cell culture; epithelioma; estrogens; flank organ neoplasms; hair follicle neoplasms; hormones; kidney neoplasms; leiomyoma; neoplastic growth; transplantation; uterus neoplasms; vas deferens neoplasms

CA-04526 **SISKEN, JESSE E., City Hope Med. Cr., Duarte, Cal.**
tritium; cytidine; uridine; ribonucleic acid; cell components..cell nucleolus; cell components..cell nucleus; cell division..mitosis; deoxyribonucleic acid; temperature; antimetabolites; amino acid analogs

CA-04552 **INOUE, SHINYA, Sch. Med., Dartmouth Col., Hanover, N.H.**
deoxyribonucleic acid; molecular structure; microbeam radiation; ultraviolet rays; polarization optics; densitometry; spermatozoa; birefringence; instrumentation; cell division..mitosis; cinemicrography; cell division..mitotic spindle; genetics..chromosomes; radiation effects

CA-04659 **NOWELL, PETER C., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
blood cells..leukocytes; growth; cell differentiation; leukemia; genetics..chromosomes; blood cells.. lymphocytes

CA-04890 **HAGEN, GEORGE L., Inst. Cancer Res., Philadelphia, Pa.**
plants neoplasms; tobacco; genetics..hybrids; carcinogenesis; plants hormones; proteins; amino acid; tissue culture; single cell analysis; cell differentiation; nutrition; genetics..genome; auxins; cytology; histogenesis

CA-04924 **BERMAN, IRWIN, Sch. Med., Univ. Miami, Coral Gables, Fla.**
cell differentiation; diffusion chambers; hematopoiesis; hematopoietic tissues; implants

CA-05010 **FITZPATRICK, THOMAS B., Mass. General Hosp., Boston, Mass.**
cell components..microsomes; cell components.. mitochondria; cell components..ribosomes; leucine; melanocytes; phenol-oxidases..tyrosinases; radiolabeled carbon

CA-05201 **MINTZ, BEATRICE, Inst. Cancer Res., Philadelphia, Pa.**
histogenesis; mutations; ovum; skin

CA-05263 **BERENBLUM, ISAAC, Weizmann Inst. Sci., Rehovoth, Israel**
urethan; carcinogenesis; nucleic acids; radiolabeled; enzymes; leukemia; viruses..oncogenic viruses; infant animals..newborn; methylation

CA-05278 **HULTIN, TORE, Wenner-Gren Inst., Stockholm VA, Sweden**
amino acids; binding; carcinogenesis; carcinogens; cell components..microsomes; liver; proteins; tocopherol; transfer ribonucleic acid

CA-05281 **AUERBACH, ROBERT, Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.**
embryology; thymus; histogenesis; leukemia; genetic strains; thymus transplantation; lymphatic tissue

CA-05345 **LUSE, SARAH A., Sch. Med., Washington Univ., St. Louis, Mo.**
adrenal glands; adrenal glands neoplasms; amphenone B; brain neoplasms; carcinogenesis; DDD; methotrexate; methylcholanthrene; nervous system neoplasms; pregnancy..placenta

CA-05347 **TOIVONEN, SULO I., Univ. Helsinki, Helsinki, Finland**
embryonic induction; germ layers; micropore filters; ribonucleic acid; kidney..renal tubules; viruses..polyoma virus; immunity

CA-05398 **AUSTIN, MARY L., Grad. Sch., Indiana Univ., Bloomington, Ind.**
blood coagulation..thrombin; genetics..phenotypes; heparin; immunology..antigens; protozoa..Paramecium aurelia; temperature; transformation

CA-05401 **SZABO, GEORGE, Massachusetts Gen. Hosp., Boston, Mass.**
melanocytes; melanin; electron microscopy; albinism; genetic strains; cell components..granules; chromatophores; ommochrome; pigments; radioautography; phenol oxidases..tyrosinase; radiation effects; ultraviolet rays

CA-05426 **COBB, JEWEL P., Col. Lib. Arts, Sarah Lawrence Col., Bronxville, N.Y.**
cytology; estrogens; hypophysectomy; melanin; melanocytes; melanom S91; MSH; neoplastic growth; testosterone; thyroxine

CA-05431 **ARCOS, JOSEPH C., U.S. Public Health Service Hosp., New Orleans, La.**
homeostasis; oxidative phosphorylation; carcinogens; liver neoplasms; cell components..mitochondria; nucleotides; NADH2; oxidation; reaction sites; liver; thiamine

CA-05579 **BRUNST, VICTOR V., Health Research, Inc., Buffalo, N.Y.**
genetics..aneuploidy; carcinogenesis; transplantation; growth; cold; genetics..chromosomes; cytology

CA-05580 **PINKUS, HERMANN, Receiving Hosp., Detroit, Mich.**
melanocytes; melanin; pigmentation disorders; nevus, pigmented; cell components..tonofibrils; skin neoplasms; surface properties; neoplasms invasiveness; skin

CA-05667 **BASERGA, RENATO, Sch. Med., Northwestern Univ., Chicago, Ill.**
cell division..mitosis; deoxyribonucleic acid; epithelium; liver; neoplasms; proteins; radiolabeled carbon; regeneration; ribonucleic acid

CA-05743 **SUBTELNY, STEPHEN, Inst. Cancer Res., Philadelphia, Pa.**
transplantation..homotransplantation; cell components.. cell nucleus transplantation; genetics..polyploidy; ovum; embryology; embryonic induction; zygote cleavage; germ layers; cell differentiation

CA-05755 **KING, THOMAS J., Inst. Cancer Res., Philadelphia, Pa.**
carcinogenesis; transplantation; cell components..cell nucleus; cell types; cell differentiation; germ layers; Lucke renal adenocarcinoma

CA-05855 **PAUL, JOHN, Univ. Glasgow, Glasgow, Scotland**
cell differentiation; cell culture; enzymes; enzyme feedback; hormones; nucleic acids; enzyme substrate; cell components; histogenesis; proteins; messenger ribonucleic acid

CA-05936 **NEMER, MARTIN J., Inst. Cancer Res., Philadelphia, Pa.**
marine biology; nucleic acids; embryology; proteins; cell division; deoxyribonucleic acid; ribonucleic acid; enzymes

CA-06018 **PORTER, KEITH R., Grad. Sch., Harvard Univ., Cambridge, Mass.**
cell components..endoplasmic reticulum; cell division.. mitosis; glucose; glycogen; liver neoplasms; neoplastic cells; plants

CA-06019 **KINOSITA, RIOJUN, City Hope Med. Cr., Duarte, Cal.**
genetics..chromosomes; cell division..mitosis; cell components..cell nucleus; blood cells..reticulocytes; blood cells..erythrocytes

CA-06074 **FARBER, EMMANUEL, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
AAF; amino acid; bile acids and salts; carcinogenesis; carcinogens; cell components..microsomes; conjugates; diet; p-dimethylaminoazobenzene; ethionine; liver hyperplasia; liver neoplasms; nitrosodimethylamine; phosphomonoesterases..glucose-6-phosphatases; proteins; reductases..NADH2 cytochrome C reductase; reductases.. NADPH2 cytochrome C reductase; taurine

CA-06251 **PARTANEN, CARL R., Univ. Pittsburgh, Pittsburgh, Pa.**
ferns; plants neoplasms; radiation effects; spores; amino acids; radiolabeled carbon; carcinogenesis

CA-06346 **BRAUN, ARMIN C., Rockefeller Inst., New York, N.Y.**
genetics; carcinogenesis; plants neoplasms; transformation; enzymes; carcinoma; nucleic acids; proteins; cell division..mitosis; transforming principle; bioassay; epithelium

CA-06375 **WEISS, PAUL A., Rockefeller Inst., New York, N.Y.**
research programs; cell types; surface properties; histogenesis; growth inhibitors; cell adhesion; cell movement; regeneration; metastasis; nerves..neurons; nerve endings; neurohormones; growth; nerves..neurogenesis; molecular structure

CA-06415 **LEVAN, ALBERT J., Univ. Lund, Lund, Sweden**
genetics..chromosomes; host-neoplasm; host-virus; Rous sarcoma; transplantation

CA-06439 **AUCLAIR, W., McMicken Col. Arts, Sci., Univ. Cincinnati, Cincinnati, Ohio**
cell culture; kidney; kidney neoplasms; cell-free systems; nucleic acids; nucleotidases..5'-nucleotidase; phosphatases..adenosine triphosphatase; phosphomonoesterases..acid phosphatase; phosphomonoesterases.. alkaline phosphatase; phosphomonoesterases..neutral phosphatase; tritium; adenine; thymidine; uridine

CA-06548 **HIRSCH, HERBERT M., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
antineoplastic agents; antioxidants; breast neoplasms; carcinogenesis; cell; free radicals; mammary gland; mammary tumor agents; microorganisms; mutations; neoplastic cells; nutrients; oxidation..autooxidation

CA-06582 **DOLJANSKI, FANNY, Sch. Med., Hebrew Univ., Jerusalem, Israel**
age; blood cells..erythrocytes; blood cells.. reticulocytes; blood proteins; carcinogenesis; cell components..cell membrane; electrophoresis; enzymes; fasting; growth; hepatoma; liver cells; 3'-methyl-diethylaminoazobenzene; regeneration; surface properties

CA-06662 **COSTELLO, DONALD P., Grad. Sch., Univ. North Carolina, Chapel Hill, N.C.**
antimitotic agents; cell division..mitotic apparatus; podophyllin; podophyllotoxin; zygote cleavage

(contd)

CELL BIOLOGY (CONTD)

CA-06663 LIEBERMAN, IRVING, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
cell division..mitosis; kidney..renal cortex; liver; regeneration; deoxyribonucleic acid; surface properties; membrane permeability and transport; cell; ribonucleic acid; proteins

CA-06835 ENGELBERG, JOSEPH, Col. Med., Univ. Kentucky, Lexington, Ky.
cell division..synchronous cell division; cell culture; HeLa cells; temperature; instrumentation-methodology; mathematical models

CA-06895 KUCHLER, ROBERT J., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
amino acid; amino acid analogs; cell components.. cell membrane; deoxyribonucleic acid; L-cells; membrane permeability; proteins; radiolabeled carbon; ribonucleic acid; tissue culture

CA-06929 NACE, GEORGE W., Grad. Sch. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
carcinogenesis; Lucke renal adenocarcinoma; viruses.. oncogenic viruses; carbohydrases..lysozyme; genetics.. phenotypes; embryology; cell differentiation; tissue culture; immunology..antigens

CA-06955 LIPETZ, JACQUES, Manhattan Col., New York, N.Y.
carcinogenesis; plants neoplasms; temperature; bacteria.. Agrobacterium tumefaciens; cell division..mitosis; injury.. wound healing

CA-06956 BEARDSLEY, ROBERT E., Sch. Arts, Sci., Manhattan Col., N.Y.C.
attenuation, microorganisms; bacteria..Agrobacterium tumefaciens; carcinogenesis; crown gall; genetics.. episomes; injury..wounds; metabolites; m. obial culture; mutations; virulence, microorganisms

CA-06957 STONIER, TOM T., Sch. Arts, Sci., Manhattan Col., Bronx, N.Y.
auxins; cell differentiation; genetics..hybrids; gibberellin; growth factors; plant hormones; plants neoplasms; teratogenic agents; tobacco; transformation

CA-07015 DeOME, KENNETH B., Cancer Res. Genetics Lab., Univ. California, Berkeley, Cal.
laboratory facilities; electron microscopy; immunology; carcinogenesis; breast neoplasms; virus--like particles; viruses..oncogenic viruses; cell division..mitotic apparatus; genetics..chromosomes; neurosecretion; cell differentiation; phylogeny

CA-07086 GASIC, GABRIEL, Univ. Chile, Santiago, Chile
N-acetylneuraminic acid; bacteria..Vibrio cholerae; carbohydrases..neuraminidase; cell adhesion; chemical structure--biological activity; metastasis; mucopolysaccharides; neoplasms; neoplastic cells; surface properties

CA-07087 MUNRO, H.N., Sch. Med., The University, Glasgow, Scotland
cell components..cell nucleus; cell components.. endoplasmic reticulum; ferritin; hepatoma; liver cells; proteins; ribonucleic acid

CA-07382 WALLACH, DONALD F.H., Harvard Med. Sch., Boston, Mass.
cell components..cell membrane; surface properties; enzymes; phospholipids; neoplastic cells; neoplasms invasiveness; phagocytosis; pinocytosis; calcium; immunology..antigens

CA-07876 LIEBERMAN, IRVING, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
cell division; zinc; proteins; phosphates; ions; deoxyribonucleic acid; veins..portal vein

CA-08059 WARD, DARRELL N., Univ. Texas M.D. Anderson Hosp. and Tumor Inst., Houston, Tex.
conferences..international meetings; cell differentiation; cancer; biochemistry; publications.. monograph; travel

CA-08267 NELSON, ERLAND, Sch. Med., Univ. Maryland, Baltimore, Md.
nervous system neoplasms; cell types; neoplasms classification; nerves..demyelination; encephalitis periaxialis diffusa; viruses..SV40 virus; brain neoplasms

DE-00238 GERSTNER, ROBERT, New York Univ., N.Y.C.
tooth storage; dental structure..tooth germ; dental structure..pulp; dental structure..gingiva; growth; enzymes; sublingual gland; submandibular gland; embryology

DE-01206 MOSS, MELVIN L., Col. Phys., Surg., New York, N.Y.
bone..acellular bone; bone fractures; growth; osteogenesis; transplantation

DE-01382 WILBUR, KARL M., Duke Univ., Durham, N.C.
calcification; crystallography; temperature; marine biology; algae

DE-01894 KOCH, WILLIAM E., Sch. Med., Yale Univ., New Haven, Conn.
dental structure..tooth germ; embryo; dental structure.. odontoblasts; dental structure..ameloblasts; cell differentiation; radiolabeled; cytology

DE-01950 GOLAND, PHILIP, Col. Dent., Univ. Illinois, Chicago, Ill.
binding; dental caries inhibitors; dental fillings..sealing properties; dental materials..adhesives; dental structure.. dentin; dental structure..enamel; dental structure..teeth; polymers; resins; triazines

DE-01954 SMITH, DAVID J., Col. Phys., Surg., Columbia Univ., N.Y.C.
aminoacetonitrile; chondroitin sulfate; collagen; cortisone; fibrogenesis; growth hormones; hormones; hydroxyproline; hypophysectomy; lathyrism; proline; thyroxine

DE-02274 REITH, EDWARD J., New York Med. Col., New York, N.Y.
electron microscopy; dental structure..enamel; infant animals..newborn; fetus; dental structure..tooth germ; cytology; mouth

EF-00035 GOLDBERG, HERBERT S., Sch. Med., Univ. Missouri, Columbia, Mo.
plants hormones; antibiotics; bacteria..enterobacteria; toxicology; intestinal absorption; plants

FR-00228 MILLHOUSE, EDWARD W., Jr., Chicago Med. Sch., Chicago, Ill.
laboratory facilities; instrumentation--methodology; electron microscopy; thyroid gland; endocrine glands; radiolabeled iodine

GM-03784 DEMPSEY, EDWARD W., Sch. Med., Washington Univ., St. Louis, Mo.
cell; cyclic functions; histogenesis; electron microscopy; ovary; intestines

GM-03797 SCOTT, FLORENCE M., SISTER, Seton Hill Col., Greensburg, Pa.
histogenesis; cell differentiation; notochord; thalidomide; phylogeny; life cycle; tunicates

GM-03937 MOOG, FLORENCE, Grad. Sch., Washington Univ., St. Louis, Mo.
embryology; adrenal glands; intestines..small intestine; phosphatases; puromycin; actinomycin D

GM-04241 BLANDAU, RICHARD J., Univ. Washington, Seattle, Wash.
cell differentiation; FSH; LH; ovary..Graafian follicle; ovulation; tissue culture

GM-04359 PARPART, ARTHUR K., Marine Biol. Lab., Woods Hole, Mass.
animal facilities; ecology (animal); marine biology

GM-04413 CURTIS, ARTHUR C., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
amino acid; enzymes; psoriasis

GM-04578 GIESE, ARTHUR C., Grad. Sch., Stanford Univ., Stanford, Cal.
marine biology; reproduction

GM-04659 BROOKBANK, JOHN W., Grad. Sch., Univ. Florida, Gainesville, Fla.
embryology; fertilizin; fungi..Hansenula wingei; immune sera; immunology..antigens; phosphates; reproduction

GM-04706 BEAMS, H.W., Grad. Sch., State Univ. Iowa, Iowa City, Iowa
cytology; muscle; histogenesis; oogenesis; invertebrate hormones; nerves; secretory mechanisms; blood cells

GM-04738 RIS, HANS, Univ. Wisconsin, Madison, Wis.
genetics..chromosomes; deoxyribonucleic acid; histones; proteins; genetics..chromosome replication; phylogeny

GM-04774 MOMENT, GAIRDNER B., Goucher Col., Baltimore, Md.
growth; regeneration; neurohormones; nervous system; proteins

GM-04810 SEDAR, ALBERT W., Jefferson Med. Col., Philadelphia, Pa.
stomach..gastric juice; mucous membrane; cell types; cytology; bioassay; oxidoreductases..succinate dehydrogenase

GM-04919 MIRSKY, ALFRED E., Rockefeller Inst., New York, N.Y.
nucleoproteins; cell components..cell nucleus; deoxyribonucleic acid; adenosine triphosphate; sodium; ovum; freezing

GM-04958 GREENBERG, BERNARD, Roosevelt Univ., Chicago, Ill.
sex behavior; reproduction; imprinting; sensory deprivation; nervous system; gonadectomy; hormones

GM-05335 PRICE, DOROTHY, Grad. Sch., Univ. Chicago, Chicago, Ill.
embryology; aging; testis; androgens; pituitary gland; goiter; ovary

GM-05365 LaFEVRE, GEORGE, Jr., Harvard Univ., Cambridge, Mass.
bacteria; plants; proteins; radioisotopes; training

GM-05409 CATHER, JAMES, Univ. Michigan, Ann Arbor, Mich.
carbohydrases..lysozyme; cytology; dehydrogenases.. lactate dehydrogenases; embryology; fertilization; oogenesis

GM-05479 BEAMS, H.W., State Univ. Iowa, Iowa City, Iowa
electron microscopy; muscle..myofibrils; histogenesis; egg yolk; sense organs; blood cells..erythrocytes

GM-05483 ROSENBAUM, ROBERT M., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
cell division; embryology; hyperoxia; oxygen; proteolysis; sulfhydryls; tissue respiration; toxicology

GM-05611 LYMAN, CHARLES P., Harvard Med. Sch., Boston, Mass.
hibernation; autonomic agents; cell division..mitosis; tritium; thymidine; radiation effects; cell components.. cell nucleus; liver; thymus; growth; muscles; acetylcholine; drugs tolerance

GM-05619 DE LANNEY, LOUIS E., Wabash Col., Crawfordsville, Ind.
genetics; histocompatibility; immunology; neoplasms; transplantation

GM-05850 BRIGGS, ROBERT W., Grad. Sch., Indiana Univ., Bloomington, Ind.
research programs; training; embryology; cell components ..cell nucleus transplantation; genetics; cell components.. cytoplasm

GM-05867 KEMP, NORMAN E., Grad. Sch., Univ. Michigan, Ann Arbor, Mich.
cell components; cell division; cytology; electron microscopy; embryology; germ cells; inclusion bodies; osteogenesis; protozoa..Tetrahymena pyriformis; thyroid hormones

GM-06008 ROSA, CHARLES G., Jefferson Med. Col., Philadelphia, Pa.
uterus; oxidoreductases..succinate dehydrogenase; tetrazolium salts; metal chelates; oxidation; enzymes

GM-06025 MAZIA, DANIEL, Univ. California, Berkeley, Cal.
cell division..mitosis; histogenesis; drugs resistance; genetics..chromosomes; protozoa; nutrients; transformation; cell components..cytoplasm; embryology; cell components..cell nucleus; radiation effects; muscle contraction

GM-06208 SCHMIDT, ANTHONY J., Sch. Med., Univ. Illinois, Chicago, Ill.
injury..wound healing; regeneration; histogenesis; proteins; carbohydrates; glycoproteins; enzymes; lipids

GM-06211 MONROY, ALBERTO, Univ. Palermo, Palermo, Italy
embryology; cell components..mitochondria; fractionation; radiolabeled; proteins

GM-06214 ERRERA, MAURICE L., Univ. Brussels, Brussels, Belgium
x-rays; proteins; ribonucleic acid; cell components.. cell nucleus; ultraviolet rays; tritium; radiolabeled phosphorus; cytidine; radiolabeled carbon; lysine; HeLa cells; cell division..mitosis; purine analogs; pyrimidine analogs; hemoglobin; virus replication; 5-methyl-cytosine; cell components..ribosomes; cell differentiation; genetics; polysomes

GM-06300 HOFFMAN, JOSEPH G., Grad. Sch., State Univ. New York, Buffalo, N.Y.
cell division..mitosis; cell volume; computer analysis; mathematical models

GM-06334 ZWILLING, EDGAR, Sch. Sci., Brandeis Univ., Waltham, Mass.
cell differentiation; radiolabeled; limbs; germ layers; histogenesis

GM-06344 EPSTEIN, HERMAN T., Sch. Sci., Brandeis Univ., Waltham, Mass.
protozoa, Euglena; cell components..chloroplasts; fluorescence microscopy; electron microscopy; cell differentiation; photosynthesis; mutations; immunology; heat lability; streptomycin; radiation effects; ultraviolet rays

GM-06374 ROSS, CLEON W., Col. Arts, Sci., Colorado State Univ., Fort Collins, Colo.
reproduction; plants..leaves; proteins; antimetabolites; 5--fluorouracil; 6--azauracil; pigments; ribonucleic acid; p--fluorophenylalanine; photoperiodism; plants hormones

GM-06461 SCHERBAUM, OTTO H., Grad. Sch., Univ. California, Los Angeles, Cal.
nucleic acids; cell division; growth, microorganisms; protozoan culture; cytology; cell components..microsomes; protozoa..Tetrahymena pyriformis; ultracentrifugation; ribonucleic acids; amino acids; proteins

GM-06462 JAHN, THEODORE L., Grad. Sch., Univ. California, Los Angeles, Cal.
cell components..cell membrane; cell components.. protoplasmic movement; cell movement; electricity; protozoa..Allogromia; protozoa..Amoebida; protozoa.. Sarcodina; taxonomy

GM-06594 SCHLESINGER, ALLEN B., Creighton Univ., Omaha, Nebr.
tissue respiration; growth factors; deoxyribonucleic acid; histogenesis; cinematography

GM-06637 CARPENTER, FRANK M., Grad. Sch., Harvard Univ., Cambridge, Mass.
algae..Chlamydomonas; cell components..chloroplasts; cell components..cilia; electron microscopy; eye..retina; plants

GM-06729 FAWCETT, DON W., Harvard Med. Sch., Boston, Mass.
cell differentiation; spermatogenesis; glycogen; lipids; insulin; intestines..jejunum; spermatozoa; liver; endocrine glands; steroids

GM-06731 NEFF, ROBERT J., Grad. Sch., Vanderbilt Univ., Nashville, Tenn.
cell components..cell nucleus; cell differentiation; cell division; immunology; protozoa..Acanthamoeba; protozoa.. Amoeba; protozoan culture; protozoan cysts

GM-06753 MOSES, MONTROSE J., Sch. Med., Duke Univ., Durham, N.C.
cell components..cell nucleus; genetics..chromosomes; proteins; cell division..meiosis; deoxyribonucleic acid; spermatogenesis

GM-06774 GOLDSTEIN, LESTER, Univ. Pennsylvania, Philadelphia, Pa.
cell components..cell nucleus; cell components..cytoplasm; molecules..macromolecules; radiolabeled; cell components..cell nucleus transplantation; protozoa.. Amoeba; proteins; ribonucleic acid

GM-06836 COPELAND, D. EUGENE, Tulane Univ., New Orleans, La.
ion exchange and transport; water--electrolyte balance; osmotic pressure; swim bladder; pseudobranch gland; osmoreceptors; electron microscopy

GM-06879 CHILD, FRANK M., Grad. Sch., Univ. Chicago, Chicago, Ill.
cell components..cilia; enzymes; protozoa..Tetrahymena; cell components..flagella; cell movement

GM-06921 STOWE, BRUCE B., Sch. Arts, Sci., Yale Univ., New Haven, Conn.
growth hormones; lipids; phospholipids; growth; indoles; gens; auxins

GM-06934 SLAUTTERBACK, DAVID B., Sch. Med., Univ. Wisconsin, Madison, Wis.
cell components..endoplasmic reticulum; cell components.. Golgi apparatus; cell differentiation; cytology; muscle; muscle..sarcoplasmic reticulum; ovary; salt gland (nasal); thyroid gland

GM-06946 FANKHAUSER, GERHARD, Princeton Univ., Princeton, N.J.
transplantation immunology; embryology; life cycle; blood cells..leukocytes; cell culture; genetics..polyploidy; learning; regeneration; genetics..chromosomes

GM-06970 de la HABA, GABRIEL, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
chondrogenesis; chondroitin sulfate; glycogen; histogenesis; livers; muscle; muscle..myofibrils; phosphorylases.. glycogen phosphorylase; protein

GM-07022 McLAUGHLIN, JOHN J.A., Haskins Lab., N.Y.C.
algae; marine biology; axenic culture; symbiosis; phylogeny; ecology, animal; taxonomy; nutrients; protozoa.. dinoflagellates

GM-07078 TERNER, CHARLES, Boston Univ., Boston, Mass.
physiology; radiolabeled; spermatogenesis; spermatozoa

GM-07176 CLARK, SAM L., Jr., Sch. Med., Washington Univ., St. Louis, Mo.
cell differentiation; environment; lymphatic tissue; immunology..antibodies; lymph nodes; cell migration; tritium; leucine

GM-07209 BAKER, CLINTON L., Col. Liberal Arts, Southwestern Col., Memphis, Tenn.
phylogeny; ecology, animal; cytology; spermatozoa; reproductive system, male; urinary tract

GM-07286 WENT, HANS A., Washington State Univ., Pullman, Wash.
cell division..mitotic spindle; immunology..antigens; immunofluorescence; sulfhydryls; disulfides; zygote cleavage

GM-07289 WHALEY, W. GORDON, Grad. Sch., Univ. Texas, Austin, Texas
plants; electron microscopy; growth; cell components.. organelles; cell components..Golgi apparatus; carbohydrates; enzymes; nucleic acids

GM-07291 STRAUS, JACOB, Grad. Sch., Univ. Oregon, Eugene, Ore.
gymnosperms; tissue culture; auxins; carbohydrates; enzyme inhibitors..oxidase inhibitors; calcium; membrane permeability

GM-07293 ORNSTEIN, LEONARD, Mt. Sinai Hosp., N.Y.C.
embryonic induction; histogenesis; immunofluorescence; bone marrow; eye..lens

GM-07426 REBHUN, LIONEL I., Grad. Sch., Princeton Univ., Princeton, N.J.
cytology; electron microscopy; instrumentation; freeze-drying; immunology..antigen-antibody reactions

GM-07601 IWAMURA, TATSUICHI, Tokugawa Inst., Tokyo, Japan
algae..Chlorella; deoxyribonucleic acid; ribonucleic acid; nucleotides; cell components..chloroplasts

GM-07603 SAUNDERS, JOHN W., Jr., Grad. Sch., Marquette Univ., Milwaukee, Wis.
cell death; cell movement; enzymes; histogenesis

GM-07604 STINSON, BENJAMIN D., Col. Med., Cornell Univ., N.Y.C.
histocompatibility; limbs; radiation effects; regeneration; transplantation

GM-07606 HOPKINS, J.W., Harvard Univ., Cambridge, Mass.
enzymes; nucleotides; ribonucleic acid; deoxyribonucleic acid; proteins; cell components..cell nucleolus; HeLa cells

GM-07661 SHRIFT, ALEX, Kaiser Fdn. Res. Inst., Richmond, Cal.
algae..Chlorella vulgaris; selenomethionine; drugs resistance; methionine; sulfur; genetics; selenium

GM-07699 WILSON, JOHN E., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
brain; tissue; cytology; cell components..mitochondria; cell components..microsomes; cell age; cell components.. cell nucleus

GM-07733 MOSKOWITZ, MERWIN, Grad. Sch., Purdue Univ., Lafayette, Ind.
cell culture; culture media; blood..serum; growth factors

GM-07896 FINCK, HENRY, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
nucleic acids; proteins; muscle proteins; immunology.. antigens; muscles..myofibrils; immunology..antibodies; carbohydrases..amylases; pancreas; parotid gland; immunofluorescence; instrumentation--methodology

GM-07926 RAPPOPORT, DONALD A., Sch. Med., Univ. Texas, Galveston, Tex.
brain; cell components..cell nucleus; fetus; growth; growth hormones; nucleic acids; proteins

GM-08139 FEDER, NED, Harvard Univ., Cambridge, Mass.
instrumentation--methodology; lipids; enzymes

GM-08145 TORREY, JOHN G., Grad. Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
cell division..mitosis; plants..roots; seas; kinetin; histogenesis; cytology

GM-08147 CHIAKULAS, JOHN J., Chicago Med. Sch., Chicago, Ill.
cell division..mitosis; implants; cells; histogenesis; deoxyribonucleic acid; radioautography

(contd)

LISTING OF GENERAL RESEARCH AREAS

CELL BIOLOGY (CONTD)

GM-08326 MUKOKUR, BALAJI, Univ. Connecticut, Storrs, Conn.
algae; bacteria; cell components..cell nucleus; cell components..chromatin; cell division..mitosis; freeze-drying; fungi; phylogeny

GM-08327 YASUZUMI, GONPACHIRO, Nara Med. Univ., Kashihara, Japan
spermatogenesis; testis; nematodes..ascaris

GM-08363 STEVENSON, J. ROSS, Col. Arts, Sci., Kent State Univ., Kent, Ohio
skin; phenol oxidases..polyphenol oxidases; phenol oxidases..tyrosinase; pigments

GM-08380 ELLIS, RICHARD A., Brown Univ., Providence, R.I.
sweat glands; enzymes; electron microscopy; nervous system..autonomic nervous system; nerves..innervation; primates; salt gland, nasal; salt gland, rectal

GM-08480 NICKLAS, R. BRUCE, Yale Univ., New Haven, Conn.
genetics..chromosome movement; cell division.. mitotic spindle; cinematography; cell components; biomathematics

GM-08482 RYSER, HUGUES J.P., Sch. Med., Harvard Univ., Boston, Mass.
cell components..cell membrane; Ehrlich ascites carcinoma; membrane permeability; molecules..macromolecules; neoplastic cells; pinocytosis; proteins

GM-08496 BURGOS, MARIO H., Instituto de Histologia y Embriologia, Mendoza, Argentina
colloids; epithelium; testis; kidney..renal tubular transport; cell components..cell membrane; membrane permeability and transport; cell components..mitochondria

GM-08577 SILVER, WARREN S., Grad. Sch., Univ. Florida, Gainesville, Fla.
symbiosis; plants..roots; plants..leaves; bacteria; nitrogen; nitrogen fixation; centrosism; enzymes

GM-08580 SINGER, MARCUS, Sch. Med., Western Reserve Univ., Cleveland, Ohio
regeneration; electron microscopy; nerves; neurosecretion; antineoplastic agents; neoplasms; viruses.. oncogenic viruses

GM-08591 WOODARD, JOHN W., Univ. Chicago, Chicago, Ill.
nucleoproteins; genetics..chromosomes; transfer ribonucleic acid; cell components..organelles; cell division, mitosis; plants

GM-08626 KANE, ROBERT E., Dartmouth Med. Sch., Hanover, N.H.
cell division..mitotic apparatus

GM-08691 ALLEN, ROBERT D., Princeton Univ., Princeton, N.J.
birefringence; cell components..protoplasmic movement; cell movement; plants; refractometry

GM-08719 GROBSTEIN, CLIFFORD, Grad. Sch., Stanford Univ., Stanford, Cal.
cell differentiation; cytology; embryonic induction; membranes; surface properties

GM-08776 ANDERSON, EVERETT, Sch. Arts, Sci., Univ. Massachusetts, Amherst, Mass.
cytology; cell components

GM-08777 WILLIAMS, NORMAN E., Grad. Col., State Univ. Iowa, Iowa City, Iowa
protozoa..ciliata; cell division; cell differentiation; cyclic functions

GM-08827 ROSEN, WALTER G., Grad. Sch., Marquette Univ., Milwaukee, Wis.
cell components..cell wall; cell components..cytoplasm; growth; pollen

GM-08900 MALAMED, SASHA, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
cell components..mitochondrial membrane; membrane permeability

GM-09156 TEDESCHI, HENRY, Sch. Med., Univ. Illinois, Chicago, Ill.
membrane permeability and transport; cell components.. cell nucleus; cell components..mitochondria; cell components..microsomes

GM-09195 ORNSTEIN, LEONARD, Mt. Sinai Hosp., New York, N.Y.
thioacetamide; liver; cell components..cell nucleus; cell components..cytoplasm; ribonucleic acid; amino acids; proteins; starvation

GM-09224 CRANE, ROBERT K., Chicago Med. Sch., Chicago, Ill.
phosphotransferases..ATP : D--hexose 6--phosphotransferase; heart..myocardium; enzymes; intestines..small intestine; brush border membranes; intestinal villi

GM-09229 KESSEL, RICHARD G., Grad. Sch., State Univ. Iowa, Iowa City, Iowa
neoplasms; ovum; membrane permeability and transport; proteins; gills; water--electrolyte balance; oogenesis; cell differentiation

GM-09319 KIHLMAN, BENGT A., Inst. Physiological Botany, Uppsala, Sweden
genetics..chromosomes; mutations; mutagens; radiation effects; oxidative phosphorylation; plants; cell components..cell nucleus; deoxyribonucleic acid

GM-09609 STEWARD, F.C., Col. Agr., Cornell Univ., Ithaca, N.Y.
cell; growth; nutrition; plants; nitrogen; proteins; environment; histogenesis; tissue respiration

GM-09654 BLOCH, DAVID P., Univ. Texas, Austin, Tex.
embryology; histones; protamines; proteins; spermatogenesis

GM-09732 SATIR, PETER, Univ. Chicago, Chicago, Ill.
cell components..ciliary movement; cell differentiation; phylogeny; protozoa

GM-09747 KAYE, JEROME S., Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.
spermatogenesis; cell components..cell nucleus; genetics.. chromosomes; cell division..meiosis; nucleoproteins

GM-09748 GREULICH, RICHARD C., Sch. Med., Univ. California, Los Angeles, Cal.
uterus; pregnancy..placenta; cytology; cell types; maternal-fetal; radioautography

GM-09834 LYMAN, HARVARD, Brooklyn Col., Brooklyn, N.Y.
cell components..chloroplasts; enzymes; heat; nucleic acids; photochemistry; protozoa..Euglena

GM-09836 PIAVIS, GEORGE W., Sch. Dent., Univ. Maryland, Baltimore, Md.
regeneration

GM-09878 HUMPHRIES, ASA A., Jr., Grad. Sch. Arts, Sci., Emory Univ., Atlanta, Ga.
adenosine triphosphate; cell division..meiosis; chorionic gonadotropins; fertilization; FSH; LH; mucopolysaccharides; oogenesis; ovulation; phosphatases..adenosine triphosphatase; sulfhydryls; zygote cleavage

GM-09936 CLONEY, RICHARD A., Sch. Arts, Sci., Univ. Washington, Seattle, Wash.
metamorphosis; hormones; muscular dystrophy; skin; notochord; embryology; cell components..cytoplasm

GM-09959 MACLEAN, ELIZABETH C., Brandeis Univ., Waltham, Mass.
electron microscopy; molecules..macromolecules; proteins; nucleic acids; deoxyribonucleic acid; cell components..ribosomes; albumins..serum albumins

GM-09960 LOCKE, MICHAEL, Western Reserve Univ., Cleveland, Ohio
skin; injury..wound healing; histogenesis; adipose tissue; membrane

GM-09962 HAZELWOOD, DONALD H., Sch. Arts, Sci., Univ. Missouri, Columbia, Mo.
age; photoperiodism; temperature; water flow; growth; ecology, animal

GM-10001 LIEDKE, KATHE B., Col. Lib. Arts, Fairleigh Dickinson Univ., Teaneck, New Jersey
eye lens; embryonic induction; tritium; radioautography; deoxyribonucleic acid; ribonucleic acid

GM-10103 ZWILLING, EDGAR, Sch. Sci., Brandeis Univ., Waltham, Mass.
cell aggregation; cell components..chloroplasts; cell differentiation; electron microscopy; embryology; laboratory facilities; molecules..macromolecules

GM-10108 GILLETTE, RONALD W., Sch. Med., Cornell Univ., N.Y.C.
antimitotic agents; carcinogens; dehydrogenases; organ culture; phosphatases; skin; steroids; tissue preservation; transplantation..autotransplantation

GM-10138 GREGG, JAMES H., Grad. Sch., Univ. Florida, Gainesville, Fla.
fungi..Dictyostelium discoideum; fungi..Dictyostelium purpureum; fungi..slime molds plasmodium; deoxyribonucleic acid; ribonucleic acid; cell differentiation; cell migration; tritium; proteins

GM-10142 MERRIAM, ROBERT W., Col. Arts, Sci., State Univ. New York, Stony Brook, N.Y.
cell components..cell nucleus; cell components..cytoplasm; proteins; metabolites; radiolabeled; diffusion; binding

GM-10182 ITO, SUSUMER, Sch. Med., Harvard Univ., Boston, Mass.
electron microscopy; liver; kidney; gastrointestinal system; testis; cell components..cell membrane; cell death; pancreas; Rickettsiales..Rickettsia; cell components..Golgi apparatus

GM-10188 BROWN, ROBERT, Sch. Botany, Edinburgh Univ., Edinburgh, Scotland
growth; plants; cell division; cell differentiation; cell components..organelles; nucleic acids; radiolabeled phosphorus; growth factors; tissue respiration; cell aggregation; transplantation

GM-10232 GREEN, JAMES W., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
cell components..cell membrane; injuries; cell culture; membrane permeability and transport; dyes; molecules; radiolabeled; enzymes; phase microscopy; electron microscopy

GM-10233 CASE, NORMAN M., Sch. Med., Loma Linda Univ., Loma Linda, Cal.
carbon dioxide tension; carbon monoxide; culture media; cyanides; electron microscopy; oxygen tension; temperature; trauma

GM-10251 VATTER, ALBERT E., Univ. Colorado Med. Ctr., Denver, Colo.
cell components..intracellular membranes; lipases; lipids

GM-10252 BROWN, CHARLES A., Grad. Sch., Howard Univ., Washington, D.C.
electron microscopy; protozoa..Peritrichida; protozoan cysts; species

GM-10292 EAKIN, RICHARD M., Grad. Sch., Univ. California, Berkeley, Cal.
cytology; photoreceptors; brain..pineal body; dark adaptation; cell differentiation; phylogeny; embryonic induction

GM-10293 RIECK, ALVIN F., Sch. Med., Marquette Univ., Milwaukee, Wis.
deoxyribonucleic acid; ovum; photosensitivity; radiation effects; skin; spermatozoa; tritium; ultraviolet rays; zygote cleavage

GM-10295 **REYNOLDS, WYNETKA A., Ball State Teachers Col., Muncie, Ind.**
metamorphosis; cold; thyroxine; thyroid gland; pituitary gland

GM-10324 **BOGORAD, LAWRENCE, Univ. Chicago, Chicago, Ill.**
plants..leaves; cell components..chloroplasts; photosynthesis; nutrients; ribonucleic acid; electron microscopy; phycocyanin; chlorophyll; iron

GM-10364 **NUNNALLY, DAVID A., Grad. Sch., Vanderbilt Univ., Nashville, Tenn.**
cell differentiation; dehydrogenases..succinate dehydrogenase; hormones; hyperoxia; intestines..duodenum

GM-10422 **SIEGEL, BENJAMIN M., Cornell Univ., Ithaca, N.Y.**
cell; electron microscopy; instrumentation-methodology; molecules..macromolecules; nerves..innervation; radioautography; regeneration; toxins

GM-10484 **HITZEMAN, SISTER JEAN W., Siena Heights Col., Adrian, Mich.**
oxidoreductases..3β--hydroxysteroid dehydrogenases; androgens; testis; fetus; embryology; respiratory enzymes; glycolysis; hexose monophosphate pathway; NADP linked enzymes; NAD linked enzymes

GM-10487 **HONDA, SHIGERU I., Col. Agr., Univ. California, Los Angeles, Cal.**
cell components..organelles; cell components..chloroplasts; cell components..mitochondria; photosynthesis; phosphorylation; tissue respiration; cytochrome C555; plants; membrane permeability

GM-10497 **HAMILTON, HOWARD L., Col. Arts, Sci., Univ. Virginia, Charlottesville, Va.**
feathers; embryology; antimetabolites; cell components.. mitochondria; histogenesis; albumins; phosphomonoesterases..alkaline phosphatase; ribonucleoproteins; hematopoiesis..erythropoiesis; reaction sites

GM-10532 **MAZIA, DANIEL, Univ. California, Berkeley, Calif.**
cell components..cell nucleus; cell division..mitosis; deoxyribonucleic acid; genetics..chromosomes; growth factors; nucleases; nucleoside triphosphates; ovum; polymerases..deoxyribonucleic acid polymerase

GM-10599 **TORREY, JOHN G., Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.**
plants..leaves; plants..roots; anthocyanins; photoperiodism; photochemistry; gibberellin; auxins; kinetin; growth; clover; legumes

GM-10641 **HAYASHI, YUJIRO, Sch. Sci., Nagoya Univ., Nagoya, Japan**
embryology; myogenesis; muscle proteins; antimetabolites; transplantation; keratinization; germ layers; embryonic induction

GM-10642 **JOSSE, JOHN W., Sch. Med., Washington Univ., St. Louis, Mo.**
nucleic acids; cell differentiation; embryology; radiolabeled phosphorus; radiolabeled carbon; nucleoside 5'--phosphates; pyrimidine nucleosides; nucleases; phosphatases..pyrophosphatase; bacteria..Escherichia coli

GM-10673 **CLEGG, JAMES S., Grad. Sch., Univ. Miami, Coral Gables, Fla.**
dormancy (biology); aging; oxygen tension; nutrients; membrane permeability and transport; proteins; dehydration (body fluids); ecology, animal; egg shell; glycerin; ovulation

GM-10730 **KARAKASHIAN, STEPHEN J., Reed Col., Portland, Ore.**
symbiosis; protozoa..Paramecium bursaria; algae.. Chlorella; protozoan culture; nutrients; genetics; radiolabeled carbon; mutations; metabolites; ribonucleic acid

GM-10731 **POLLARD, CLIFFORD J., Michigan State Univ., East Lansing, Mich.**
cell components..chloroplasts; proteins; nucleic acids; radiolabeled carbon; enzymes; instrumentation-methodology

GM-10757 **MORRILL, GENE A., Albert Einstein Col. Med., New York, N.Y.**
embryology; membrane permeability and transport; ion exchange and transport; potentials..membrane potentials; ovulation; sodium; potassium; phosphates; calcium

GM-10949 **SOROKIN, SERGEI P., Sch. Med., Harvard Univ., Boston, Mass.**
cell components..centrioles; cell components..mitochondria; cell components..cilia; cell components.. Gogli apparatus; cell differentiation; cytology; organ culture; tissue culture; histogenesis

GM-11009 **GERSH, ISIDORE, Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.**
cell components..mitochondria; cell components.. protoplasm; cell division..mitosis; collagen; connective tissue; cytochemistry; genetics..chromosomes; ground substance; instrumentation-methodology; muscle; staining; vanors

GM-11012 **FRANKEL, JOSEPH, Col. Liberal Arts, State Univ. Iowa, Iowa City, Iowa**
protozoa..Tetrahymena pyriformis; cell differentiation;

GM-11083 **THOMPSON, GUY A., Jr., Sch. Med., Univ. Washington, Seattle, Wash.**
lipids; cell components..cell membrane; blood cells.. erythrocytes; chemical structure--biological activity; bone marrow; radiolabeled; α-glyceryl ethers

GM-11093 **GREEN, JAMES W., Col. Arts, Sci., Rutgers-The State Univ., New Brunswick, N.J.**
blood cells, erythrocytes; cell components..cell membrane; chemical structure--biological activity; sodium; potassium; adenosine triphosphate; phosphatases.. adenosine triphosphatase; lipids; proteins; radiolabeled phosphorus; enzymes inhibitors; reaction sites; proteases; tissues

GM-11100 **BOUCK, GEORGE B., Yale Univ., New Haven, Conn.**
plants..roots; cell components..cell nucleus; cell components..organelles; cell components..endoplasmic reticulum; cell components..Golgi apparatus; cell components..cell wall; cell division; growth; auxins; cytology; algae..Acetabularia

GM-11102 **STONE, DAVID, Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.**
steroid hormones; genetics..chromosomes; HeLa cells; cell types; cell culture; growth factors; cell differentiation; sex hormones; sex difference

GM-11126 **OUTKA, DARRYLL E., Long Beach State Col., Long Beach, Cal.**
protozoa..Tetramitus; cell differentiation; life cycle; cell components..flagella; culture media; axenic culture; metabolites

GM-11156 **IVERSON, RAY M., Col. Arts, Sci., Univ. Miami, Coral Gables, Fla.**
cell differentiation; cell division..mitotic apparatus; ribonucleic acid; deoxyribonucleic acid; chemical structure; cell components..cytoplasm; cell components.. cell nucleus; genetics..hybrids

GM-11214 **WATSON, STANLEY W., Woods Hole Oceanographic Inst., Woods Hole, Mass.**
research programs; marine biology; bacteria..Nitrosocystis oceanus; bacteria..Nitrosomonas europaea; bacteria.. Nitrobacter agilis; nitrification; oxidation; ammonia; nitrites; cell--free systems; cytology; enzymes; ecology, microorganisms; taxonomy; species

GM-11218 **BURNET, ALLISON L., Col. Arts, Sci., Western Reserve Univ., Cleveland, Ohio**
cell differentiation; germ cells; cell types; regeneration; nitrogen mustards; growth inhibitors; cell division..mitosis; growth factors; chemical structure; tritium; mutations; tubellaria..planaria; kidney; liver

GM-11226 **LENHOFF, HOWARD M., Grad. Sch., Univ. Miami, Coral Gables, Fla.**
glutathione; coelenterates; reflex; chemoreceptors; feeding; hormones

GM-11252 **TORCH, REUBEN, Col. Arts, Sci., Univ. Vermont, Burlington, Vt.**
protozoa..Tracheloraphis; cell components..cytoplasm; deoxyribonucleic acid; ribonucleic acid; tritium; regeneration; genetics..genetic coding; cytology; antibiotics..actinomycin D

GM-11258 **PEAKALL, DAVID B., Upstate Med. Ctr., State Univ. New York, Syracuse, N.Y.**
amino acids; atropine; choline esterases.. acetylcholinesterase; drugs; physostigmine; proteins; psilocybin; radiolabeled carbon; spinning glands

GM-11343 **KAYE, GORDON I., Col. Phys., Surg., N.Y.C.**
electron microscopy; membrane permeability; cell differentiation; eye..cornea; endothelium permeability; colloids; thyroid gland; intestinal absorption; infants, animals..newborn; metamorphosis; collagen; tritium; radiolabeled iodine; enzymes; age

GM-11380 **REVEL, JEAN P., Harvard Med. Sch., Boston, Mass.**
N-acetylglucosamine; cell components..Golgi apparatus; choline; mucopolysaccharides; phospholipids; tritium

GM-11427 **BULLIVANT, STANLEY, Massachusetts Gen. Hosp., Boston, Mass.**
genetics..chromosomes; cell division..mitosis; deoxyribonucleic acid; cell components..chromatin; electron microscopy; molecules..macromolecules; staining; freeze--drying

GM-11461 **HINEGARDNER, RALPH T., Sch. Sci., Columbia Univ., New York, N.Y.**
aminopterin; antibiotics; antimetabolites; antimitotic agents; cell components; cell types; colchicine; 2,4-dinitrophenol; estradiol; p-fluorophenylalanine; quinones

GM-11480 **VINCENT, WALTER S., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
cell components..cell nucleolus; cell components.. cytoplasm; zygote cleavage; oogenesis; embryology; cell division..mitosis; immunology..antibodies; immunology..antigens; cell components..ribosomes; proteins; chemical structure

GM-11555 **CROWELL, SEARS, Grad. Sch., Indiana Univ., Bloomington, Ind.**
histogenesis; cell differentiation; cell division..mitosis; cell culture; growth, microorganisms; cell aggregation; surface properties

GM-11558 **ROBBINS, ELLIOTT, Albert Einstein Col. Med., N.Y.C.**
adenosine triphosphates; calcium; cell components..cell membrane; cell division..mitosis; chemical structure--biological activity; chlorides; genetics..chromosomes; HeLa cells; ion exchange; membrane permeability; potassium; sodium; synchronous cell division

GM-11564 **FLEXER, ABRAHAM S., Faculty Arts, Sci., Harvard Univ., Cambridge, Mass.**
genetics..genes; mutations; cell components.. heterokaryons; sex difference; genetic mapping; fungi.. Polyporus palustrus; genetics..sex factor; fungi.. Basidiomycetes; reproductive system; parasexuality

GM-11636 **WILSON, WILLIAM B., Grad. Sch., Florida State Univ., Tallahassee, Fla.**
algae..diatoms; nutrients; axenic culture; culture media; growth, microorganisms

(contd)

CELL BIOLOGY (CONTD)

GM-11668 KAUFMANN, BERWIND N., Hahnemann Med. Col., Philadelphia, Pa.
blood cells..leukocytes; cell culture; cell division.. mitosis; culture media; deoxyribonucleic acid; genetics..chromosomes; growth factors; Mexican jumping bean; phytohemagglutinin; tritium

GM-11754 BARNARD, ERIC A., Sch. Pharm., State Univ. New York, Buffalo, N.Y.
radioautography; tritium; cell components; enzymes; enzyme inhibitors; reaction sites; proteins; immunology.. antigen--antibody reactions; esterases; choline esterases

GM-11759 SCHREIL, WERNER H., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
electron microscopy; instrumentation-methodology; deoxyribonucleic acid; bacteria..Escherichia coli; viruses.. coliphage; molecular shape; virus replication; molecular rearrangement; conjugation

GM-11825 STOECKENIUS, WALTHER, The Rockefeller Inst., N.Y.C.
basement membrane; cell components..cell membrane; cell components..ribosomes; electron microscopy; laboratory facilities; membrane permeability; molecules.. macromolecules; surface properties

GM-11858 HSU, W. SIANG, Col. Arts, Sci., Univ. Washington, Seattle, Wash.
cell components..Golgi apparatus; cell components.. mitochondria; cell components..nuclear membrane; cell components..ribosomes; egg yolk; oogenesis

GM-11873 WOLFE, STEPHEN L., Col. Letters, Sci., Univ. California, Davis, Cal.
cell components..cell nucleus; cell division..meiosis; genetics..chromosomes; genetics..crossing over; instrumentation-methodology; spermatocytes

GM-11949 GUTTES, EDMUND W., Sch. Arts, Sci., Loyola Univ., Chicago, Ill.
fungi..Physarum polycephalum; ribonucleoproteins; cell components..ribosomes; cell division..mitosis

GM-11953 ROMANOFF, ALEXIS L., Col. Agr., Cornell Univ., Ithaca, N.Y.
embryology; publications..literature survey

GM-12047 BARR, H. JAY, Sch. Med., Western Reserve Univ., Cleveland, Ohio
chimeras; regeneration; limb transplantation; cell differentiation; skin; blastema; genetics; cell components..cell nucleolus; ribonucleic acid; mutations

GM-12123 STRAUS, WERNER, Chicago Med. Sch., Chicago, Ill.
cell components..lysosomes; cell components..cell membrane; staining; membrane permeability and transport; injury; laboratory facilities; drugs; peroxidases; hormones

GM-12124 GIBBONS, IAN R., Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
cell components..cilia; cell components..ciliary movement; protozoa..Tetrahymena; chemical structure

GM-12125 GREENAWALT, JOHN W., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
cell components..mitochondrial membrane; molecular structure; chemical structure--biological activity; functional groups; tissue respiration; ion transport; membrane permeability and transport; fungi.. Neurospora crassa; enzymes; genetic strains; cytochromes

GM-12127 HESS, PAUL W., Lebanon Valley Col., Annville, Pa.
hexoses; reproduction; fish; nutrition; maternal-fetal; body fluids

GM-12179 COOK, JAMES R., Col. Arts, Sci., Univ. Maine, Orono, Me.
protozoa..Euglena gracilis; cell division..synchronous cell division; axenic culture; deoxyribonucleic acid; sulfur compounds; chemical structure--biological activity; photochemistry; radiation effects; cell components..chloroplasts; acetates; respiratory enzymes

GM-12180 HOLTER, HEINZ, Carlsberg Lab., Copenhagen, Valby, Denmark
protozoa..amoeba; fungi..yeasts; molecules..macromolecules; proteins; pinocytosis; reaction sites; cell components; nitrogen

GM-12181 PETERSEN, ARNOLD J., St. Olaf Col., Northfield, Minn.
deoxyribonucleic acid replication; genetics..sex chromosomes; blood cells..leukocytes; cell division.. synchronous cell division; sex difference; aminopterin; tritium

GM-12182 ROBBINS, ELLIOTT, Albert Einstein Col. Med., Bronx, N.Y.
HeLa cells; single cell analysis; instrumentation--methodology; genetics; cell division..mitosis; cell division..mitotic apparatus; virus replication; host--virus; antimitotic agents; water--electrolyte balance; temperature; cell types

GM-12183 BIRKY, CARL W., Jr., Univ. California, Berkeley, Cal.
rotifers; genetic strains; genetics; cell differentiation; reproduction; fertility; proteins; taxonomy; oogenesis

GM-12217 GLADE, RICHARD W., Col. Arts, Sci., Univ. Vermont, Burlington, Vt.
limbs; regeneration; blastema; skin transplantation; chimeras; genetics..polyploidy; genetics..diploidy; cell differentiation; connective tissue; cartilage; histogenesis

GM-12258 MURASHIGE, TOSHIO, Univ. California, Riverside, Cal.
histogenesis; growth; tobacco; culture media; indole acetic acid; kinetin; gibberellin; growth inhibitors

GM-12312 NIMITZ, M. AQUINAS, SISTER, Dominican Col., San Rafael, Cal.
reproduction; lipids; carbohydrates; gametogenesis; crustaceans; echinoderms; marine biology; cyclic functions; starvation

GM-12313 ROBERTS, LORIN W., Col. Letters, Sci., Univ. Idaho, Moscow, Idaho
plants..roots; injury..wounds; instrumentation--methodology; oxidoreductases..succinate dehydrogenase; oxidoreductases..NADH2 diaphorase; tissue culture; electron microscopy

GM-12340 FLAUMENHAFT, EUGENE, Buchtel Col. Liberal Arts, University Akron, Akron, Ohio
lipids; fatty acids; oogenesis; ovary; cell components ..cell nucleus; cell components..cell membrane

GM-12346 NASATIR, MAIMON, Brown Univ., Providence, R.I.
amino acids; cell division..mitosis; plants; genetics.. chromosomes; proteins; nucleases, deoxyribonuclease; deoxyribonucleic acid; molecular structure; algae

GM-12377 HAWKINS, EVA K., Sch. Arts, Sci., Univ. Delaware, Newark, Del.
marine biology; algae; regeneration; cell division; cell differentiation; proteins; ribonucleic acid; reaction sites; actinomycin D; 8--azaguanine; chloramphenicol; demecolcine

GM-12422 LOEWUS, FRANK A., Col. Arts, Sci., State Univ. New York, Buffalo, N.Y.
inositol; cyclitols; glucose; cyclization; carbohydrates; uronic acids; enzymes; pectins; cellulose; plants; cell components..cell wall; cell differentiation

GM-12427 GALL, JOSEPH G., Grad. Sch., Yale Univ., New Haven, Conn.
cell components..cell nucleus; nucleic acid; genetics.. chromosomes; ovum; cell components..centrioles; spermatocytes; plants

GM-12451 ARNOLD, ALLAN W., Col. Arts, Sci., Brown Univ., Providence, R.I.
Sorghum; seeds; anthocyanins; photosensitivity; radiolabeled carbon; histogenesis

GM-12518 FISCHMAN, DONALD A., Cornell Univ. Med. Col., N.Y.C.
cell components..ribosomes; muscle cells; muscle proteins; enzymes; ribonucleic acid; amino acids; meromyosin; myosin

GM-12579 LAZAROFF, NORMAN, Syracuse Univ. Res. Fdn., Syracuse, N.Y.
Algae..Nostoc muscorum; photoreceptors; cell differentiation; chemical structure; photochemistry; phycobilins

GM-12580 DeMAGGIO, AUGUSTUS E., Dartmouth Col., Hanover, N.H.
cell division..mitosis; histogenesis; environment; mechanical pressure; ferns

GM-12641 LAWRENCE, IRVIN E., Jr., East Carolina Col., Greenville, N.C.
embryonic induction; germ layers; histogenesis; chorioallantoic membrane; transplantation..heterotransplantation; immunology..antigens; testosterone; pyridine nucleotides; oxidases..NADPH2 diaphorase

GM-12653 SIMPSON, SIDNEY B., Jr., Sch. Med., Western Reserve Univ., Cleveland, Ohio
ependyma; regeneration; tissue culture; cartilage; cell differentiation

GM-12655 ALBERSHEIM, PETER, Col. Arts, Sci., Univ. Colorado, Boulder, Colo.
staining; electron microscopy; indole acetic acid; carbohydrases..pectic enzymes; enzymes inhibitors; pectins; growth hormones; nucleic acids

GM-12667 HAYNES, ROBERT H., Univ. California, Berkeley, Cal.
radiation effects; ultraviolet rays; cell components; radiation sensitivity; cell culture; alkylating agents; nitrogen mustards; deoxyribonucleic acid; fungi..yeasts; bacteria..Escherichia coli; cell division..mitosis; oxygen; alpha particles; x--rays; microbeam radiation

GM-12706 WISCHNITZER, SAUL, Yeshiva Univ., New York, N.Y.
electron microscopy; oogenesis; cell division..meiosis; cell components; ovary..Graafian follicle; genetics.. chromosomes

GM-12718 GOSS, CHARLES M., Sch. Med., Louisiana State Univ., New Orleans, La.
conferences..international meetings; travel; anatomy; semantics..vocabulary

GM-12772 GOLDIE, MARK, Sch. Arts, Sci., Loyola Univ., Chicago, Ill.
congenital abnormalities; boric acid; insulin; pilocarpine; embryology; blastema; nutrients

GM-12777 TYLER, ALBERT, California Inst. Tech., Pasadena, Cal.
research programs; embryology; fertilization; ovum; spermatozoa; proteins; fertilizin; antifertilizin; immunology..blocking antibodies; cell components.. cell membrane; cell components..polysomes; messenger ribonucleic acid; deoxyribonucleic acid; molecules.. macromolecules; cell components..cytoplasm; transplantation immunology; cell differentiation

GM-12811 CHANG, ROBERT S., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
conferences; tissue culture; genetics..chromosomes; geographical sites..Florida

GM-12880 GRILLO, RAMON S., Adelphi Univ., Garden City, N.Y.
blastema; regeneration; cell; growth; tritium; thymidine

GM-12881 CLELAND, ROBERT E., Sch. Arts, Sci., Univ. Washington, Seattle, Wash.
plants; proteins; auxins; cell differentiation; amino acid analogs; growth inhibitors; hydroxyprolines; ethionine

GM-12885 RAPPAPORT, L., Sch. Agr., Univ. California, Davis, Cal.
beans; auxins; growth factors; growth inhibitors; gibberellins; seeds

GM-13048 GETZ, GODFREY S., Sch. Med., Univ. Chicago, Chicago, Ill.
cell components..mitochondria; cell components.. mitochondrial membrane; cell components..cell nucleus; cell components..nuclear membrane; phospholipids; cardiolipin; proteins; binding; fatty acids

GM-13072 WESTON, JAMES A., Col. Arts, Sci., Western Reserve Univ., Cleveland, Ohio
embryology; nerves..neurogenesis; cell differentiation; cell migration; cell aggregation; cell age; cell components..cell membrane; surface properties; neoplasms invasiveness

GM-13238 DAVIS, BERNARD D., Sch. Med., Harvard Univ., Boston, Mass.
conferences; cell biology; surface properties; cell components..cell wall; cell components.. cell membrane

GM-13259 ROTHSCHILD, JOEL A., Col. Phys., Surg., Columbia Univ., New York, N.Y.
cell components..cell membrane; protozoa..Amoeba; membrane permeability; chemical structure--biological activity; pinocytosis; cell components..lysosomes

GM-13560 GROSS, PAUL R., Massachusetts Inst. Tech., Cambridge, Mass.
cell division; cell differentiation; messenger ribonucleic acid; proteins; plants..roots; embryo; actinomycin D; enzymes; reaction sites

GM-13599 MUNGER, BRYCE L., Sch. Med., Univ. Chicago, Chicago, Ill.
electron microscopy; sweat glands; sebaceous glands; sodium chloride; myoepithelial cells; birefringence; cell movement; muscle contraction; islands of Langerhans; skin; nerves..innervation

GM-13624 CRONSHAW, JAMES, Col. Letters, Sci., Univ. California, Santa Barbara, Cal.
cell components..cell wall; cell components..cytoplasm; cellulose; amorphous solids; cell differentiation; growth; auxins; mannitol; colchicine; antimetabolites; cold

HD-00007 COLWIN, ARTHUR L., Sch. Liberal Arts, Queens Col., Flushing, N.Y.
fertilization; spermatozoa; ovum; membrane; cell adhesion

HD-00011 DAVENPORT, RICHARD, Grad. Sch., Univ. Illinois, Urbana, Ill.
nucleoproteins; cell components..cytoplasm; oogenesis; single cell analysis; ribonucleic acid; chemical structure; species

HD-00038 CASTON, J. DOUGLAS, Sch. Med., Western Reserve Univ., Cleveland, Ohio
proteins; cell-free systems; cell components..ribosomes; amino acyl soluble ribonucleic acid; transfer ribonucleic acid; synthetases; transferases; embryology

HD-00047 COLEMAN, JOHN R., Brown Univ., Providence, R.I.
myogenesis; muscle..skeletal muscle; actin; myosin; deoxyribonucleic acid; phosphotransferase..ATP; thymidine 5'phosphotransferase; phosphotransferases.. DNA nucleotidyl transferase; deaminases..deoxycytidylate deaminase; enzymes inhibitors; actinomycin D; puromycin; fibroblasts

HD-00059 WHITTAKER, J. RICHARD, Col. Letters, Sci., Univ. California, Los Angeles, Cal.
cell division..mitosis; eye..tapetum lucidum; melanin; cell differentiation; proteins; colchicine; demecolcine; vincaleukoblastine; nitrogen mustards; actinomycin D; mitomycin C; choline esterases.. acetylcholinesterase; immunology..antigens; cell differentiation

HD-00104 WELLINGS, SEFTON R., Sch. Med., Univ. Oregon, Portland, Ore.
mammary gland; hormones; cell components..granules; melanin; cell components..Golgi apparatus; melanoma; parathyroid neoplasms; adenoma; secretory mechanisms; culture media; organ culture

HD-00135 NOWINSKI, WIKTOR W., Sch. Med., Univ. Texas, Galveston, Tex.
histogenesis; embryo; oxidoreductases..isocitrate dehydrogenase; high energy compounds; tissue; growth; neoplastic growth; phosphatases..adenosine triphosphatase; adults

HD-00143 HAY, ELIZABETH D., Sch. Med., Harvard Univ., Boston, Mass.
histogenesis; muscle; limbs; regeneration; tritium; thymidine; myoblasts; cartilage; cell components..cell nucleus; proline

HD-00189 HOLTZER, HOWARD, Sch. Med., U. Pennsylvania, Philadelphia, Pa.
muscle proteins; embryology; cartilage; chondroitin sulfate; radiolabeled sulfur

HD-00192 GOSS, RICHARD J., Brown Univ., Providence, R.I.
regeneration; antlers; gonadectomy; gonadotropins; testosterone; estradiol; growth factors; kidney hyperplasia; sodium; adrenalectomy; nephrectomy

HD-00193 GLUECKSOHN-WAELSCH, SALOME, Albert Einstein Col. Med., Bronx, N.Y.
mutations; muscle; embryology; cell differentiation; congenital abnormalities; organ culture; genetics..genes; immunology..antibodies; maternal--fetal; hemoglobin; genetic strains; protozoa..Plasmodium berghei; host--parasite

HD-00203 HERRMAN, HEINZ, U. Connecticut, Storrs, Conn.
embryology; proteins; antimetabolites; muscle; connective tissue; eye..cornea; muscular dystrophy

HD-00223 OVERTON, JANE H., Grad. Sch., Univ. Chicago, Chicago, Illinois
eye; regeneration; metamorphosis; intestines, duodenum; histogenesis

HD-00225 ROSE, S. MERYL, Sch. Med., Tulane Univ., New Orleans, La.
x-rays; radiation effects; regeneration; transplantation; nerves; skin; limbs; cell migration; tritium; blood cells

HD-00380 LASH, JAMES W., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
chondrogenesis; spinal cord; nucleotides; polysaccharides; proteins; cartilage; embryology; notochord; kidney

HD-00437 MURRAY, DAVID G., University Hosp., Syracuse, N.Y.
age; bone..epiphyseal closure; cartilage; proteases.. papain; α-aminonitriles; vitamin A; hormones

HD-00471 ROOSEN-RUNGE, EDWARD C., Sch. Med., U. Washington, Seattle, Wash.
testis; histogenesis; spermatogenesis; cyclic functions; coelenterates; gonads; embryology

HD-00496 SCHULTZ, RICHARD L., Sch. Med., U. Colorado, Denver, Colo.
embryo resorption; ethionine; pregnancy..placenta; methionine; proteins; nucleic acids; proteases; phosphomonoesterases..acid phosphatase; uterus; oxidases..succinate oxidase; glycogen; lipids; radiolabeled

HD-00509 THIEDE, HENRY A., Sch. Med., Univ. Rochester, Rochester, N.Y.
trophoblast; tissue culture; culture media; pregnancy placenta; fetus; genetics..sex chromosomes; pregnancy.. abortion; immunofluorescence

HD-00513 PIATT, JEAN, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
radiation effects; embryology; transplantation; parabiosis; germ layers; temperature; regeneration; nervous system

HD-00519 CRAWFORD, RICHARD B., Sch. Dent., Univ. Pennsylvania, Philadelphia, Pa.
embryology; tissue respiration; oxidative phosphorylation; electron transport; cell differentiation; ribonucleic acid

HD-00544 GALTON, MICHAEL, Sch. Med., Dartmouth Col., Hanover, N.H.
trophoblast; maternal-fetal; immunology..antigens; histocompatibility

HD-00552 HADEK, ROBERT, Sch. Med., Loyola Univ., Chicago, Ill.
cell differentiation; embryology; electron microscopy; cell culture; fertilization; radiolabeled

HD-00569 JOLLIE, WILLIAM P., Sch. Med., Tulane Univ., New Orleans, La.
trophoblast; pregnancy..placental transfer; histogenesis

HD-00593 NAGANO, TOSHIO, Sch. Med., Chiba Univ., Chiba, Japan
testis; histogenesis; spermatogenesis; sex differentiation abnormalities; cell division.. mitosis; cell components..centrioles; cell components..intercellular bridges; phosphatases.. adenosine triphosphatase; nutrition; hypophysectomy; vasectomy; cryptorchidism

HD-00607 WILSON, JAMES G., Sch. Med., Univ. Florida, Gainesville, Fla.
congenital abnormalities; teratogenic agents; pregnancy; dosage; purine analogs; pyrimidine analogs; folic acid antagonists; trypan blue; hypervitaminosis; thalidomide

HD-00699 KESSEL, RICHARD G., Grad. Sch., State Univ. Iowa, Iowa City, Iowa
ovum; cell components..organelles; cell components.. cytoplasm; egg yolk; ribonucleic acid; tritium; cell differentiation; oogenesis

HD-00700 COHEN, STANLEY, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
skin; keratinization; growth factors; submandibular gland; proteins; injury..wound healing; cell division ..mitosis; chemical structure--biological activity; immune sera; embryology; organ culture; tritium

HD-00701 BARTH, LESTER G., Marine Biological Lab., Woods Hole, Mass.
cell differentiation; embryonic induction; tissue respiration; genetics..hybrids; lithium; calcium; magnesium; sodium bicarbonate; sulfhydryls

HD-00725 JACOBSON, ANTONE G., Grad. Sch., Univ. Texas, Austin, Tex.
embryology; heart; eye; nose; ear

HD-00726 HAMILTON, TERRELL H., Grad. Sch., Univ. Texas, Austin, Tex.
histogenesis; urinary tract; reproductive system; nucleic acids; oxidases; dehydrogenases; hormones; steroids; uterus

(contd)

CELL BIOLOGY (CONTD)

HD-00777 **PRIEST, JEAN H., Univ. Colorado Med. Ctr., Denver, Colo.**
synchronous cell division; genetics..chromosomes; genetics..diploidy; genetics..autosomes; deoxyribonucleic acid replication; tritium; thymidine

HD-00827 **HILLMAN, NINA W., Col. Liberal Arts, Temple Univ., Philadelphia, Pa.**
ribonucleic acid; deoxyribonucleic acid; embryology; teratogenic agents; congenital abnormalities; reaction sites; brain; eye; notochord; blastoderm; mutations

HD-00850 **BARKSDALE, ALMA W., New York Botanical Garden, Bronx, N.Y.**
fungi..Achlya ambisexualis; microbial culture; sex difference; sex hormones

HD-01009 **TRAURIG, HAROLD H., Sch. Med., Univ. Kentucky, Lexington, Ky.**
cell division; cell type; uterus; vagina; mammary glands; estrogens; progestins; tritium; deoxyribonucleic acid; estrus cycle; pregnancy

HD-01026 **PADYKULA, HELEN A., Wellesley Col., Wellesley, Mass.**
cytochemistry; electron microscopy; reaction sites; phosphatases..adenosine triphosphatase; diaphragm; muscles..skeletal muscle; muscles..myofibrils; infant animals..newborn; cell components.. mitochondria; cell differentiation; nerves degeneration; pregnancy..placental transfer; lipids; intestinal absorption

HD-01042 **RIKMENSPOEL, ROBERT, Population Council, Rockefeller Inst., New York, N.Y.**
fertility; spermatozoa motility; tissue respiration; oxidative phosphorylation; fructose; biomathematics; antimycin; amobarbital; antimetabolites

HD-01050 **CHIQUOINE, A. DUNCAN, Sch. Med., Washington Univ., St. Louis, Mo.**
germ cells; cell types; cell migration; gonads; histogenesis; sex differentiation abnormalities; sex hormones; drugs

HD-01165 **GREGG, JOHN R., Duke Univ., Durham, N.C.**
embryology; glycolysis; respiratory enzymes; cell components

HD-01169 **SUNTZEFF, VALENTINA, Sch. Med., Washington Univ., St. Louis, Mo.**
aging; gastrointestinal system; pancreas; proteins; enzymes

HD-01174 **WILLIAMS, MARGARET L., Philadelphia Gen. Hosp., Philadelphia, Pa.**
cell components..mitochondria; thyroxine; phosphates; ionic bonds; calcium; fumarate; glutathione; oxidation; peroxidation; liver; fetus

HD-01230 **SCHOTTE, OSCAR E., Amherst Col., Amherst, Mass.**
regeneration; hormones; injury..wound healing; age; pituitary gland; cytology; ACTH; amputation; fingers; cortisone; limbs

HD-01234 **RUBEN, LAURENS N., Reed Col., Portland, Ore.**
limbs; regeneration; implants; cytolysis; transplantation.. homotransplantation; transplantation..heterotransplantation; dosage; genetics; histogenesis

HD-01236 **FRIEDEN, EARL, Grad. Sch., Florida State Univ., Tallahassee, Fla.**
metamorphosis; hemoglobin; proteins; albumins..serum albumins; liver; radiolabeled carbon; nucleic acid; enzymes

HD-01241 **BLOOM, WILLIAM C.H., Univ. Chicago, Chicago, Ill.**
cell division..mitosis; genetics..chromosomes; radiation effects; ultraviolet rays; microbeam radiation

HD-01242 **SWIFT, HEWSON, Grad. Sch., Univ. Chicago, Chicago, Ill.**
proteins; deoxyribonucleic acid; ribonucleic acid; heavy metals; binding; radioautography; electron microscopy; salivary glands; hematopoiesis..erythropoiesis; amino acid analogs; skin; liver; pancreas; corn

HD-01245 **SWARTZ, FRANK J., Sch. Med., Univ. Louisville, Louisville, Ky.**
genetics..polyploidy; liver; regeneration; hormones; growth

HD-01248 **BOWEN, CHARLES C., Grad. Sch., Iowa State Univ., Ames, Iowa**
electron microscopy; cell division..meiosis; cell division..mitosis; genetics..chromosomes; cell components ..cytoplasm; cell components..cell nucleus; ferns; algae.. Nostoc; algae..blue--green algae; algae..Symploca muscorum; fungi, Phycomycetes; genetic strains; host--parasite

HD-01253 **MOSCONA, ARON A., Grad. Sch., Univ. Chicago, Chicago, Ill.**
cell aggregation; neoplastic cells; marine biology; nutrition; mucoproteins; cell components..membrane; cell differentiation; histogenesis; enzymes; transplantation

HD-01260 **ROTH, L. EVANS, Col. Sci., Humanities, Iowa State Univ., Ames, Iowa**
cell division..mitotic spindle; protozoa; ribonucleic acid; cell components..protoplasmic movement; cell components..chromatin

HD-01285 **KENWORTHY, WALTER J., Wheaton Col., Norton, Mass.**
seasonal variation; melanin; melanocytes; gonadotropins; MSH; ACTH; melatonin; androgens; estrogens; progesterone; irritants; x--rays; radiation effects

HD-01317 **PADYKULA, HELEN A., Wellesley Col., Wellesley, Mass.**
muscle..skeletal muscle; diaphragm; cell components.. mitochondria; phosphatases..adenosine triphosphate; histogenesis; pregnancy..placenta; glycogen; lipids; intestines

HD-01337 **WOOD, RICHARD L., Sch. Med., Univ. Washington, Seattle, Wash.**
liver; electron microscopy; cell differentiation; liver cells; bile ducts; epithelium; dietary deficiency; ethionine; poisoning

HD-01476 **AMOROSO, EMMANUEL C., Royal Vet. Col., London, England**
pregnancy..placenta; nervous system; neuroeffectors; neoplasms; nervous system..autonomic nervous system; phylogeny

HD-01499 **COWDEN, RONALD R., Univ. Florida, Gainesville, Fla.**
hematology; embryology; nucleoproteins; cell differentiation; immunology; blood cells..plasma cells; myeloma, bone marrow..multiple myeloma; blood cells..basophil leukocytes; mast cells; mast cells neoplasms

HD-01541 **GROB, HOWARD S., Col. Dent., New York Univ., New York, N.Y.**
ovary..Graafian follicle; organ culture; growth factors; gonadotropins; hormones; implants; reaction sites; eye..anterior chamber

HD-01829 **LUYKX, PETER, Col. Liberal Arts, Univ. Minnesota, Minneapolis, Minn.**
genetics..chromosomes; cell division..mitosis; cell division..meiosis; cell division..mitotic spindle; cell division..synchronous cell division; biological models; orientation; nucleic acids; enzymes; lipids

HD-01832 **O'BRIEN, REGINA, Col. Arts, Sci., New York Univ., New York, N.Y.**
cell differentiation; histones; deoxyribonucleic acid; genetics..genes; arginine; lysine; blood cells; embryo

HE-01770 **PEASE, DANIEL C., Sch. Med., Univ. California, Los Angeles, Cal.**
blood vessels; elastin; mucopolysaccharides; arteriosclerosis; connective tissue; electron microscopy

HE-02083 **BLANDAU, RICHARD J., Sch. Med., Univ. Washington, Seattle, Wash.**
cell differentiation; muscles..myofibrils; heart..myocardium; cell division..mitosis; electrophysiology; cell components..mitochondria; cell components..cell nucleus; heart contraction; heart conduction system.. Purkinje fibers

HE-02454 **KRAHL, VERNON E., Sch. Med., Univ. Maryland, Baltimore, Md.**
infants (animal)..newborn; lung..alveolus; lung..bronchi; nervous system..autonomic nervous system; phagocytes; pulmonary body; pulmonary circulation; respiration; species

HE-02698 **EVERETT, NEWTON B., Sch. Med., Univ. Washington, Seattle, Wash.**
amino acid; cell; electron microscopy; membrane permeability; polarization optics; proteins; tissue

HE-02775 **HALL, B. VINCENT, Grad. Sch., Univ. Illinois, Urbana, Ill.**
basement membrane; cytology; endothelium permeability; enzymes

HE-03252 **COPENHAVER, WILFRED M., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
heart..myocardium; embryology; oxidoreductases.. succinate dehydrogenase; glycogen; cholinesterases; blood circulation dynamics; nerves; regeneration

HE-04443 **CABRERA, GUILLERMO, Col. Dent., New York Univ., New York, N.Y.**
phosphotransferases..ATP : creatine phosphotransferase; muscle, skeletal muscle; heart; histogenesis; muscle proteins

HE-04512 **WISSIG, STEVEN L., Univ. California Med. Ctr., San Francisco, Cal.**
capillaries; endothelium; basement membrane; membrane permeability; histamine; hypoxia; calcium; cytology; electron microscopy

HE-04838 **STRONG, LEON H., Chicago Med. Sch., Chicago, Ill.**
cerebrovascular system; nervous system..central nervous system; sense organs; embryology

HE-04988 **PAULE, WENDELIN J., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
aging; embryology; arteries..aorta; elastin; staining; electron microscopy; proteases..elastase

HE-05648 **PALADE, GEORGE E., Rockefeller Inst., N.Y.C.**
basement membrane; capillaries; chemical structure; colloids; cytology; endothelium permeability

HE-05946 **DUNIHUE, FRED W., Sch. Med., Univ. Vermont, Burlington, Vt.**
adrenalectomy; heart..myocardium; heart conduction system.. Purkinje fibers; heart conduction system..sinoatrial node; kidney..glomerulus; mineralocorticoids

HE-06465 **COPENHAVER, WILFRED M., Col. Phys., Surg., Columbia Univ., N.Y.C.**
cardiovascular system; heart..myocardium; heart conduction system; heart enlargement; histogenesis; radiation effects

HE-07433 **BRANDT, PHILIP W., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
pinocytosis; capillaries; muscles..skeletal muscle; connective tissue; endothelium permeability; blood pressure; muscle contraction; contrast media; cell components..cell membrane; immunology..antibodies; [illegible]; nerve impulse transmission

HE-07976 **BAKER, RICHARD F., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
cell components..cell membrane; blood cells, erythrocytes

HE-08435 **MOSKOWITZ, MERLE S., Sch. Med., Univ. Colorado, Denver, Colo.**
albumins; emulsions; fatty acids; L-cells; lipids; membrane permeability; pinocytosis; triglycerides; tritium

HE-09041 **LOW, FRANK N., Sch. Med., Univ. North Dakota, Grand Forks, N.D.**
plastics; cytology

HE-09125 **KARNOVSKY, MORRIS J., Harvard Med. Sch., Boston, Mass.**
choline esterase; enzyme inhibitors..anticholinesterase; reaction sites; electron microscopy; chemical structure--biological activity; heart..myocardium; muscles..skeletal muscle; capillaries; heart..atrium; heart..ventricles; oxidoreductases..cytochrome c oxidase; kidney..renal tubules; seasonal variation; nutrition; species; membrane permeability and transport; cell components..mitochondria; phagocytosis; pinocytosis; cooperative study

NB-00190 **UZMAN, BETTY G., Children's Cancer Res. Fdn., Boston, Mass.**
nerves..neurons; nerves..myelin; nerves..neuroglia; nerves..demyelination

NB-00284 **PEASE, DANIEL C., Sch. Med., Univ. California, Los Angeles, Cal.**
bacterial diseases; brain..cerebral cortex; electron microscopy; inflammation; nerves..neuroglia; nerves degeneration..Wallerian degeneration; nervous system..peripheral nerves; regeneration

NB-00401 **LUFT, JOHN H., Grad. Sch., Univ. Washington, Seattle, Wash.**
nerves; muscles..myofibrils; electric organ; muscles..smooth muscle; protozoa..Amoeba; fungi..slime molds

NB-00415 **LaVELLE, ARTHUR, Col. Med., Univ. Illinois, Chicago, Ill.**
nerves..neurogenesis; brain..facial nerve motor nucleus; lipids; nucleoproteins; phosphorus; cell components..cell nucleolus; phosphatases..adenosine triphosphatase

NB-00434 **LOWRY, OLIVER H., Washington Univ., St. Louis, Mo.**
eye..retina; growth; nerves..denervation

NB-00492 **SMELSER, GEORGE K., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
sulfomucopolysaccharides; injury..scars; injury..wound healing; growth; tritium; regeneration; keratoplasty

NB-00514 **FLEXNER, LOUIS B., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
brain..cerebral cortex; nerves..neurons; nerves..neuroglia; proteins; puromycin; behavior; age

NB-00690 **DUNCAN, DONALD, Univ. Texas Med. Branch, Galveston, Tex.**
electron microscopy; nervous system..central nervous system; spinal cord; brain; nervous system disorders; nerves..synapse; cell types; pigments; tissue culture; nerves..myelin; brain; pituitary gland..neurohypophysis; nervous system neoplasms; adrenal medulla; aging

NB-00908 **WRIGHT, MARGARET R., Vassar Col., Poughkeepsie, N.Y.**
sense organs; regeneration; transplantation..autotransplantation; nerves..denervation; pituitary gland

NB-01202 **SMELSER, GEORGE K., Col. Phys., Surg., Columbia Univ., N.Y.C.**
cytology; eye; endothelium; embryology

NB-01353 **FARNER, DONALD S., Grad. Sch., Washington State Univ., Pullman, Wash.**
brain..hypothalamus; gonads; lipids; neurohormones; neurosecretion; photoperiodism; pituitary gland; species

NB-01528 **REGER, JAMES R., Sch. Med., Univ. Colorado, Denver, Colo.**
neuromuscular junction; spermatozoa; cell components..flagella; cell differentiation; kidney; ferritin; hemoglobinuria ..paroxysmal nocturnal hemoglobinuria; muscle..sarcoplasmic reticulum; electron microscopy

NB-01544 **REYER, RANDALL W., Sch. Med., West Virginia Univ., Morgantown, W. Va.**
eye..lens; ear; nose; embryonic induction; regeneration; eye and lens transplantation; eye..iris

NB-01705 **VAN STONE, JAMES M., Trinity Col., Hartford, Conn.**
regeneration; limbs; embryology; nervous system..peripheral nerves; thyroxine

NB-01879 **PICK, JOSEPH, New York Univ. Med. Cr., N.Y.C.**
nervous system..sympathetic nervous system; nerves..neurons; nervous system..vagus nerve; ganglion, nervous system; brain; adults; fetus; intestines; radiation effects..whole body radiation; microsurgery and microdissection

NB-01914 **BOURNE, GEOFFREY H., Sch. Hlth. Sci., Emory Univ., Atlanta, Ga.**
ganglion (nervous system)..spinal ganglion; cell components..organelles; neurohormones; lipofuscin; aging; carbohydrases..β-glucuronidase; esterases; cell components..mitochondria

NB-02173 **de LORENZO, A.J., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
nerves..synapse; sense organs

NB-02215 **BLACKSTAD, THEODORE W., Univ. Oslo, Oslo, Norway**
brain..cerebral cortex; brain..hippocampus; cytology; nerves..synapse; brain..brain stem; eye..vitreous body; collagen; embryology; skin

NB-02314 **PAPPAS, GEORGE D., Sch. Med., Columbia Univ., N.Y.C.**
brain..cerebral cortex; genetics..chromosomes; nerves..dendrites; nerves..synapse; pinocytosis; protozoa..Amoeba

NB-02321 **MONROE, BARBARA G., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
pituitary gland..neurohypophysis; pituitary gland..median eminence; brain..hypothalamus; neurosecretion

NB-02665 **ROBERTSON, J. DAVID, McLean Hosp., Belmont, Mass.**
nerves..myelin; nerves..synapse; cell components..cell membrane; ganglion, nervous system; electron microscopy; x--ray diffraction; lipids; lipoproteins

NB-03113 **KASTEN, FREDERICK H., Pasadena Fdn. Med. Res., Pasadena, Cal.**
cell culture; brain neoplasms; viruses..oncogenic viruses; meningioma; chlordiazepoxide; nerves..oligodendroglia; nerves..astrocytes; growth factors

NB-03114 **HILD, WALTHER J., Sch. Med., Univ. Texas, Galveston, Tex.**
nervous system; single cell analysis; tissue culture; cell types; enzymes; nutrients

NB-03126 **CURTIS, ROBIN L., Col. Med. Dent., Seton Hall Col., Jersey City, N.J.**
mutations; neuromuscular diseases; nervous system..central nervous system; dyskinesia; athetosis; nervous system transplantation; ganglion, nervous system..vestibular ganglia; nerves..myelination; publications..atlas; neuroanatomy; nervous system..peripheral nerves; neuromuscular transmission; neuromuscular junction

NB-03348 **HAMA, KIYOSHI, Sch. Med., Hiroshima Univ., Hiroshima, Japan**
cytology; nerves..neurons Mauthner's; nerves..synapse

NB-03384 **SINGER, MARCUS, Sch. Med., Western Reserve Univ., Cleveland, Ohio**
nerves; regeneration; electron microscopy; enzymes; radioautography; publications..atlas; brain

NB-03466 **HOLLINSHEAD, MAY B., Sch. Med., Dent., Seton Hall C., Jersey City, N.J.**
embryology; muscle..skeletal muscle; muscular dystrophy

NB-03599 **THAEMERT, JONA C., Sch. Med., Univ. Colorado, Denver, Colo.**
muscle..smooth muscle; nerve endings; cell components ..intercellular bridges; muscle contraction; gastrointestinal system

NB-03609 **O'STEEN, W. KEITH, Univ. Texas Med. Br., Galveston, Tex.**
muscle; muscular dystrophy; histocompatibility; peritoneal cavity; histamine; serotonin

NB-03614 **YAMADA, EICHI, Faculty Med., Kyushu Univ., Fukuoka, Japan**
eye; photoreceptors; cell differentiation; cell components..cell membrane; cell components..endoplasmic reticulum; embryonic induction

NB-03659 **PALAY, SANFORD L., Sch. Med., Harvard Univ., Boston, Mass.**
electron microscopy; nerves..neurons; nerves..synapse; nerves..neuroglia; nerves..neuropil; cerebrovascular system

NB-03700 **GRILLO, MARY A., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
ganglion, nervous system..autonomic ganglia; nerves degeneration; regeneration; nerves..neurons

NB-03979 **BUEKER, ELMER D., Col. Dent., New York Univ., N.Y.C.**
amino acid sequence; chemical structure; growth factors; nerves; proteins; submandibular gland

NB-04116 **FELDMAN, GERALD L., Col. Med., Baylor Univ., Houston, Tex.**
cataract; cataractogen; screening; chemical structure--biological activity; tissue respiration; eye; embryology; cytochrome; dehydrogenases; aminotransferases; phosphatases

NB-04128 **THORNTON, CHARLES S., Grad. Sch., Michigan State Univ., East Lansing, Mich.**
regeneration; limbs; skin; blastema; transplantation; nerves..denervation; nerves; embryonic induction; tritium; cell dedifferentiation

NB-04179 **MAYNARD, EDITH A., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
nerves..synapse; ganglion (nervous system)..superior cervical ganglion; nerves..neurogenesis; oxidoreductases; choline esterases; regeneration; nervous system; brain

NB-04235 **BUNGE, RICHARD P., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
nerves..neuroglia; cell differentiation; nervous system..peripheral nerves; nervous system..central nervous system; age; tritium; ionizing radiation; x--rays; AET; radiation protection drugs; thyroid hormones

NB-04426 **O'RAHILLY, RONAN, Sch. Med., St. Louis Univ., St. Louis, Mo.**
eye; embryology; polysaccharides; enzymes; fetus

NB-04455 **PAPACONSTANTINOU, JOHN, Col. Liberal Arts, Sci., Univ. Connecitcut, Storrs, Conn.**
embryology; genetics; eye..lens; proteins; epithelium; culture media; ribonucleic acid; deoxyribonucleic acid; mutagens

(contd)

CELL BIOLOGY (CONTD)

NB-04555 **PESETSKY, IRWIN, Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.**
cell differentiation; hypophysectomy; metamorphosis; nerves..neurons Mauthner's; nerves degeneration; phosphomonoesterases..acid phosphatases; phosphotransferases..ATP: thiamine pyrophosphotransferase; thyroxine; transplantation..homotransplantation

NB-04640 **CASKY, TIHAMER Z., Col. Med., Univ. Kentucky, Lexington, Ky.**
binding; sodium; cell components..microsomes; brain.. cerebral cortex; ion exchange and transport; fractionation; cell components..cell membrane; electrostimulus; radiolabeled sodium; membrane permeability and transport

NB-05137 **EDWARDS, JOHN STUART, Western Reserve Univ., Cleveland, Ohio**
cell death; aging; nervous system..central nervous system; nerves..neurons; nerves, degeneration; neurotoxins; life cycle; cell components..lysosomes; enzymes; organ culture

NB-05350 **VENABLE, JOHN H., Col. Vet. Med., Oklahoma State Univ., Stillwater, Okla.**
muscles..myofibrils; growth; electron microscopy; radioautography; tritium; proteins; testosterone

NB-05430 **ROBINSON, JOSEPH D., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.**
brain; cell components..microsomes; conformations (chemistry); phospholipids; ions..cation; binding; osmotic pressure; electron transport; enzymes; radiolabeled phosphorus; radiolabeled sulfur; tritium; light scattering; acetylcholine; norepinephrine; histamine; serotonin; gamma--aminobutyric acid; oxytocin; neurotropic drugs; ouabain; EDTA

NB-05620 **GAUTHIER, GERALDINE F., Wellesley Col., Wellesley, Mass.**
muscle..skeletal muscle; muscle..myofibrils; muscle.. sarcoplasmic reticulum; muscle contraction; cell components..mitochondria; phosphatases..adenosine triphosphatase; dehydrogenases..succinate dehydrogenase

NB-05635 **RAFFERTY, NANCY S., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
eye..lens; epithelium; eye neoplasms; growth; cell migration; injuries; enzymes; tritium

NB-05673 **HERRMANN, HEINZ, Sch. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.**
muscular dystrophy; tissue culture; culture media; muscles..skeletal muscle; muscles..myofibrils; proteins; myosin; proteolysis; tritium; radiolabeled carbon

NB-05721 **HAMBURGER, VIKTOR, Grad. Sch. Arts, Sci., Washington Univ., St. Louis, Mo.**
nerves..neurogenesis; nerves..motor neurons; nervous system..peripheral nerves; ganglion, nervous system..spinal ganglion; egg hatching; rhythm; body movement; embryology; spinal cord transection; microsurgery and microdissection; behavior

NB-05725 **ROSENBLUTH, JACK, Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.**
electron microscopy; nerves..neurogenesis; nerves.. myelination; nerves..synapses; nerves..Nissl bodies; cell components..organelles; embryology; amphibians; blood--brain barrier

NB-05843 **PECK, DAVID, Univ. Kentucky Med. Cr., Lexington, Ky.**
cell differentiation; eye..retina; melanin; phenol oxidases.. tyrosinases; antibiotics; histones

NB-06052 **HAMA, KIYOSHI, Sch. Med., Osaka Univ., Osaka, Japan**
electron microscopy; nerves..synapses; nerves..neuroglia; cell types; nerve impulse transmission; electrostimulus; antimetabolites; 2,4--dinitrophenol; cyanides; choline esterase; single cell analysis

NB-06241 **HARRISON, JOHN R., Washington and Jefferson Col., Washington, Pa.**
egg yolk; albumins; fractionation; culture media; radiolabeled carbon; glucose; membrane permeability and transport; eye

CHEMOTHERAPY

AI-04264 **MANDEL, H. GEORGE, Sch. Med., George Washington Univ., Washington, D.C.**
bacteria; bactericides; growth inhibitors; viricides; viruses

AI-05230 **GERBER, NANCY N., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.**
phenazines; actinomycetes..Waksmania; bacteria.. Pseudomonas; molecular structure; stereochemistry; antibiotics; metabolites; antineoplastic agents; iodinin

AI-06397 **HERRMANN, ERNEST C., Jr., Mayo Clinic, Rochester, Minn.**
conferences..international meetings; virus inhibitors; viricides; therapy evaluation; virus diseases; herpes simplex; eye disorders; carcinogenesis; infectious diseases; nucleic acids; proteins; virus replication; thiosemicarbazones; halopyrimidines; chemical structure--biological activity; statolon; cytosine; arabinose; cyclopin; antibiotics..miramycin; oils

AI-06398 **ROSOFF, CHESTER B., Beth Israel Hosp., Boston, Mass.**
bacteria..enterobacteria; gastrointestinal system ..x--rays; injuries; injuries..burns; injuries.. wound healing; radiation effects..whole body radiation; radiation protection; neomycin; alkylating agents; antimetabolites; bactericides

AI-06759 **SIMON, EDWARD H., Sch. Sci., Purdue Univ., Lafayette, Ind.**
dimethyl sulfoxide; toxicology; Hela cells; bacteria..Escherichia coli; viruses..bacteriophage; infectious diseases; membrane permeability and transport

AM-07371 **SEED, JOHN C., Calvary Hosp., Bronx, N.Y.**
analgesics..antipyretics; body temperature; acetysalicylic acid; sodium; salicylates; acetophenetidine; antipyrine

AM-09050 **NUGENT, WARREN F., Lahey Fdn., Boston, Mass.**
hemorrhagic shock; pancreatitis; peripheral vascular resistance; blood flow; blood pressure; vasoactive agents..vasodilators; kallikrein

CA-01696 **FIESER, LOUIS F., Harvard Univ., Cambridge, Mass.**
lipids; adrenal glands; dehydroepiandrosterone; oxidation; cholesterol; 3,4--secocholestane--6--(3a,5a) (3β,4)--dioxide; hormone analogs; synthesis; hydroxyalkylnaphthoquinones; microorganisms

CA-01744 **FLETCHER, T. LLOYD, Sch. Med., Univ. Washington, Seattle, Wash.**
fluorenes; antineoplastic agents; synthesis; carcinogenesis; 3,4-benzocoumarin; reaction sites; fluorinated amines; carcinogens; chemical structure--biological activity; metabolites; stomach..gastric juice inhibitors; gastric pouch; N-hydroxylation reactions; maleimides; aryl nitrogen mustards; halofluorenes; alkylation; aromatic amines

CA-02130 **FRIEDMAN, ORRIE M., Brandeis Univ., Waltham, Mass.**
alkylating agents; amidases..phosphamidase; antineoplastic agents; enzymes; neoplasms; N-phosphorylation; synthesis

CA-02332 **GELLHORN, ALFRED, Col. Phys., Surg., Columbia Univ., New York, N.Y.**
research programs; cells; lipids; proteins; immunochemistry; enzymes; hematology; cancer chemotherapy

CA-02373 **VISSER, DONALD W., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
purine analogs; pyrimidine analogs; synthesis; deoxyribonucleic acid; growth, microorganisms; mutations; bacteria; viruses..bacteriophage

CA-02421 **ENGEL, LEWIS L., Sch. Med., Harvard Univ., Boston, Mass.**
antineoplastic agents; steroid hormones; proteins; lymphoma

CA-02433 **ADAMS, WILLIAM S., Sch. Med., Univ. California, Los Angeles, Cal.**
leukemia; lymphoma; myeloma, bone marrow..multiple myeloma; nucleoproteins; purine; pyrimidine; nucleosides; nucleotides; antimetabolites; therapy

CA-02478 **SELIGMAN, ARNOLD M., Sinai Hosp. Baltimore, Baltimore, Md.**
bioassay; research programs; enzymes; neoplasms; electron microscopy; synthesis; antineoplastic agents; enzymes substrates; chromophores; tourniquets; bone marrow; transplantation..autotransplantation

CA-02571 **GUTMANN, HELMUT R., Univ. Minnesota, Minneapolis, Minn.**
aromatic amines; oxidation; proteins; binding; carcinogens; chemical structure--biological activity; synthesis; stable isotope labeled nitrogen; radiolabeled carbon; aminofluorenols

CA-02620 **CLARK, R. LEE, Jr., Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.**
melanoma; carcinoma; sarcoma; antineoplastic agents; perfusion; surgery; melanin; melanocytes; cell culture; 3-(p-(bis(2-chloroethyl)-amino) phenyl)-DL-alanine; metastasis; therapy evaluation

CA-02653 **CASTLE, RAYMOND N., Grad. Sch., Univ. New Mexico, Albuquerque, N.Mex.**
pyridazines; antineoplastic agents; synthesis; imidazo (4,5-d) pyridazines; 4-methoxy-7-methyl triazolo (4,5-d) pyridazine; sulfur mustards; imidazo (4,5-c) pyridazines; triazolo (4,5-b) pyridazines

CA-02797 **GOLDSTEIN, AVRAM, Sch. Med., Stanford Univ., Palo Alto, Cal.**
drugs resistance; bacteria..Escherichia coli; deoxyribonucleic acid replication; mutations; proteins; nucleic acids; auxotrophs

CA-02799 **YOSHIDA, TOMIZO, Med. Inst. Sasaki Fdn., Tokyo, Japan**
hepatoma; ascites tumors; screening; antineoplastic agents

CA-02817 **WELCH, ARNOLD D., Sch. Med., Yale Univ., New Haven, Conn.**
pyrimidine; nucleotides; nucleic acids; viricides; antineoplastic agents; 6-azauridine; 5-iododeoxyuridine; 5-iododeoxycytidine; 5-bromodeoxycytidine; 6-seleno-guanine; enzymes; bacteria; neoplasms; transplantation; antimetabolites

CA-02857 **TIECKELMANN, HOWARD, State Univ. New York, Buffalo, N.Y.**
synthesis; antineoplastic agents; screening; antimetabolites; pyrimidine analogs; pyrimidine nucleosides; 5--allyloyrimidine; nucleotides esters; amino--acyl--adenylates; amino acid analogs; adenosine analogs; allyloyridinones

CA-02903 **SIMPSON, WILLIAM L., Detroit Inst. Cancer Res., Detroit, Mich.**
blood proteins; carcinogenesis; computer analysis; connective tissue; mast cells; neoplastic growth

CA-02906 **ZAKRZEWSKI, SIGMUND F., Hlth. Res., Inc., Buffalo, N.Y.**
drugs resistance; folic acid antagonists..methotrexate; sarcoma; oxidoreductases..folic acid reductases; leukemia; enzyme substrate complex; enzyme inhibitors; nutrition; bacteria

CA-02915 GREENBERG, DAVID M., Sch. Med., Univ. California, San Francisco, Cal.
enzymes; antineoplastic agents; screening; nutrients; immunology..antibodies; methotrexate; drugs resistance; genetics; neoplasms

CA-02972 RUTENBURG, ALEXANDER M., Beth Israel Hosp., Boston, Mass.
1,2-bis(2-iodoacetoxy)ethane; cancer chemotherapy; gastrointestinal neoplasms; enzyme substrate analogs; antineoplastic agents; hydrolases; detoxication

CA-02975 CREECH, HUGH J., Inst. Cancer Res., Philadelphia, Pa.
acridine; alkylating agents; antineoplastic agents; ascites tumors; bacteria..Serratia marcescens; chemical structure--biological activity; immunology; lipopolysaccharides; neoplasms; nitrogen mustards; proteins; quinolines; screening; synthesis

CA-02978 MANDEL, H. GEORGE, Sch. Med., George Washington Univ., Washington, D.C.
antineoplastic agents; cell; cell division; cell-free systems; deoxyribonucleic acid; enzymes; growth; microorganisms; neoplastic cells; neoplastic growth; nucleic acids analogs; proteins; ribonucleic acid

CA-02992 MELLETT, LAWRENCE B., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
alkylating agents; thio--TEPA; cyclophosphamide; antineoplastic agents; radiolabeled carbon; tritium; intestinal absorption; tissue; binding

CA-03037 SCHUELER, FRED W., Sch. Med., Tulane Univ., New Orleans, La.
antineoplastic agents; chemical structure--biological activity; drugs; hemicholinium; leukemia; mathematical models; screening; synthesis

CA-03060 TAYLOR, SAMUEL G., III, Presbyterian-St. Luke's Hosp., Chicago, Ill.
radiolabeled carbon; formates; serine; leucine; methionine; thymidine; breast neoplasms; metastasis; radioautography; tritium; hormones; screening; antineoplastic agents; bone marrow; sulfates; intestines

CA-03110 ISENBERG, HENRY D., Long Island Jewish Hosp., New Hyde Park, N.Y.
urethan; protozoa..Peterinchromonas sinilate; growth inhibitors; cell-free systems; thymine; methyl aspartic acid; tissue respiration; single cell analysis; surface properties

CA-03143 KENNEDY, BYRL J., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
adrenal cortex hormones; androgens; 2-bis(2-chloroethyl) amino-2H-1,3,2-oxazaphosphorinane 2-oxide; breast neoplasms; estrogens; hematopoiesis..erythropoiesis; hepatotoxins; hypercalcemia; hypophysectomy; metastasis; methylated androgens; 6α-methyl, 9α-fluoro, 17-acetoxy, 21-deoxyprednisolone; pituitary hormones; porphyrins; progesterone; therapy evaluation; uracil mustards; uterus neoplasms

CA-03175 GREENBERG, DAVID M., Cancer Res. Inst., Sch. Med., Univ. California, San Francisco, Cal.
amino acid; 1-carbon compounds; neoplasms; antineoplastic agents; enzymes; diagnostic tests

CA-03188 HADDOW, ALEXANDER, Royal Cancer Hosp., London, England
alkylating agents; 3-(p(bis(2-chloroethyl)amino)phenyl)-L-alanine; carcinogenesis; cooperative study; deoxyribonucleic acid replication; immunology; mutations; neoplasms; peptides; thymus; viruses..leukemia viruses

CA-03190 BROWN, GEORGE B., Sloan-Kettering Inst., New York, N.Y.
purine nucleosides; pyrimidine nucleosides; chemical structure--biological activity; synthesis; deoxyribonucleic acid; cell components..ribosomes; reaction sites; proteins; viruses; deoxyribonucleic acid replication; antineoplastic agents; N--oxides; amino sugars; purines

CA-03192 STOCK, CHESTER C., Sloan-Kettering Inst., New York, N.Y.
growth inhibitors; neoplasms; transplantation; antineoplastic agents; enzymes; microorganisms; viruses.. oncogenic viruses; viruses..bacteriophage; neoplastic growth; genetics; enzymes..isoenzymes; ascites tumors; toxicology; leukemia..mouse leukemia L1210; bacteria.. Streptococcus faecalis; bacteria..Diplococcus pneumoniae; drugs resistance; genetics..chromosomes; leukemia..acute leukemia; cancer chemotherapy; research programs

CA-03215 KARNOFSKY, DAVID A., Sloan-Kettering Inst., New York, N.Y.
drugs resistance; antineoplastic agents; cooperative study; hypercalcemia; adrenal cortex hormones; purines; viruses; leukemia; immunity

CA-03287 FRENCH, FREDERIC A., Mount Zion Hosp., Med. Cr., San Francisco, Cal.
antineoplastic agents; synthesis; thiosemicarbazones; polycarbonyl compounds; aldehydes; bis (guanylhydrazones); bis (thiosemicarbazones); heterocyclic compounds; aminoglyoxals; alkoxyglyoxals; naphthopyrimidines

CA-03473 CROSSLEY, MOSES L., Rutgers Univ., New Brunswick, N.J.
antineoplastic agents; chemical structure--biological activity; drugs resistance; ethyleneimines; ethylenephosphoramides; synthesis

CA-03482 COLE, WARREN H., Sch. Med., Univ. Illinois, Chicago, Ill.
antineoplastic agents; Ehrlich ascites carcinoma; immunology..antibodies; liver; neoplastic growth; regeneration; sarcoma 180; stress; therapy evaluation; vaccination

CA-03528 GROTH, DONALD P., Sch. Med., Emory Univ., Atlanta, Ga.
antineoplastic agents; deoxyribose; deoxyribose analogs; neoplasms; nucleic acids; proteins; synthesis; transplantation

CA-03580 FIGGE, FRANK H.J., Sch. Med., Univ. Maryland, Baltimore, Md.
antineoplastic agents; carcinogenesis; contrast media; hematoporphyrin; metalloporphyrins; neoplasms; porphyrins; protoporphyrin; synthesis; toxicology

CA-03717 BAHNER, CARL T., Carson-Newman Col., Jefferson City, Tenn.
antineoplastic agents; synthesis; 4--(4--diethylaminostyryl) quinoline analogs; indenoquinolines

CA-03782 CREECH, OSCAR, Jr., Sch. Med., Tulane Univ., New Orleans, La.
antineoplastic agents; perfusion; neoplasms; hyperthermia; vasoactive agents..vasodilators; hyperbaric oxygenation; immunity..autoimmunity

CA-03887 REGELSON, WILLIAM, Health Research, Inc., Buffalo, N.Y.
polyelectrolytes; ion..anion; polyethylene sulfonate; ethylene maleic anhydride; antineoplastic agents; nucleases..deoxyribonuclease II; phosphomonoesterases.. acid phosphatase; lipases..lipoprotein lipase; neoplasms; carcinogenesis; viruses..polyoma virus; viruses..Friend virus; splenomegaly; esterases

CA-04130 MIHICH, ENRICO, Health Research, Inc., Buffalo, N.Y.
dietary deficiency; pyridoxine; sarcoma 180/B6; toxicology; neoplastic growth; antineoplastic agents; sarcoma 180; cancer chemotherapy; host--neoplasm; methylglyoxal bis(guanylhydrazones)

CA-04143 LYLE, ROBERT E., Grad. Sch., Univ. New Hampshire, Durham, N.H.
antineoplastic agents; 1,4-dihydropyridine; electron donors; NAD analogs; piperidines; pyridine; reduction; synthesis

CA-04175 HAKALA, MAIRE T., Health Research, Inc., Buffalo, N.Y.
purine analogs; pyrimidine analogs; cell culture; culture media; 5--bromo--2'--deoxyuridine; 5--bromouracil; thymine; growth; deoxyribonucleic acid; sarcoma 180; proteins; methotrexate; drugs resistance; hypoxanthine; thymidine; nutrition; oxidoreductases..folic acid reductase; membrane permeability and transport

CA-04249 LIJINSKY, WILLIAM, Chicago Med. Sch., Chicago, Ill. hydrogenation; carcinogens; polycyclic compounds; chemical structure--biological activity; antineoplastic agents; skin neoplasms; carcinogenesis; aromatic compounds

CA-04346 HYMAN, GEORGE A., Col. Phys., Surg., Columbia Univ., New York, N.Y.
retinoblastoma; radiolabeled carbon; 2--bis(2--chloroethyl)amino--2H--1,3,2--oxazaphosphorinane 2--oxide; arterial infusions; arteries..carotid arteries; radiation therapy; genetics..chromosomes; cytology; blood cells.. leukocytes; neoplastic cells; triethylene melamine

CA-04487 BACK, NATHAN, Health Research, Inc., Buffalo, N.Y. oxygen tension; hyperbaric oxygenation; cytotoxicity; alkylating agents; antineoplastic agents; 2--bis (2--chloroethyl) amino--2H--1,3,2--oxazaphosphorinane 2--oxide; AET; cysteine; glutathione; liver

CA-04497 MARTIN, DANIEL S., Jackson Mem. Hosp., Miami, Fla. breast neoplasms; immunity; surgery; antineoplastic agents; adjuvants, immunology; longitudinal study

CA-04679 LERNER, AARON B., Sch. Med., Yale Univ., New Haven, Conn.
melanocytes; bioassay; melanoma; chemical structure; MSH; melanin; phenol oxidases..tyrosinases; thyromel; thyroid gland; β-(3,4-dimethoxyphenyl)-L-alanine; methoxyindoles; ACTH; hypoadrenalism; melatonin; thyroid hormones

CA-04795 KOSAKI, TAKEKAZU, Sch. Med., Mie Prefectural Univ., Tsu, Japan
maligniolipin; immunological tests; neoplastic growth; diagnostic tests; chemical structure; fatty acids; carcinogens; transplantation; immunofluorescence; precipitins; immune sera

CA-04826 MAUER, ALVIN M., Children's Hosp. Res. Fdn., Cincinnati, Ohio
blood cells..leukocytes; blood cells..granulocytes; cell age; children; diisopropylfluorophosphate; leukemia..acute leukemia; radiolabeled phosphorus; tritium

CA-04860 SHINGLETON, WILLIAM W., Duke Univ. Med. Cr., Durham, N.C.
pelvis neoplasms; neoplasms; abdominal viscera; microwave heating; hyperthermia; hypothermia; perfusion; radiolabeled carbon; nitrogen mustards; therapy evaluation

CA-04868 DIETRICH, L.S., Sch. Med., Univ. Miami, Coral Gables, Fla.
sex hormones; diethylstilbestrol; estradiol; testosterone; radiolabeled carbon; cell components; enzymes; vitamin; antivitamins; neoplasms; antineoplastic agents

CA-04869 HOMBURGER, FREDDY, Bio-Research Inst., Cambridge, Mass.
carcinogens; antineoplastic agents; neoplasms; neoplasms transplantation

CA-04919 BATTLE, HOHN D., Jr., Cleveland Clinic Fdn., Cleveland, Ohio
cooperative study; 6-thioguanine; 6-thioguanosine; 6-mercaptopurine; leukemia..acute leukemia; adults; Hodgkin's disease; mechlorethamine; 2-bis(2-chloroethyl)amino-2H-1,3,2-oxazaphosphorinane-2-oxide

(contd)

CHEMOTHERAPY (CONTD)

CA-05031 WEBER, GEORGE, Sch. Med., Indiana Univ., Indianapolis, Ind.
liver; liver neoplasms; enzymes; enzymes feedback; cell-free systems; glucose phosphates; pyruvate; ribonucleic acid

CA-05036 HEALEY, JOHN E., Jr., Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
antineoplastic agents; perfusion; dosage; liver; liver function

CA-05082 UMEZAWA, HAMAO, Sch. Med., Univ. Tokyo, Bunkyo-Ku, Tokyo, Japan
geographical sites..Japan; soil; bacteria; fungi..actinomycetes; fungi..Streptomyces; antibiotics; antineoplastic agents; screening

CA-05085 HATA, TOJU, Kitasato Inst., Tokyo, Japan
screening; antineoplastic agents; antibiotics; fungi.. Streptomyces; microbial culture

CA-05130 McCOY, JOHN R., Rutgers State Univ., New Brunswick, N.J.
neoplasms; antineoplastic agents; nucleases..ribonucleases; aminotransferases..alanine transaminase; aminotransferases..aspartate transaminase; dehydrogenases..lactate dehydrogenases; phosphomonoesterases.. alkaline phosphatase; blood proteins..serum proteins; lipoproteins..serum lipoproteins; glycoproteins; host--neoplasm; nucleic acids; proteins

CA-05136 AMBRUS, CLARA M., Health Research, Inc., Buffalo, N.Y.
growth factors; neoplastic cells; blood coagulation.. fibrin; blood coagulation..fibrinase; blood coagulation..fibrinolysis

CA-05152 SCHULTZ, JULIUS, Hahnemann Med. Col., Philadelphia, Pa.
peroixdases..myeloperoxidase; blood cells..leukocytes; amino acids; blood cells..neutrophil leukocytes; blood disorders; neoplasms; stress; cell components..lysosomes

CA-05170 LIJINSKY, WILLIAM, Chicago Med. Sch., Chicago, Ill.
petroleum oils; polycyclic compounds; hydrocarbons; toxicology; carcinogens

CA-05217 SUMIKI, YUSUKE, Grad. Sch., Inst. Physical, Chemical Res., Komagome, Bunkyo-Ku, Tokyo, Japan
antibiotics; antineoplastic agents; microorganisms; chemical structure--biological activity; microbial culture; taxonomy; synthesis

CA-05246 TERAYAMA, HIROSHI, Univ. Tokyo, Tokyo, Japan
liver neoplasms; carcinogenesis; carcinogens; cell components; proteins; nucleic acids; binding; azo compounds; molecular structure; enzymes; cell components..ribosomes

CA-05284 BRYANT, JOHN H., Col. Med., Univ. Vermont, Burlington, Vt.
drugs resistance; steroids; lymphoma; cortisone; neoplasms transplantation; dosage

CA-05294 SHAW, ELLIOTT N., Tulane Univ., New Orleans, La.
antimetabolites; ribonucleic acid; 5-amino-4-imidazole N-succino-carboxamide ribonucleotide; synthesis; enzymes inhibitors..adenylosuccinase inhibitors

CA-05295 RUTMAN, ROBERT J., Col. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.
ion exchange chromatography; alkylating agents; nitrogen mustards; reaction sites; purine; nucleic acids denaturation; pyrimidine; viscosity; nucleosides; sedimentation constants; deoxyribonucleic acid; molecules..macromolecules; cell components; neoplasms; binding; proteins; ribonucleic acid; counter--current fractionation; density--gradient ultracentrifugation; temperature

CA-05298 WERKHEISER, WILLIAM C., Health Research, Inc., Buffalo, N.Y.
folic acid antagonists; methotrexate; reductases..folic acid reductase; tetrahydrofolic acid; toxicology

CA-05360 ROSE, SAMUEL, Univ. Melbourne, Parkville, Victoria, Australia
tissue culture; cell differentiation; carcinogenesis; mutations; enzymes; deoxyribonucleic acid; transformation; injections..microinjections; instrumentation--methodology; immunology

CA-05367 SOKOLOFF, BORIS, Fla. Southern Col., Lakeland, Fla.
alkaloids; antineoplastic agents; geographical sites.. USSR; plants; polysaccharides; screening

CA-05445 WOODS, LAUREN A., Sch. Med., State Univ. Iowa, Iowa City, Iowa
radioassay; radiolabeled carbon; uracil mustards; prostate; prostate neoplasms; antineoplastic agents; tritium; 4-(p(bis(2-chloroethyl)amino)phenyl)-butyric acid; cell components

CA-05449 DEICHMANN, WILLIAM B., Sch. Med., Univ. Miami, Coral Gables, Fla.
aromatic amines; urinary bladder neoplasms; urine; carcinogens; hydroxylamine; carcinogenesis

CA-05466 BURSTEIN, SHLOMO, Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
adrenal cortex hormones; oxosteroids; genetic strains; 3--methylcholanthrene; carcinogenesis; hydrocortisone; radiolabeled carbon; tritium

CA-05468 SPURR, CHARLES L., Bowman Gray Sch. Med., Winston-Salem, N.C.
plasma cell neoplasms; antineoplastic agents; screening; myeloma, bone marrow..multiple myeloma; deoxyribonucleic acid; proteins; carcinogenesis; foreign body

CA-05480 NEWMAN, MELVIN S., Ohio State Univ., Columbus, Ohio
synthesis; polycyclic compounds; carcinogenesis; carcinogens; chemical structure--biological activity; stereoisomers; fluoro-10-methyl-1,2-benzanthracenes; fluoro-9, 10-dimethyl-1,2-benzanthracenes; periarteritis nodosa; 10-methyl-1,2-benzanthracene; aromatic compounds

CA-05490 IRVING, CHARLES C., Veterans Admin. Hosp., Memphis, Tenn.
carcinogenesis; AAF; N-hydroxy AAF; toxicology

CA-05522 BARDOS, THOMAS J., Sch. Pharm., State Univ. New York, Buffalo, N.Y.
deoxyribonucleic acid; alkylating agents; antimetabolites; neoplasms; neoplastic cells; polymerases; phosphotransferases..ATP; thymidine 5'--phosphotransferases; deoxyribonucleotides; molecules..macromolecules; molecular weight

CA-05622 HOWARD, JOHN M., Hahnemann Med. Col., Philadelphia, Pa.
perfusion; antineoplastic agents; tourniquets; pump oxygenator; methotrexate; nitrogen mustards; thio--TEPA; lymphatic system; thoracic duct

CA-05648 FOUTS, JAMES R., Sch. Med., State Univ. Iowa, Iowa City, Iowa
phenoxybenzamine; enzymes; dihydroergotamine; hepatoma; cell components..microsomes; halogenated hydrocarbons; phenobarbital; glycogen; liver; insecticides; enzyme inhibitors; drugs; 2--diethylaminoethyl--2,2--diphenyl valerate; diabetes

CA-05671 ROSEN, FRED, Hlth. Res., Inc., Buffalo, N.Y.
aminotransferases..alanine transaminase; hydrocortisone; aminotransferases..aspartate transaminase; thymus; deoxycorticosterone; Walker carcinoma 256; lymphosarcoma; adrenal cortex hormones; lymphatic tissue; neoplastic growth

CA-05672 ARONOW, LEWIS, Sch. Med., Stanford Univ., Palo Alto, Cal.
fibroblasts; drugs resistance; 6--mercaptopurine; enzymes; 6--mercaptopurine ribotide; adenine; cytotoxicity; pyrimidine ribosides; vincaleukoblastine; nitrogen mustards; deoxyribonucleic acid; natural products; plants

CA-05689 NADLER, SAMUEL B., Touro Res. Inst., New Orleans, La.
antimetabolites; nucleic acids; antineoplastic agents; leukemia; immunology; purine; neoplasms

CA-05706 WU, RAY, Pub. Hlth. Res. Inst., New York, N.Y.
glycolysis; phosphates; ascites tumors; radiolabeled calcium; radiolabeled phosphorus; hepatoma Novikoff; phosphotransferases..ATP : D--fructose--6--phosphate 1--phosphotransferase

CA-05733 HUGULEY, CHARLES M., Jr., Emory Univ. Sch. Med., Atlanta, Ga.
enzymes; folic acid antagonists; megaloblastic anemia; metabolites; neoplasms; purine; purine analogs; pyrimidine; pyrimidine analogs

CA-05793 ARGUS, MARY F., U.S. Public Hlth. Service Hosp., New Orleans, La.
nitrosamines; sulfhydryls; liver; carcinogenesis; proteins denaturation; enzymes; conformations (chemistry); dioxane

CA-05891 DODSON, RAYMOND M., Univ. Minnesota, Minneapolis, Minn.
carcinogenesis; carcinogens; conjugates; deoxyribonucleic acid; hydrocarbons; microorganisms; mutations; purine; pyrimidine

CA-05944 CALABRESI, PAUL, Sch. Med., Yale Univ., New Haven, Conn.
bone marrow; antineoplastic agents; hematopoietic tissues; immunology; enzymes; metabolites; arterial infusions

CA-05945 SOROF, SAM, Inst. Cancer Res., Philadelphia, Pa.
carcinogenesis; carcinogens; cell components..cell nucleus; conjugates; liver; liver neoplasms; proteins

CA-05949 FISHER, BERNARD, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
antineoplastic agents; blood coagulation..anticoagulants; blood coagulation..plasmin; heparin; liver neoplasms; metastasis; neoplastic cells; perfusion; surgery; therapy evaluation; thrombosis; veins..portal veins; Walker carcinoma 256

CA-05953 WOLBERG, WILLIAM H., Sch. Med., Univ. Wisconsin, Madison, Wis.
nucleosides; amino acid; neoplasms; tritium; antineoplastic agents; screening

CA-05997 FRIEDKIN, MORRIS E., Sch. Med., Tufts Univ., Boston, Mass.
drugs resistance; leukemia; folic acid antagonists; synthesis; screening; methotrexate; aminopterin; reductases..folic acid reductase; tetrahydrofolic acid antagonists; thymidine; methionine; purine; antimetabolites

CA-06028 BEAL, JACK L., Col. Phar., Ohio State Univ., Columbus, Ohio
antineoplastic agents; bioassay; cell culture; medicinal plants..Begonia tuberhybrida; medicinal plants.. Thalictrum; neoplasms

CA-06135 KRISS, JOSEPH P., Sch. Med., Stanford Univ., Palo Alto, Cal.
halogenated thymidines; thymidine analogs; radiation sensitivity; 5--bromo--2'--deoxyuridine; 5--bromodeoxycytidine; 5--iododeoxyuridine; 5--iododeoxycytidine; halopyrimidines; radiation therapy; neoplasms; radiolabeled carbon

CA-06186 **WILLIAMS, ANNA M.**, University Hospital, Madison, Wis.
leukemia; bone marrow; radiolabeled; drugs resistance; triethylene melamine; asictes tumors; cell types; nucleic acids; proteins

CA-06232 **WALLERSTEIN, HARRY**, Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
methotrexate; leukemia..mouse leukemia L1210; neoplastic cells; drugs resistance; reductases..folic acid reductase; tritium

CA-06312 **VOORHESS, MARY L.**, Med. Sch., State Univ. N.Y., Syracuse, N.Y.
catecholamines; children; neoplasms; neuroblastoma

CA-06314 **DAHLGARD, MURIEL G.**, Randolph-Macon Woman's Col., Lynchburg, Va.
synthesis; antineoplastic agents; antimetabolites; ribose; deoxyribose; glycolysis; glucose analogs; hexonic acids; hexose phosphates

CA-06369 **CASANOVA, JOSEPH, Jr.**, Los Angeles State Col., Los Angeles, Cal.
sulfur; carbon; sulfonium compounds; amides; stereochemistry; ionic bonds; Bis(2-chloroethyl) sulfide; hydrolysis

CA-06473 **CARDOSO, SERGIO S.**, Sch. Med., Univ. Sao Paulo, Sao Paulo, Brazil
L5178Y cells; growth inhibitors; triamcinolone acetonide; glucocorticoids; sex hormones; blood cells..lymphoblasts; blood cells..leukocytes; leukemia; radiolabeled carbon; glucose; nucleic acids; amino acid; proteins

CA-06474 **DAVIDSON, IVAN W.F.**, Sch. Med., Wake Forest Col., Winston-Salem, N.C.
6--methylpurine; adenosine triphosphate analogs; antimetabolites; antineoplastic agents; metabolites; neoplasms

CA-06506 **BIJVOET, PAUL**, Univ. Florida Med. Sch., Gainesville, Fla.
antineoplastic agents; deoxyribonucleic acid; deoxyribonucleoproteins; fractionation; genetics.. chromosomes; growth; histones; neoplasms; neoplastic growth; radiolabeled carbon

CA-06522 **HUENNEKENS, FRANK M.**, Sch. Med., Scripps Clin. Fdn., La Jolla, Cal.
folic acid coenzymes; 1-carbon compounds; oxidation; formate; formaldehyde; methyl groups; methotrexate; vitamin B12 coenzymes; leukemia; blood cells..leukocytes; NAD linked enzymes; NADP linked enzymes; aminopterin

CA-06601 **HABIF, DAVID V.**, Col. Phys., Surg., Columbia Univ., New York, N.Y.
acid--base equilibrium; drugs interaction; alkylating agents; hormones; tris (hydroxymethyl) aminomethane; 5,5--dimethyl--2,4--oxazolidinedione; neoplastic growth; Ehrlich ascites carcinoma; sarcoma 180; carcinogenesis; 3--methyl--cholanthrene; tissue respiration; radiolabeled carbon

CA-06643 **MEGIRIAN, ROBERT**, Albany Med. Col., Albany, N.Y.
4-aminopyrazolo-(3,4d)pyrimidine; antineoplastic agents; 4-(p-bis(2-chloroethyl)amino phenyl)-butyric acid; dosage; methotrexate; phagocytosis; reticuloendothelial system

CA-06645 **DANIELLI, JAMES F.**, State Univ. New York Res. Fdn., Buffalo, N.Y.
N'-acyl-N,N-bis(2-chloroethyl)-p-phenylenediamines; antineoplastic agents; N,N-bis(2-chloroethyl)aminobenzene sulfonamido acids; chemical structure--biological activity; enzymes; neoplasms; synthesis

CA-06660 **JAMES, DAVID H.**, St. Jude Hosp., Memphis, Tenn.
antineoplastic agents; cancer chemotherapy; children; neoplasms; radiation therapy; screening; surgery

CA-06668 **McCARTHY, JACK D.**, Lovelace Fdn., Albuquerque, N. Mex.
breast neoplasms; 9,10--dimethyl--1,2--benzanthracene; syrosingopine; prolactin; carcinogenesis inhibitors; antineoplastic agents; 7,12--dimethyl--1,2--benzanthracene

CA-06670 **FISHER, EDWIN R.**, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
antineoplastic agents; carcinoma V-2; 5-fluorouracil; metastasis; nitrogen mustards; perfusion; therapy evaluation; thio-TEPA; transplantation; Walker carcinoma 256

CA-06695 **BARDOS, THOMAS J.**, Sch. Pharm., State Univ. New York, Buffalo, N.Y.
synthesis; antineoplastic agents; deoxyribonucleic acid; antimetabolites; thymine; folic acid antagonists; vitamin B12; drugs interaction

CA-06723 **HRESHCHYSHYN, MYROSLAW M.**, Health Research, Inc., Buffalo, N.Y.
histiocytes; leurocristine; ovary neoplasms; sulfones; p,p'-sulfonyldianiline; thio-TEPA; uterus neoplasms.. cervix neoplasms; vaginal smears

CA-06734 **JACQUEZ, JOHN A.**, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
amino acid; antineoplastic agents; ascites tumors; chemical structure; computer analysis; membrane permeability; neoplastic cells; radiolabeled

CA-06751 **HODGES, CLARENCE V.**, Univ. Oregon Med. Sch., Portland, Ore.
diethylstilbestrol; dosage; perfusion; prostate neoplasms; radiation therapy; radioisotopes..phosphorus 32

CA-06762 **HORWITZ, HARRY**, Cincinnati General Hosp., Cincinnati, Ohio
bronchogenic carcinoma; 4-(p-(bis(2-chlorethyl)amino) phenyl)-butyric acid; longitudinal study; radiation therapy; radioisotopes..cobalt 60

CA-06780 **WRISTON, JOHN C., Jr.**, Univ. Delaware, Newark, Del.
asparagine; antineoplastic agents; amidohydrolases.. asparaginase; blood..serum; neoplasms; bacteria; chemical structure

CA-06787 **EBY, SISTER DENISE**, St. Joseph Col., Emmitsburg, Md.
carcinogenesis; chemical bonds; carcinogens; antineoplastic agents; cell components..cell membranes; membrane permeability and transport; x--rays; ultraviolet rays; radiation effects; glycine; proteins; bacteria.. Escherichia coli; yeasts; spleen; KB cells; HeLa cells

CA-06832 **BRODSKY, ISADORE**, Hahnemann Med. Col. Hosp., Philadelphia, Pa.
chemotherapy; testosterone; hematopoiesis..erythropoiesis; bone marrow; radiolabeled iron; aplastic anemia

CA-06833 **KIDD, JOHN G.**, Sch. Med., Cornell Univ., New York, N.Y.
neoplastic growth; immune sera; antineoplastic agents; immunology..antigen-antibody reactions; lymphosarcoma 6C3HED; azoproteins; methotrexate; 8-azaguanine; azaserine; 6-mercaptopurine; arsenic

CA-06870 **KILGORE, WENDELL W.**, Col. Agr., Univ. California, Davis, Cal.
cell division..mitosis; radiomimetic agents; antineoplastic bacteria..Escherichia coli; azaserine; mitomycin C; 5-diazouracil; radiolabeled carbon; tritium; deoxyribonucleic acid; ribonucleic acid; proteins; bactericides

CA-06923 **RHEINLANDER, HAROLD F.**, New England Cr. Hosp., Boston, Mass.
alkylating agents; arterial infusions; bone marrow; kidney; liver; lung neoplasms; nervous system; nitrogen mustards; perfusion

CA-06933 **NEWTON, WILLIAM A., Jr.**, Children's Hosp., Columbus, Ohio
brain neoplasms; children; injections; meninges; methotrexate; therapy evaluation

CA-06973 **OWENS, ALBERT H., Jr.**, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
research programs; therapy evaluation; antineoplastic agents; bone marrow transplantation; toxicology; iron; immunology; prediction

CA-07019 **GREGORIE, HENRY B., Jr.**, Med. Col. South Carolina, Charleston, S.C.
neoplasms; diagnostic tests; hematoporphyrin; fluorescence

CA-07020 **DIETRICH, L.S.**, Sch. Med., Univ. Miami, Miami, Fla.
antineoplastic agents; carcinophyllin; Ehrlich ascites carcinoma; 1-ethyleneimino-2-hydroxybutene; fractionation; NAD; NAD linked enzymes; neoplastic cells; nitrogen mustards; pyridine nucleotides; triethylene melamine; tritium

CA-07031 **WILEY, ROBERT A.**, Sch. Pharm., Univ. Kansas, Lawrence, Kans.
alkylating agents; antineoplastic agents; chemical structure--biological activity; functional groups; phosphorus mustards; synthesis; toxicology

CA-07056 **WADDELL, WILLIAM J.**, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
hydrogen--ion concentration; 5,5--dimethyl--2,4--oxazolidinedione; Ehrlich ascites carcinoma; hepatoma; cell components..mitochondria; cell components..cell nucleus; cell components..cytoplasm; glycolysis; lactate; pyruvate; radiolabeled carbon; tritium

CA-07071 **DANIELS, FARRINGTON, Jr.**, Cornell Univ. Med. Col., New York, N.Y.
radiation effects; ultraviolet rays; skin; photosensitivity; drugs; fungi..Candida albicans; furocoumarins; carcinogenesis; skin neoplasms; solar radiation

CA-07091 **DEMOPOULOS, HARRY B.**, Sch. Med., Univ. Southern California, Los Angeles, Cal.
tissue respiration; melanoma; tissue culture; phenol oxidases..tyrosinases; enzymes inhibitors; DOPA; glycolysis; bone marrow; cell differentiation; antineoplastic agents; erythropoietin; viruses..oncogenic viruses

CA-07098 **WALLERSTEIN, HARRY**, Jewish Memorial Hosp., New York, N.Y.
antineoplastic agents; azaserine; drugs resistance; glycine; leukemia..mouse leukemia L-1210; 6-mercaptopurine; methotrexate; nucleotides; phosphorylases.. pyrophosphorylases; reductases..folic acid reductase

CA-07108 **BURKE, WILLIAM J.**, Sch. Liberal Arts, Arizona State Univ., Tempe, Ariz.
alkylating agents; antineoplastic agents; benzoxazines; chemical structure--biological activity; synthesis

CA-07122 **WEISS, ARTHUR J.**, Jefferson Med. Col., Philadelphia, Pa.
5-fluorouracil; 5-fluoro-2'-deoxyuridine; thymidine; liver; detoxication; radiolabeled carbon; toxicology; HeLa cells

CA-07131 **REYNOLDS, VERNON H.**, Vanderbilt Univ. Hosp., Nashville, Tenn.
enzymes inhibitors; dehydrogenases..lactate dehydrogenase; antineoplastic agents; oxamic acid; arterial infusion; toxicology; Walker carcinoma 256; primates.. monkeys

CA-07155 **FEINSTEIN, ALVAN R.**, Sch. Med., Yale Univ., New Haven, Conn.
cancer; lung neoplasms; intestinal neoplasms..colon neoplasms; disease classification; medical records; therapy evaluation; diagnostic tests

(contd)

CHEMOTHERAPY (CONTD)

CA-07184 **ROMINGER, C. JULES, Misericordia Hosp., Philadelphia, Pa.**
antineoplastic agents: cancer chemotherapy; dosage; injections; lymphangiography; lymphatic system; thio-TEPA; toxicology

CA-07198 **ELLISON, ROSE R., Roswell Park Mem. Inst., Buffalo, N.Y.**
blood cells..leukocytes; leukemia; drugs resistance; nucleic acids; antimetabolites; antineoplastic agents

CA-07227 **BILLMAN, JOHN H., Grad. Sch., Indiana Univ., Bloomington, Ind.**
antineoplastic agents; chemical structure..biological activity; pyrimidines; synthesis

CA-07228 **MESSINEO, LUIGI, Sch. Med., State Univ. New York, Buffalo, N.Y.**
deoxyribonucleoproteins; blood cells..leukocytes; lymphatic tissue; leukemia; deoxyribonucleic acid; amino acid; sedimentation constants; viscosity; solubility; light scattering; hemagglutination; complement fixation tests; immune sera

CA-07269 **LIJINSKY, WILLIAM, Inst. Medical Res., Chicago, Ill.**
carcinogens; hydrocarbons; polycyclic compounds; metabolites; 7,12-dimethyl-1,2-benzanthracene; benzopyrenes; 20-methylcholanthrene; infants, animals.. newborn; reaction sites

CA-07295 **SLOTNICK, IRVING J., St. Jude Hosp., Memphis, Tenn.**
drugs resistance; actinomycin D; nucleic acids; proteins; binding; antineoplastic agents; bacteria.. Bacillus subtilis; bacteria..Staphylococcus aureus; HeLa cells; ascites tumors

CA-07296 **GRASSETTI, DAVIDE R., Univ. San Francisco, San Francisco, Cal.**
synthesis; antineoplastic agents; pyridine; nicotinamide; glycolysis; chemical structure--biological activity; dehydrogenases..lactic dehydrogenase; enzyme inhibitors; NAD analogs; neoplastic cells

CA-07339 **TSOU, K.C., I.S. Ravdin Inst., Philadelphia, Pa.**
alkylating agents; antineoplastic agents; carbohydrases..glycosidases; dehydrogenases; enzymes substrate; indoles; molecular structure; synthesis; tetrazolium salts; toxicology

CA-07340 **PARKS, ROBERT E., Jr., Grad. Sch., Brown Univ., Providence, R.I.**
coenzyme; purine analogs; pyrimidine analogs; 5--fluorouracil; 6--azauracil; phosphotransferases.. nucleoside phosphates phosphotransferases; acid--thiol ligases..succinate COA ligase (ADP); 6--thioguanine; adenosine; phosphotransferases..ATP: nucleoside-diphosphate phosphotransferase; blood cells..erythrocytes

CA-07341 **TROBAUGH, FRANK E., Jr., Presbyterian-St. Luke's Hosp., Chicago, Ill.**
antineoplastic agents; 2-bis(2-chloroethyl) amino-2H-1,3,2-oxazaphosphorinane 2-oxide; blood proteins..serum proteins; cancer chemotherapy; dosage; myeloma, bone marrow; phenylalanine mustards; toxicology; urethan

CA-07343 **KOFMAN, SYDNEY, Presbyterian-St. Luke's Hosp., Chicago, Ill.**
antineoplastic agents; antibiotics; mithramycin; therapy evaluation; nervous system neoplasms; toxicology

CA-07354 **WRIGHT, JANE C., New York Univ. Med. Cr., N.Y.C.**
actinomycin P2; azotomycin; cancer chemotherapy; dosage; drugs resistance; drugs tolerance; ethyl(bis(2,2-dimethyl-1-aziridyl)phosphinyl)carbamate; HeLa Cells; mithramycin; mitomycin C; nucleic acids; perfusion; research programs; streptonigrin; therapy evaluation; tissue culture; toxicology; tritium; vincaleukoblastine

CA-07369 **CONZELMAN, GAYLORD M., JR., Univ. California, Davis, Cal.**
b-naphthylamine; urinary bladder; primates..monkeys; carcinogenesis; enzymes; exfoliative cytology

CA-07492 **LAZARUS, SYDNEY S., Isaac Albert Res. Inst. of Jewish Chronic Disease Hosp., Brooklyn, N.Y.**
carcinogens; 4--nitroquinoline N--oxide; reaction sites; neoplastic cells; growth inhibitors

CA-07525 **MARTIN, WILLIAM R., Univ. Chicago, Chicago, Ill.**
drugs resistance; antineoplastic agents; growth, microorganisms; bacteria..Escherichia coli; bacteria..Streptococcus faecalis; amino acid analogs; purine analogs; pyrimidine analogs; nucleic acids inhibitors

CA-07574 **MCDONALD, GERALD O., Col. Med., Univ. Illinois, Chicago, Ill.**
deoxyribonucleic acid; thymidine; neoplasms; cytotoxicity; phosphotransferases..ATP:thymidine 5' phosphotransferases; phosphotransferases..DNA nucleotidyl transferase; tritium; therapy evaluation; cancer chemotherapy; Ehrlich ascites carcinoma; leukemia

CA-07580 **SANDERS, AARON P., Sch. Med., Duke Univ., Durham, N.C.**
carcinoma XV-2; membrane permeability and transport; tissue respiration; oxidative phosphorylation; anaerobiosis; proteins; amino acid; deoxyribonucleic acid; ribonucleic acid; nitrogen mustards; 2-bis(2-chloroethyl) amino-2H-1,3,2-oxazaphosphorinane 2-oxide; radiolabeled carbon; tritium

CA-07604 **CLAPP, PAUL, Sloan-Kettering Inst. Cancer Res., N.Y.C.**
cancer chemotherapy; antineoplastic agents; arterial infusions; perfusion; therapy evaluation; surgery; radiation therapy; carcinoma XV-2; oxygen tension; alkylating agents; radioisotopes..yttrium 90; thiosulfate; toxicology; nitrogen mustards; radiation sensitivity

CA-07753 **GABOUREL, JOHN D., Sch. Med., Univ. Oregon, Portland, Ore.**
antineoplastic agents; thymus; hydroxychloroquine; cell components..ribosomes; hydrocortisone; cell components.. polysomes; leukemia..mouse leukemia P--388; proteins; messenger ribonucleic acid; deoxyribonucleic acid; thymidine; cell culture; L--cells

CA-07775 **WILLIAMS, MARTIN W., Col. Pharm., Univ. Arizona, Tucson, Ariz.**
alkylating agents; toxicology; hyperthyroidism; radiation protection; radiomimetic agents; radiation protection drugs; AET; cysteamine; x--rays; neoplastic growth; Sarcoma 180; Walker carcinoma 256; dosage; triiodothyronine

CA-07777 **PINE, MARTIN J., Roswell Park Memorial Inst., Buffalo, N.Y.**
terephthalanilides; antineoplastic agents; antiprotozoal agents; tissue respiration; oxidative phosphorylation; lipids; proteins; protozoa..Crithidia; bacteria..Escherichia coli; leukemia..mouse leukemia L1210; cell--free systems; polyions..polycations; glyoxal bis--(guanyl hydrazine); cell components..mitochondria; hydroxystilbamidine

CA-07859 **WILSON, CHARLES B., Univ. Kentucky Med. Cr., Lexington, Ky.**
neoplasms transplantation; brain neoplasms; tissue culture; antineoplastic agents; therapy evaluation

CA-07860 **KARNOFSKY, DAVID A., Sloan-Kettering Inst. Cancer Res., N.Y.C.**
tissue culture; L-5178y cells; HeLa cells; proteins; ribonucleic acid; deoxyribonucleic acid; antineoplastic agents; radiolabeled carbon; tritium

CA-07949 **LAMBODY, JOHN P., Col. Med., Univ. Nebraska, Omaha, Nebr.**
antineoplastic agents; synthesis; 2--phenylethanol; deoxyribonucleic acid; nucleic acids inhibitors; bacteria.. Escherichia coli

CA-08003 **WAGNER, DONALD E., Grad. Sch., Univ. Pennsylvania, Philadelphia, Pa.**
antineoplastic agents; sarcolysin; bioassay; perfusion; leg; liver; spleen; toxicology; blood..serum

CA-08009 **PARSHLEY, MARY S., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
growth inhibitors; neoplastic growth; connective tissue; ground substance; neoplasms transplantation; enzymes; precipitation; sarcoma 180; fibroblasts; fractionation; tissue culture

CA-08013 **ANIGSTEIN LUDWIK, Univ. Texas Med. Br., Galveston, Texas**
somatotropin; immune sera; antineoplastic agents; sarcoma 180; neoplastic growth; infant animals.. newborn; 5--fluorouracil; neoplasms transplantation; d--glucose; immunology..antigen--antibody reactions; thymus; thymectomy

CA-08061 **NUNGESTER, WALTER J., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
neoplastic growth; growth inhibitors; antineoplastic agents; immune sera; hypoxia; anaphylaxis; endotoxins; bacteria; globulins; membrane permeability and transport; immunology..complement; tritium

CA-08077 **SULLIVAN, ROBERT D., Lahey Clinic Fdn., Boston, Mass.**
liver neoplasms; cancer chemotherapy; instrumentation--methodology; 5--fluoro--2--deoxyuridine; arterial infusions; pulsatile perfusion pump; therapy evaluation; antimetabolites

CA-08114 **JAFFE, JULIAN J., Col. Med., Univ. Vermont, Burlington, Vt.**
growth inhibitors; antineoplastic agents; protozoa.. Trypanosoma cruzi; protozoa..Trypanosoma equiperdum; antibiotics; antimetabolites; chemical structure--biological activity; chemotherapy; trypanosomiasis; enzymes; nucleic acids

CA-08116 **LITTMAN, MAXWELL L., New York City Hlth. Dept., New York, N.Y.**
neoplasms; neoplasms transplantation; dietary deficiency; vitamins; antimetabolites; growth inhibitors

CA-08123 **HERBUT, PETER A., Jefferson Med. Col., Philadelphia, Pa.**
amidohydrolases..asparaginase; antineoplastic agents; lymphosarcoma 6C3HED; viruses..leukemia viruses; leukemia..mouse leukemia, Moloney; Walker carcinoma 256; Jensen's sarcoma; species

CA-08156 **McMICHAEL, HARRISON, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
neoplastic growth; Shope papilloma; lymphatic tissue; spermatozoa; nucleic acids; transplantation immunology; transduction; immunity..isoimmunity

CA-08170 **MENGEL, CHARLES E., Duke Univ. Med. Cr., Durham, N.C.**
hyperbaric oxygenation; blood cells..erythrocytes; oxidation--reduction; lipid peroxides; radiation effects; radiomimetic agents; hemolysis; neoplastic cells; brain damage; lung; surface properties; serotonin

CA-08211 **KRAKOFF, IRWIN H., Sloan-Kettering Inst. Cancer Res., New York, N.Y.**
purines; xanthines; 1 H pyrazolo(3,4--d)pyrimidin--4--ol; leukemia; lymphoma; oxidoreductases.. xanthine oxidase; enzyme inhibitors..oxidase inhibitors; hyperuricemia; uric acid; therapy evaluation

CA-08219 **DAO, THOMAS L., Hlth. Res., Inc., Buffalo, N.Y.**
steroid hormones; conjugates; lactation; breast neoplasms; liver neoplasms; lung neoplasms; bone neoplasms; hydrolysis; sulfatases..steroid sulfatase; steroid glucuronides; radiolabeled sulfur; tritium; reaction sites; cell components

CA-08221 McLAUGHLIN, EDWARD D., Massachusetts Gen. Hosp., Boston, Mass.
growth inhibitors; fractionation; blood..serum; cancer; cell division..mitosis; deoxyribonucleic acid; growth; neoplastic growth

CA-08236 CARTER, CHARLES E., Sch. Med., Western Reserve Univ., Cleveland, Ohio
deoxyribonucleosides analogs; antineoplastic agents; neoplastic growth; cell culture; cell--free systems; chemical structure--biological activity; synthesis; leukemia..mouse leukemia L 5178; nucleosides; deoxycytidine; deoxyuridine; phosphotransferases.. ATP:thymidine 5'--phosphotransferase; hydroxylamines

CA-08260 BURTLE, JEROME G., Col. St. Thomas, St. Paul, Minn.
synthesis; carcinogenesis; cyclic amines; AAF; hydroxamic acid; N--hydroxylation reactions

CA-08290 REICH, EDWARD, Rockefeller Inst., New York, N.Y.
synthesis; nucleosides..unnatural nucleosides; deoxyribonucleosides analogs; antineoplastic agents; virus inhibitors; nucleic acids; stereochemistry; binding; antibiotics..actinomycin; functional groups; peptide templates; thiols

CA-08321 SMITH, SISTER MARIAN J., Col. Saint Elizabeth, Convent Station, N.J.
Walker carcinoma 256; deoxyribonucleic acid; nucleases ..deoxyribonuclease; nucleic acids inhibitors; chemical structure--biological activity

CA-08334 DUNN, LEO J., State Univ. Iowa Hosp., Iowa City, Iowa
uterus..endometrium; uterus neoplasms; uterus hyperplasia; estrogens; glucose; pituitary gland; menopause..postmenopause; diagnostic tests; hysterectomy; progestins

CA-08338 GILFILLAN, ROBERT F., St. Margaret's Hosp., Boston, Mass.
connective tissue; elastin; growth inhibitors; growth factors; antineoplastic agents; cell culture; chemical structure--biological activity; neoplastic cells; genetics.. karyotypes; cell division..mitosis; proteases..elastase; enzyme inhibitors..elastase inhibitors; viruses..oncogenic viruses; viruses..adenoviruses; cell components; viruses.. SV40 virus; viruses..Rous sarcoma virus; viruses..polyoma virus

CA-08348 REED, DONALD J., Radiation Cr., Oregon State Univ., Corvallis, Ore.
methylhydrazines; alkylation; cytotoxicity; antineoplastic agents; enzyme inhibitors.. monoamine oxidase inhibitors; purines; pyrimidines; nucleic acids; proteins

CA-08499 HU, FUNAN, Oregon Regional Primate Res. Cr., Beaverton, Ore.
melanoma; cell types; melanin; immunology; melanocytes; pigmentation disorders; ACTH; skin; hormones; antimitotic agents; cytology; contact dermatitis; poison ivy; immunology ..antigens; MSH

CA-09187 POEL, WILLIAM E., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
bioassay; carcinogens; metabolites; metastasis; hormones; carcinogenesis; asbestos; combustion exhausts; air pollution; antifertility factors; drugs

CA-09815 KURATSUNE, MASANORI, Sch. Med., Kyushu Univ., Fukuoka, Japan
stomach neoplasms; esophagus neoplasms; alcoholic beverages; food; geographical sites..Japan; carcinogens; bioassay; chemical structure--biological activity

GM-11496 SUNSHINE, ABRAHAM, New York Univ. Med. Cr., New York, N.Y.
analgesics; pain; therapy evaluation; statistics; computer analysis

GM-11871 KISLIUK, ROY L., Sch. Med., Tufts Univ., Boston, Mass.
antineoplastic agents; chemical structure--biological activity; folic acid antagonists; folic acid coenzymes; leukemia..mouse leukemia-L 1210; 5-methyltetrahydroaminopterin; pteridines; synthesis

GM-12897 SPOOR, RYK P., Sch. Med., Univ. South Dakota, Vermillion, S.D.
diurnal variation; heart..atrium; perfusion; heart rate; drugs

HE-08668 OATES, JOHN A., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
vasoactive agents..vasodilators; polypeptides; chemical structure--biological activity; kallicrein; blood flow; arteries..coronary arteries; catecholamines; bradykinin; carcinoid; liver neoplasms; kidney

HE-09044 BEEREL, FREDERICK R., Willard Fillmore Res. Inst., Buffalo, N.Y.
adrenal cortex hormones; prednisone; therapy evaluation; pulmonary emphysema; pulmonary function; lung.. alveolus; elasticity; carbon monoxide; gas tensions

HE-09142 SAMBHI, MOHINDER P., Sch. Med., Univ. Southern California, Los Angeles, Cal.
angiotensin; angiotensinase; enzymes; chemical structure--biological activity; chelation; kidney; reaction sites

NB-02592 FORSTER, FRANCIS M., Sch. Med., Univ. Wisconsin, Madison, Wis.
therapy evaluation; chemotherapy; sensory disorders; nervous system disorders; conferences; travel; muscle relaxants..anticonvulsants

CHILD HEALTH AND HUMAN DEVELOPMENT PROGRAM-PROJECT COMMITTEE

HD-00370 WITTSON, CECIL L., Col. Med., Univ. Nebraska, Omaha, Nebr.
clinical research centers; mental retardation

HD-00518 PROPER, ROBERT, Lovelace Fdn., Albuquerque, N. Mex.
aging; longitudinal study; computer analysis; space medicine; criteria; pilots (aviation); sensory mechanisms; nervous system..central nervous system; cardiovascular system; respiratory system; occupational diseases; kidney function; body build

HD-00668 BUSSE, EWALD W., Duke Univ. Med. Cr., Durham, N.C.
research programs; aging; cardiovascular diseases; mental health; nervous system disorders; information exchange; research potential

HD-00670 RING, GORDON C., Sch. Med., Univ. Miami, Coral Gables, Fla.
aging; blood cells..erythrocytes; bone marrow; cell age; cell components..protoplasm; cell components..cytoplasm; regeneration; radiolabeled potassium; enzymes; plants; reproduction; nutrition; research programs

HD-00671 BROOKS, GLIDDEN L., Brown Univ., Providence, R.I.
aging; socioeconomics; geographical sites..Rhode Island; survey; employment

HD-00672 STEELE, J. MURRAY, Goldwater Mem. Hosp., Welfare Island, N.Y.
research programs; aging; deoxyribonucleic acid; liver cells; injury..wound healing; mouth; lipoproteins..serum lipoproteins; lymph; arteries; body composition; collagen; cartilage; blood flow; peripheral vascular system; oxygen consumption; body density; radiolabeled sulfur; cell water

HD-00673 NOYES, ROBERT W., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
research programs; reproduction; spermatozoa motility; fertilization; radiolabeled; pregnancy..implantation; sex hormones; ovulation; uterus..endometrium; oviduct; ovum; spermatozoa; documentation systems

HD-00674 DEMING, QUENTIN B., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
research programs; aging; atherosclerosis; hypertension (systemic); lipids; thrombosis; steroids; liver function; psychophysiology; respiration; socioenvironment; membrane permeability and transport; blood cells..erythrocytes; training; viruses; cancer; proteins; cytology

HD-00718 YERUSHALMY, J., Sch. Pub. Hlth., Univ. California, Berkeley, Cal.
pregnancy; congenital abnormalities; cerebral palsy; nervous system disorders; pregnancy..abortion; infant human; fetus; mortality; children; growth; injuries; genetics; family..parents; cooperative study; longitudinal study

HD-00720 YERUSHALMY, JACOB, Sch. Pub. Hlth., Univ. California, Berkeley, Cal.
blood groups; immunology..antibodies; congenital abnormalities; genetics..chromosomes; ethnic groups.. race; longitudinal study; cooperative study; infant human..newborn; survey; cooperative study

HD-00843 VANDENBERG, STEVEN G., Child Development Unit, Medical-Dental Res. Bldg., Louisville, Ky.
research programs; genetics; behavior; environment; child development; twins; longitudinal study; family; infant human..newborn; children..adolescence; mental retardation; sex difference; psychometrics; biometry; documentation systems

HD-00973 DUNN, LLOYD M., George Peabody Col. for Teachers, Nashville, Tenn.
research programs; mental retardation; cultural deprivation; socioculture; socioenvironment; rehabilitation; geographical sites..United States; family; morbidity; learning; education

HD-01136 DARLEY, JOHN G., Col. Liberal Arts, Univ. Minnesota, Minneapolis, Minn.
research programs; learning; semantics..language; psycholinguistics; child development; sensory disorders; mental retardation; education..curriculum; academic achievement; prediction; teaching; perception; programmed learning

HD-01288 KASS, EDWARD H., Boston City Hosp., Boston, Mass.
research programs; chronic disease; infectious diseases; growth; pregnancy..premature delivery; bacteriuria; cooperative study; child development; cardiovascular diseases; blood pressure; hormones; respiratory diseases; hypertension (systemic); psychological tests; pyelonephritis; endotoxins; immunology..antigen--antibody reactions; serology; body weight; computer analysis; enzymes..isoenzymes

HD-01290 LANDAU, RICHARD L., Univ. Chicago, Chicago, Ill.
hormones; proteins; amino acids; electrolytes; pregnancy; testosterone; reaction sites; testis; prostate; liver; androgens; spermatogenesis; glucagon; progesterone; growth hormones; parathyroid hormone; pituitary gland; calcium; phosphorus; stress; creatine; adrenal cortex hormones; ACTH; angiotensin; diuretics; Addison's disease

LISTING OF GENERAL RESEARCH AREAS

CHILD HEALTH AND HUMAN DEVELOPMENT PROGRAM-PROJECT COMMITTEE (CONTD)

HD-01368 **RIEGEL, KLAUS F., Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.**
research programs: semantics..language; semantics.. grammar; psycholinguistics; cognition; aging; longitudinal study; communication theory; hearing.. auditory discrimination; learning..association learning; speech; speech disorders; computer programming; logic; mathematical models; statistics

HD-01622 **BOGOCH, SAMUEL, Fdn. for Res. on Nervous System, Boston, Mass.**
research programs; child development; mental retardation; mental disorders; cooperative study; longitudinal study; brain; cerebrospinal fluid; proteins; genetics..karyotypes; immunology.. antibodies; autism

CLINICAL RESEARCH CENTERS

FR-00030 **SIDBURY, JAMES B., Jr., Sch. Med., Duke Univ., Durham, N.C.**
endocrine glands; cancer chemotherapy; rheumatic diseases; psychophysiology; neuroendocrine systems

FR-00031 **THORN, GOERGE W., Peter Bent Brigham Hosp., Boston, Mass.**
biochemistry; cardiovascular system; transplantation.. homotransplantation; artificial organs; aging; growth; molecular biology; biology; biomathematics; neuropsychology; neoplastic growth

FR-00032 **FROMMEYER, WALTER B., Jr., Sch. Med., Univ. Alabama, Birmingham, Ala.**
endocrinology; cardiovascular diseases; rheumatic diseases; kidney disorders; electrolytes; gastrointestinal disorders

FR-00033 **CONNOR, THOMAS B., University Hosp., Baltimore, Md.**
immunology; endocrinology; cardiorenal disorders; surgery

FR-00034 **HAMWI, GEORGE J., Sch. Med., Ohio State Univ., Columbus, Ohio**
biochemistry; physiology; metabolic diseases; hematology; cardiovascular system; rheumatic diseases; gastrointestinal system; respiratory disorders; surgery; thoracic surgery; neurosurgery; urinary tract; orthopedics; nutriton; opthalmology; pregnancy; reproductive system; cardiorenal disorders

FR-00035 **TURNER, THOMAS B., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
arthritis..osteoarthritis; blood disorders; blood transfusion; cancer chemotherapy; cardiovascular diseases; cardiovascular surgery; cerebrovascular disorders; clinical research centers; congenital abnormalities; connective tissue diseases; education..medical education; endocrine glands disorders; gastrointestinal disorders; genetics; hypersensitivity; infectious diseases; kidney function; medical research; metabolic diseases; nervous system disorders; pregnancy toxemias and hypertension; renal hypertension; research potential; skin diseases

FR-00036 **KIPNIS, DAVID M., Washington Univ., St. Louis, Mo.**
enzymes; hematology; biochemistry; kidney disorders; cancer chemotherapy; neurology; reproductive system; pregnancy; children; congenital heart disease; psychiatry; orthopedics; thoracic surgery; urinary tract

FR-00037 **HOGNESS, JOHN R., Sch. Med., Univ. Washington, Seattle, Wash.**
clinical research centers; children; surgery; neurosurgery; radiography; orthopedics; diabetes; hematology; lipids; respiration; genetics

FR-00038 **HOLLINGSWORTH, J. WILLIAM, Sch. Med., Yale Univ., New Haven, Conn.**
neurology; biochemistry; liver diseases; skin diseases; respiratory diseases; kidney disorders; electrolytes; gastrointestinal system; hematology; cardiovascular system; surgery; reproductive system; pregnancy; radiography; cancer chemotherapy

FR-00039 **RICHARDSON, ARTHUR P., Sch. Med., Emory Univ., Atlanta, Ga.**
biochemistry; anatomy; pharmacology; cancer chemotherapy; endocrine glands; kidney disorders; heart diseases; skin diseases; psychiatry; children

FR-00040 **WOOD, FRANCIS C., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
tryptophan; family; genetics..chromosomes; proteinuria; hyponatremia; hyperkalemia; antineoplastic agents; kidney disorders; kidney circulation; renal failure; renal rickets; calcium; phosphorus; hyperlipemia; atherosclerosis; porphyria; adrenal cortex hormones; neurosurgery; spinal cord; injuries; malabsorption syndrome; intestinal resection; alkalies; stress; urinary bladder neurogenic; hemodialysis; uremia; congenital abnormalities; mental retardation; myelosis, bone marrow; hypoproteinemia; arthritis..rheumatoid arthritis; acidosis; edema (generalized)

FR-00041 **JEGHERS, HAROLD, Col. Med., Seton Hall Col., Jersey City, N.J.**
radioisotopes; cytology; metabolic diseases; physiology; nutrition; kidney disorders; gastrointestinal system; liver; rheumatic diseases; infectious diseases; cancer chemotherapy; pharmacology; children; hematology; neurology

FR-00042 **HUBBARD, WILLIAM N., Jr., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
arthritis; biochemistry; clinical research centers; endocrine glands; gastrointestinal system; genetics; hearing; hematology; neurology; ophthalmology; orthopedics; physiology; pregnancy; psychiatry; respiration

FR-00043 **EGEBERG, ROGER O., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
clinical research centers; biochemistry; nutrition; pharmacology; toxicology; physiology; hematology; cancer

FR-00044 **ANDERSON, DONALD G., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.**
cancer; lipids; metabolic diseases; neuromuscular disorders; mental retardation; amino acids; arthritis; gastrointestinal surgery; injury..wound healing; blood cells..erythrocytes chronic diseases; gastrointestinal motility

FR-00045 **DOWLING, HARRY F., Sch. Med., Univ. Illinois, Chicago, Ill.**
microorganisms; antibiotics; therapy; germ--free; infectious diseases

FR-00046 **TAYLOR, ISAAC, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
heart diseases; infectious diseases; skin diseases; gastrointestinal disorders; hematology; metabolic diseases; neurology; reproductive system; pregnancy; children; psychiatry; surgery; anesthetics; pulmonary heart disease; orthopedics

FR-00047 **DEITRICK, JOHN E., Sch. Med., Cornell Univ., New York, N.Y.**
bone disorders; children; infectious diseases; cardiovascular diseases; heart failure..congestive heart failure; genetics; hematology; biochemistry; endocrine glands; gastrointestinal system; kidney disorders; surgery; metabolic diseases; cancer chemotherapy; pregnancy; reproductive system; psychiatry

FR-00048 **YOUNG, RICHARD H., Passavant Memorial Hosp., Chicago, Ill.**
clinical research centers

FR-00050 **KOGEL, MARCUS D., Albert Einstein Col. Med., Bronx, N.Y.**
clinical research centers; metabolic diseases; congenital abnormalities; genetics; cardiovascular diseases; diabetes; blood coagulation; thyroiditis; kidney disorders; arthritis..rheumatoid arthritis; hemolytic anemia; brain disorders; mental disorders; surgery..postoperative; collagen diseases; radiation protection; children; pregnancy; osteoporosis; anesthesia; liver diseases; hypertension (systemic) prostate hypertrophy; hepatolenticular degeneration; obesity; growth hormones

FR-00051 **JENKINS, DALTON, Sch. Med., Univ. Colorado, Denver, Colo.**
clinical research centers

FR-00052 **TURNER, THOMAS B., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
clinical research centers; children; growth; metabolic diseases; cardiovascular surgery; genetics; congenital abnormalities; steroid hormones; pulmonary function; hyaline membrane disease, pulmonary; asthma; pancreatic cystic fibrosis; heart diseases; hematology; infant human..newborn; cancer chemotherapy; autism; infectious diseases; nervous system disorders; bilirubin; epilepsy

FR-00053 **CHERKASKY, MARTIN, Montefiore Hosp., New York, N.Y.**
clinical research centers; cancer; psychiatry; nervous system disorders; surgery; metabolic diseases

FR-00054 **ASTWOOD, EDWIN B., New England Center Hosp., Boston, Mass.**
clinical research centers

FR-00056 **MYERS, JACK D., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
clinical research centers; metabolic diseases; surgery; children; pregnancy; nutrition; occupational diseases

FR-00057 **DEISS, WILLIAM P., Jr., Indiana Univ. Res. Div., Bloomington, Ind.**
endocrine glands; neurology; pulmonary heart disease; kidney function; electrolytes

FR-00058 **ENGSTROM, WILLIAM W., Milwaukee County Hosp., Milwaukee, Wis.**
clinical research centers; metabolic diseases; acid-base equilibrium; liver diseases; thyroid gland disorders; diabetes; cerebrovascular disorders; anemia; lung disease; renal failure; hypertension (systemic); gastrointestinal surgery; endocrine glands; pancreatitis; cancer chemotherapy

FR-00060 **ROSE, JOHN C., Sch. Med., Georgetown Univ., Washington, D.C.**
clinical research centers

FR-00061 **GREENBERG, WAYNE V., Med. Col. Georgia, Augusta, Ga.**
clinical research centers; metabolic diseases; genetics; atherosclerosis; hypertension (systemic); leukemia; pregnancy toxemias and hypertension; endocrine glands disorders; nephrosis

FR-00062 **RILEY, HARRIS D., Jr., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.**
children; blood coagulation; surgery; anesthesia; genetics; congenital heart disease; clinical research centers

FR-00063 **NIGAGLIONI, ADAN, Sch. Med., Univ. Puerto Rico, San Juan, P.R.**
clinical research centers

FR-00065 **HARLAN, WILLIAM R., Med. Col. Virginia, Richmond, Va.**
endocrine glands; surgery; immunology; cancer; neurology; kidney disorders; respiration; blood disorders; heart diseases; cerebrovascular disorders; skin; blood coagulation

FR-00066 **KOGEL, MARCUS, Albert Einstein Sch. Med., Yeshiva Univ., New York, N.Y.**
cardiovascular system; surgery; metabolic diseases; respiration; gastrointestinal surgery; kidney function; cancer; liver function; radioisotopes; anesthesia; shock; injury..burns

FR-00067 **MILLER, C. ARDEN, Univ. Kansas Med. Cr., Kansas City, Kans.**
body composition; infant human; obesity; diabetes; uremia; liver diseases; kidney disorders; hematopoiesis ..erythropoiesis; steroids; ovary; radiation effects; cancer; gastrointestinal system; insulin; clinical research centers

FR-00068 **KNOWLES, HARVEY C., Jr., Cincinnati Gen. Hosp., Cincinnati, Ohio**
nutrition; metabolic diseases; hematology; heart diseases; pharmacology; cancer; psychiatry; radioisotopes

FR-00069 **KEMPE, C. HENRY, Med. Cr., Univ. Colorado, Denver, Colo.**
metabolic diseases; children; neurology; respiration; hypoglycemia

FR-00070 **RAFFEL, SIDNEY, Sch. Med., Stanford Univ., Palo Alto, Cal.**
cardiovascular surgery; cancer; gastritis; pernicious anemia; lupus erythematosus..systemic lupus erythematosus; catecholamines; adrenergic receptors

FR-00071 **STEINBERG, MARTIN R., Mount Sinai Hosp., New York, N.Y.**
clinical research centers; kidney disorders; kidney function; pulmonary function; liver diseases; hypertension (systemic); ear surgery; metabolic diseases; thyroid gland disorders; gastrointestinal disorders; sex differentiation abnormalities; longitudinal study; twins; heart diseases; atherosclerosis; iron; blood disorders; blood coagulation; nervous system disorders; cerebrovascular disorders; extracorporeal circulation; mental disorders; amino acids

FR-00072 **SODEMAN, WILLIAM A., Jefferson Med. Col. Hosp., Philadelphia, Pa.**
endocrine glands; cancer; kidney function; blood disorders; neurology; surgery; cardiovascular system; pathology; occupational diseases; metabolic diseases; blood pressure; cardiovascular diseases; gastrointestinal system; transplantation..homotransplantation

FR-00073 **BLOCKER, TRUMAN G., Jr., Sch. Med., Univ. Texas, Galveston, Tex.**
blood disorders; kidney disorders; cardiovascular system; nutrition; endocrine glands disorders; immunology; respiratory diseases; anatomy; pathology; neoplasms; surgery; pregnancy; reproductive system; children; infectious diseases; physiology; pharmacology

FR-00074 **WHITTEN, CHARLES F., Children's Hosp. of Michigan, Detroit, Michigan**
blood disorders; bronchilitis obliterans; children; clinical research centers; congenital heart disease..septal defect; cretinism; electroencephalography; growth; headache.. migraine; heart surgery; hypoglycemia; infants, human.. newborn; infants, human..premature infants; intestinal absorption; Listeria infections; myocarditis; pancreatic cystic fibrosis; poisoning; radiography; renal hypertension; salicylism; urinary tract disorders

FR-00075 **FINLAND, MAXWELL, Thorndike Mem. Lab., Boston, Mass.**
cardiovascular system; endocrine glands disorders; hematology; infectious diseases; liver diseases; nutrition; surgery; neurology; bacteriology; diabetes; metabolic diseases

FR-00077 **YAFFE, SUMNER J., Univ. Buffalo, Buffalo, N.Y.**
children; infectious diseases; kidney disorders; surgery; biochemistry; metabolic diseases; biophysics; physiology; neurosurgery; child development; pharmacology; infant human..newborn; infant human..premature infants; chronic disease; mental health; behavior

FR-00078 **GRAHAM, BRUCE D., Children's Hospital, Columbus, Ohio**
children; endocrine glands; sex differentiation abnormalities; kidney disorders; adrenal glands disorders; respiration; infants, human..newborn; salicylism; pancreatic cystic fibrosis; cancer chemotherapy; blood disorders; hospitals infections; immunology; infectious diseases; heart surgery; congenital heart disease; congenital abnormalities; injury..burns; child development; pregnancy toxemias and hypertension; nervous system disorders; behavior; children..adolescence; psychology; poisoning; bilirubin; organic acids; body fluids

FR-00079 **FORSHAM, PETER H., Sch. Med., Univ. California, San Francisco, Cal.**
cardiovascular system; endocrine glands; metabolic diseases; genetics; rheumatic diseases; pregnancy; child development; diabetes

FR-00080 **BOND, DOUGLAS D., Univ. Hosp., Cleveland, Ohio**
surgery; nutrition; osteoporosis; breast neoplasms; diabetes; cholesterol; insulin; neoplasms; hypoglycemia; cancer chemotherapy; muscular diseases; growth hormones; diabetes lipoatrophic; tolbutamide; androsterone; lipids..serum lipids; hydrocortisone; hyperparathyroidism; hypoparathyroidism; radiolabeled calcium; hypophysectomy; diabetic retinopathy; radioisotopes..yttrium 90; immunity..autoimmunity; hysteria; purpura; hypnosis; aldosterone; muscular dystrophy; arthritis..rheumatoid arthritis; viruses; interferon; leukemia; splenomegaly; hemodialysis; kidney disorders; steroid spirolactones; liver cirrhosis; azotemia; starvation; injuries..wound healing; urinary calculi

FR-00081 **KRETCHMER, NORMAN, Stanford Univ., Stanford, Cal.**
infant human..premature infants; environment; immunology; growth; kidney function; child development; heart function; pulmonary function; clinical research centers

FR-00082 **THOMAS, WILLIAM C., Sch. Med., Univ. Florida, Gainesville, Fla.**
urinary calculi; edema (generalized); kidney function; diabetes; hyperkalemia; aldosterone; nervous system disorders; aromatic acids; renal failure; electrolytes; blood--brain barrier; tissue respiration; pulmonary granuloma; surgery; hemophilia; heart..myocardium; heart diseases; neuromuscular disorders; gastroesophageal reflux; bone disorders; bile acids and salts; hyperoxia; lung disease; diuretics; psychiatry; infant human; immunology; cystinosis; dehydration (body fluids); lipochondrodystrophy

FR-00083 **REINHARDT, WILLIAM O., Sch. Med., Univ. California, San Francisco, Cal.**
blood coagulation; endocrine glands disorders; alcoholism; shock; hematology; metabolic diseases; radiation effects

FR-00084 **GAFFNEY, PAUL C., Children's Hosp., Pittsburgh, Pa.**
children; metabolic diseases; blood disorders; endocrine glands disorders; immunology; surgery

FR-00086 **WARD, ROBERT, Childrens Hosp., Los Angeles, Cal.**
clinical research centers; children; metabolic diseases; congenital abnormalities; genetics; endocrine glands; blood disorders; kidney disorders; gastrointestinal surgery; nervous system neoplasms

FR-00087 **TEREE, THOMAS M., Sch. Med., Univ. Hospitals, Cleveland, Ohio**
clinical research centers; children

FR-00088 **SCRIMSHAW, NEVIN S., Massachusetts Inst. Tech., Cambridge, Mass.**
nutrition; aging; cancer; neuropsychology; industrial medicine; radiation therapy; stress; performance; scintillation counters..whole body scintillation counter; host-neoplasm; brain damage; beryllicsis; lead poisoning; amino acid; heart function; radioisotopes..cesium 137; radioisotopes.. potassium 40; radioisotopes..radium; radioisotopes.. strontium 90

FR-00094 **WIGGERS, HAROLD C., Albany Med. Col., Union Univ., Albany, N.Y.**
clinical research centers; hypercholesteremia; diet; coronary diseases; diabetes; congenital heart disease; heart surgery; hepatic coma; hemodialysis; uremia; nervous system disorders; cancer; trace elements; cancer chemotherapy; lung diseases; pulmonary circulation; pancreatitis; liver cirrhosis; hypothermia; progesterone; epilepsy

FR-00095 **NEWMAN, ELLIOT V., Sch. Med., Vanderbilt Univ., Nashville, Tennessee**
ACTH; blood cells..thrombocytes; breast neoplasms; carcinoma; cardiovascular surgery; clinical research centers; electrolytes; glucose tolerance; hemoglobinuria.. paroxysmal nocturnal hemoglobinuria; iron; kidney disorders; metabolic diseases; mongolism; penicillin; penicillinase; pregnancy; pulmonary diffusion; steroids; thrombocytopenia; trauma; vascular disorders

FR-00096 **MULHOLLAND, JOHN N., New York Univ. Med. Cr., N.Y.C.**
blood coagulation..plasmin; blood disorders; cardiovascular diseases; cartilage; clinical research centers; electrolytes; genetics; lipids; mucopolysaccharides; narcotics; pregnancy placenta; proteases..papain; renal hypertension; rheumatic diseases; streptokinase; therapy; transplantation; vitamin A

FR-00102 **McCARTY, MACLYN, Rockefeller Inst., New York, N.Y.**
metabolic diseases; lipids; obesity; intestinal absorption; endocrine glands disorders; growth; osteoporosis; congenital abnormalities; genetics..chromosomes; lipochondrodystrophy; hepatolenticular degeneration; bacteria.. enterobacteria; infant human..newborn; penicillin; sarcoidosis; arthritis..rheumatoid arthritis; rheumatic fever; immunology; lupus erythematosus; drugs addiction; morphine; alkaloids

FR-00103 **GELLIS, SYDNEY S., Boston City Hosp., Boston, Mass.**
children; diet; genetics; electrolytes; carbohydrates; muscles; potentials..membrane potentials; diabetes; congenital abnormalities; hyperplasia

FR-00107 **KOLBE, HENRY W., Philadelphia Gen. Hosp., Philadelphia, Pa.**
cardiovascular diseases; cerebrovascular disorders; blood coagulation; shock; gastrointestinal disorders; diabetes; collagen diseases; lung disease; pregnancy; infant human; nutrition; hyaline membrane disease, pulmonary; leukemia; liver diseases; gastrointestinal surgery

FR-00109 **SLATER, ROBERT J., Univ. Vermont, Burlington, Vt.**
cardiovascular diseases; electrocardiography; respiration; blood disorders; arthritis..rheumatoid arthritis; pregnancy toxemias and hypertension; diabetes; steroid hormones; blood coagulation; cancer; metastasis; brain disorders; atherosclerosis

FR-00123 **PRATT, EDWARD L., Children's Hosp. Res. Fdn., Cincinnati, Ohio**
children; congenital abnormalities; mental retardation; metabolic diseases; immunology; cardiovascular diseases; leukemia; skin diseases; nervous system disorders; endocrine glands disorders; computer

(contd)

LISTING OF GENERAL RESEARCH AREAS

CLINICAL RESEARCH CENTERS (CONTD)

FR-00125 **COOK, CHARLES D., Sch. Med., Yale Univ., New Haven, Conn.**
children; cardiovascular diseases; pulmonary function; growth; dehydration (body fluids); cancer chemotherapy; rheumatic diseases; immunology; metabolic diseases; lung disease; clinical research centers

FR-00128 **CRIGLER, JOHN F., Jr., Children's Hosp. Med. Cr., Boston, Mass.**
clinical research centers; children; metabolic diseases; cardiovascular diseases; genetics; cancer; kidney disorders; endocrine glands disorders

FR-00129 **OLSON, STANLEY W., Texas Med. Cr., Houston, Tex.**
clinical research centers; chronic disease; nervous system disorders; neuromuscular disorders; cardiovascular diseases; arthritis; congenital abnormalities; patient care; rehabilitation

FR-00133 **PETERSDORF, ROBERT G., King County Hospital System, Seattle, Wash.**
clinical research centers; infectious diseases; endocrine glands disorders; metabolic diseases; gastrointestinal disorders; cardiovascular diseases; kidney disorders; cancer; brain disorders

FR-00134 **OLSON, STANLEY W., Col. Med., Baylor Univ., Houston, Tex.**
clinical research centers; metabolic diseases; cardiovascular diseases; cancer chemotherapy; transplantation..organ transplantation

FR-00158 **PELLEGRINO, EDMUND D., Univ. Kentucky Med. Cr., Lexington, Ky.**
clinical research centers; education..medical education; bone disorders; water-electrolyte balance; cardiovascular diseases; metabolic diseases; congenital abnormalities; gastrointestinal disorders; children; pregnancy; neoplasia; radiation effects; immunology; kidney function; obesity

FR-00188 **BLATTNER, RUSSELL J., Col. Med., Baylor Univ., Houston, Tex.**
clinical research centers; children; infants; cardiovascular diseases; congenital abnormalities; infectious diseases; metabolic diseases; kidney disorders; endocrine glands; drugs hypersensitivity; injury, burns

FR-00199 **LAWSON, ROBERT B., Children's Mem. Hosp., Chicago, Ill.**
clinical research centers; children; metabolic diseases; endocrine glands disorders; cancer; cardiovascular diseases; behavioral adjustment; infectious diseases

FR-00210 **ROBBINS, FREDERICK C., Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio**
clinical research centers; pregnanc..perinatal; immunology; infectious diseases; cardiovascular diseases; genetics; nervous system; diabetes; kidney function

FR-00211 **CALLISON, MASTON K., Col. Med., Univ. Tennessee, Memphis, Tenn.**
clinical research centers; metabolic diseases; pregnancy toxemias and hypertension; infectious diseases; endocrine glands disorders; cardiovascular diseases; malnutrition; immunology

FR-00229 **JACOBSEN, CARLYLE F., Upstate Med. Cr., State Univ. of New York, Syracuse, N.Y.**
clinical research centers; metabolic diseases; nutrition

FR-00238 **MELLINKOFF, SHERMAN M., Sch. Med., Univ. California, Los Angeles, Cal.**
clinical research centers; leukemia; myeloma, bone marrow..multiple myeloma; cancer chemotherapy; histamine; hypersensitivity; asthma; adrenal glands; urticaria pigmentosa; fatty acids; growth hormones; acromegaly; mental retardation; children; insulin; blood cells; chelating agents; gold; iron; hemochromatosis; pancreatic disorders; calcium; bone disorders; kidney disorders; arthritis.. rheumatoid arthritis; kidney..artificial kidney; urinary tract disorders; pregnancy..postpartum; kidney transplantation; myocardial ischemia and hypoxia; blood vessels shunts..portacaval shunt; antimicrobial agents; skin disorders; catecholamines; thyroid function; thirst; vasopressin; collagen disorders; connective tissue disorders; muscular dystrophy; electrolytes; muscular disorders; neuromuscular disorders; physical therapy; proteins; nutrition; proteinuria; survey; menstruation disorders; obesity; nervous system transplantation; blood vessels restoration; surgery; plastics; injuries..burns

FR-00240 **BONGIOVANNI, ALFRED M., Childrens Hosp., Philadelphia, Pa.**
clinical research centers; children; infant human; metabolic diseases

FR-00262 **GRACE, JAMES T., Health Research, Inc., Buffalo, N.Y.**
clinical research centers; proteins; nucleic acids; ribonucleic acid; chemotherapy; injuries..surgical wounds; purines; pyrimidines; immunology; transplantation; adrenal glands; steroids; synthesis; silicon; antineoplastic agents; cell culture; cell differentiation; blood cells..myeloblasts; pain; drugs interaction; analgesics; tranquilizers; stimulants; hemorrhagic disorders; blood coagulation ..fibrinolysis; enzymes; thromboembolism; cerebrovascular occlusions and thrombosis; 6--mercaptopurine; hormones; blood coagulation..urokinase; therapy evaluation; embryo; host--virus; neoplastic cells; animals..monkeys

COMMITTEE ON INTERNATIONAL CENTERS

TW-00141 **BANG, FREDERIK B., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.**
international centers; tropical medicine; infectious diseases; zoonoses; geographical sites..Asia

TW-00142 **McCRUMB, FRED R., Jr., Sch. Med., Univ. Maryland, Baltimore, Md.**
international centers; tropical medicine; geographical sites.. Asia; infectious diseases; arthropods; epidemiology; nutrition; cooperative study

TW-00143 **PATERSON, J.C.S., Sch. Med., Tulane Univ., New Orleans, La.**
international centers; ecology, animal; geographical sites.. Latin America; tropical medicine; parasitic diseases; mycoses; inland fresh waters; water pollution; bacterial diseases; virus diseases; children; infant human..newborn; nutrition; tetanus toxoid; dental structure

TW-00144 **AUDY, J. RALPH, Sch. Med., Univ. California, San Francisco, Cal.**
international centers; tropical medicine; geographical sites..Asia; population dynamics, human; socioculture; cooperative study; training

TW-00146 **WEAVER, JOHN C., Ohio State Univ. Res. Fdn., Columbus, Ohio**
survey; preventive medicine; insects control; medical services; geographical sites..Africa

TW-00148 **FRYE, WILLIAM W., Sch. Med., Louisiana State Univ., Baton Rouge, La.**
international centers; tropical medicine; parasitic diseases; bacterial diseases; virus diseases; cancer; vascular disorders; geographical sites..Latin America

COMMUNICATIVE DISORDER RESEARCH TRAINING COMMITTEE

NB-04029 **PARKER, CHARLES D., Col. Arts, Sci., Montana State Univ., Missoula, Mont.**
tranquilizers; hearing..auditory discrimination; deafness..sound trauma deafness; rehabilitation; education

NB-04099 **ALFORD, BOBBY R., Col. Med., Baylor Univ., Houston, Tex.**
ear..cochlea; nervous system..auditory nerve; brain.. auditory cortex; electrophysiology; deafness; congenital abnormalities

COMMUNICATIVE SCIENCES

AI-02277 **SENTURIA, BEN H., Sch. Med., Washington Univ., St. Louis, Mo.**
bacteria..Pseudomonas aeruginosa; ear..external ear; immunological tests; immunology..antibodies; neomycin; otitis externa; polymyxin B; regeneration; skin; therapy evaluation

CD-00012 **JORDAN, RAYMOND E., Grad. Sch., Univ. Pittsburgh, Pittsburgh, Pa.**
deafness; children; survey; rehabilitation; audiometry; hearing

DE-01984 **BLOOMER, HENRY HARLAN, Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.**
adults; children; dental occlusion; jaw movements; oral-facial anomalies; speech disorders; swallowing

DE-02002 **WARREN, DONALD W., Sch. Dent., Univ. North Carolina, Chapel Hill, N.C.**
palatopharyngeal anomalies; cleft palate; speech; pneumoanemometer; instrumentation--methodology

DE-02004 **SHELTON, RALPH L., Jr., Univ. Kansas Med. Cr., Kansas City, Kan.**
cleft palate; dental prosthesis; oral-facial surgery; speech disorders; therapy evaluation; training

DE-02009 **STARK, RICHARD B., St. Luke's Hosp., New York, N.Y.**
speech; speech disorders; cleft palate; oral--facial surgery; criteria; therapy; age

HD-00163 **BZOCH, KENNETH R., Teaching Hosp. and Clinics, Univ. Florida, Gainesville, Fla.**
palatopharyngeal anomalies; speech; cinefluorography; spectrometry; posture

HD-00182 **LIND, JOHN, Wenner-Gren Res. Lab., Stockholm, Sweden**
infant human; oral-facial anomalies; respiration; swallowing; vocalization; contrast media; feeding

HD-00715 **WALDON, EDGAR F., Grad. Sch. Arts, Sci., Catholic Univ. America, Washington, D.C.**
children; handicapped children; mental retardation; brain damage; hearing tests

HD-00732 **EISENBERG, RITA B., St. Joseph Hosp., Lancaster, Pa.**
infant human..newborn; age; behavior; audiostimulus

HE-06084 **OGURA, JOSEPH H., McMillan Hosp., St. Louis, Mo.**
pulmonary function; pulmonary ventilation; pulmonary airway resistance

MH-04664 **FRIEDHOFF, ARNOLD J., Sch. Med., New York Univ., New York, N.Y.**
vocalization; electronic recording; psychiatric patients; nervous system disorders; emotional reactions

MH-06281 **EDWARDS, ALLAN E., Wadsworth Hosp., Los Angeles, Cal.**
teaching machine; instrumentation; aphasia; rehabilitation

MH-07112 BURK, KENNETH W., Purdue Research Fdn., Purdue Univ., Lafayette, Ind.
vocalization; mental disorders; psychiatric patients; electronic recording; statistics

MH-07622 MARK, HENRY J., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
instrumentation; hearing tests; diagnostic tests; perception; semantics..language; communicative disorders; mental disorders; computer analysis; computer printing; computer programming

MH-03743 SIEGEL, GERALD M., Col. Liberal Studies, Univ. Minnesota, Minneapolis, Minn.
verbal behavior; speech disorders; rewards and non-rewards; electroshock; reinforcement; conditioning.. operant conditioning; adults

NB-00045 TUNTURI, ARCHIE R., Sch. Med., Univ. Oregon, Portland, Ore.
brain..auditory cortex; brain oscillography; communication theory; computer analysis; ear; statistics

NB-00269 LINDSAY, JOHN R., Univ. Chicago, Chicago, Ill.
blood flow; ear..cochlea; ear..cochlear microphonics; hyperthermia; carbon dioxide tension; oxygen tension; blood pressure

NB-00286 SCHNEIDER, ROBERT A., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
odors; perception; threshold; sensory mechanisms; butane; mucous membrane; nose; habituation; sensory deprivation; centrally acting drugs; conditioning; hunger; visual stimulus; audiostimulus; pleasure-displeasure; nervous system.. sympathetic nervous system; nervous system..trigeminal nerve

NB-00682 FERNANDEZ, CESAR, Sch. Med., Univ. Chicago, Chicago, Ill.
potentials; ear..cochlear microphonics; ear..organ of Corti; inner ear disorders; antibiotics; hypoxia; hypothermia; genetic strains

NB-00896 WOOLSEY, CLINTON N., Sch. Med., Univ. Wisconsin, Madison, Wis.
audiostimulus; behavior; brain..auditory cortex; brain.. cochlear nucleus; brain..colliculus inferior; brain.. geniculate body medial; brain..olivary body; brain lesions; brain mapping; computer analysis; electrophysiology; radiation effects; single cell analysis

NB-00966 SMITH, CATHERINE A., Sch. Med., Washington Univ., St. Louis, Mo.
ear..cochlea; nerve endings; nerves degeneration; ear.. vestibular apparatus; streptomycin; primates..monkeys; deafness..sound trauma deafness

NB-00969 SENTURIA, BEN H., Sch. Med., Washington Univ., St. Louis, Mo.
bone..temporal bone; carbohydrates; ear..middle ear; middle ear disorders; otosclerosis

NB-01083 BEIDLER, LLOYD M., Grad. Sch., Florida State Univ., Tallahassee, Fla.
brain..olfactory bulb; nervous system..trigeminal nerve; potentials; odors; discrimination

NB-01310 CARHART, RAYMOND T., Northwestern Univ., Evanston, Ill.
ear disorders; hearing tests; electrophysiology; diagnostic tests; hearing; brain lesions

NB-01330 FERNANDEZ, CESAR, Univ. Chicago, Chicago, Ill.
vestibular reflex; habituation; caloric stimulation; nystagmus; brain lesions; brain..cerebellum; brain..subcortical structures; eye movement; anesthesia; tranquilizers; electroshock; electronystagmography; ear..vestibular apparatus; brain..vestibular nucleus; electrodes

NB-01344 ROSENBLITH, WALTER A., Mass. Eye, Ear Inf., Boston, Mass.
ear..cochlear microphonics; electrophysiology; potentials; single cell analysis; hearing; nervous system..auditory nerve; brain..cochlear nucleus; coding; audiostimulus; ear surgery; brain..auditory cortex; computer; ear..cochlear fluid dynamics

NB-01639 CAMPBELL, CLARENCE J., Sch. Med., Dartmouth Col., Hanover, N.H.
larynx; lip; voice; trachea; lung; sound impedance; species

NB-01647 MARTINEZ, DANIEL M., Veterans Admin. Hosp., Dallas, Tex.
anaphylaxis; cerebrospinal fluid pressure; ear..endolymphatic pressure; ear..perilymphatic pressure; ear.. inner ear; potentials; ear..cochlea; ear..cochlear microphonics; primates..monkeys

NB-01711 TOROK, NICHOLAS, Univ. Illinois, Chicago, Ill.
photoelectric nystagmography; interopulsion; computer simulation; nystagmus; inner ear disorders; ear.. vestibular apparatus; diagnostic tests; vestibular reflex; spinal reflex; computer analysis

NB-01791 COVELL, WALTER P., Sch. Med., Washington Univ., St. Louis, Mo.
bone..temporal bone; ear; otosclerosis

NB-01829 BORDLEY, JOHN E., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
brain lesions; conditioning; ear..cochlear microphonics; hearing; instrumentation; nervous system..auditory nerve; potentials..action potentials; primates..monkeys

NB-01832 DALY, JOHN F., New York Univ. Med. Cr., New York, N.Y.
inner ear disorders; bone..temporal bone; audiometry

NB-01833 DALY, JOHN F., New York Univ. Med. Cr., N.Y.C.
antibiotics; diagnostic tests; ear..vestibular apparatus; Meniere's syndrome; nervous system disorders; nervous system neoplasms; otitis media

NB-01899 IRWIN, ORVIS C., Wichita Univ., Wichita, Kansas
age; cerebral palsy; children; psychometrics; speech

NB-01908 REGER, SCOTT N., Sch. Med., State Univ. Iowa, Iowa City, Iowa
presbycusis; auditory threshold; hearing..auditory discrimination; auditory fatigue; hearing tests; tachistoscope; visual perception; hearing aids

NB-02035 HARBERT, FRED, Jefferson Med. Col., Philadelphia, Pa.
deafness; ear disorders; audiometry; sound

NB-02161 THOMPSON, RICHARD F., Sch. Med., Univ. Oregon, Portland, Oregon
brain..association cortex; brain..auditory cortex; brain..thalamus; brain lesions; conditioning; electrophysiology; hearing..auditory discrimination; learning.. association learning; primates..monkeys

NB-02167 SIMMONS, F. BLAIR, Grad. Sch., Stanford Univ., Stanford, Cal.
auditory reflex; brain; conditioning..operant conditioning; deafness..sound trauma deafness; ear..cochlear microphonics; electromyography; hearing tests; potentials

NB-02182 NAGER, GEORGE T., Johns Hopkins Univ., Baltimore, Md.
bone..temporal bone; deafness; ear disorders; brain disorders; neoplasms; children

NB-02186 ALLEN, GEORGE W., Northwestern Univ., Chicago, Ill.
stapedectomy; implants; plastics; osteogenesis; bone.. temporal bone; nerves..neurons; ear..cochlea; fenestration

NB-02221 TIKOFSKY, RONALD S., Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
criteria; diagnostic tests; dysarthria; phonography; speech; therapy evaluation

NB-02482 DESMEDT, JEAN E., Sch. Med., Univ. Brussels, Brussels, Belgium
brain..olivocochlear bundle; nerve impulse inhibition; sensory mechanisms; hearing; nerves..synapse; ear.. organ of Corti; psychophysiology; electrophysiology; brain..association cortex; brain..auditory cortex; brain.. thalamocortical tracts; brain lesions; brain mapping; primates..monkeys; audiostimulus

NB-02484 DALY, JOHN F., New York Univ. Med. Cr., N.Y.C.
auditory threshold; conditioning..operant conditioning; hearing

NB-02503 RAPIN, ISABELLE, Albert Einstein Col. Med., Bronx, N.Y.
children; speech disorders; brain damage; deafness; emotional disturbance; neuropsychological tests; audiometry; diagnostic tests; reaction time; sensory feedback; computer analysis; brain..auditory tracts; concept; potentials..evoked potentials

NB-02517 MIZUKOSHI, OSAMU, Post-Grad. Med. Sch., New York Univ., New York, N.Y.
ear..cochlear microphonics; ear..endolymph; ear.. perilymph; kanamycin; ototaxins; electrophysiology; species; glucose; oxygen tension; electrolytes

NB-02662 HARDY, JAMES C., State Univ. Iowa, Iowa City, Iowa
respiration; speech; thorax..intrathoracic pressure; cerebral palsy; children; dysarthria

NB-02674 SHAMBAUGH, GEORGE E., Jr., Northwestern Univ., Evanston, Ill.
transparent chamber technique; ear..otocyst; cinematography; organ culture; streptomycin; gangliocytes; nerves..Nissl bodies; spinal cord..dorsal root; hair follicle; culture media; nutrients; ear.. organ of Corti; histogenesis

NB-02779 MILOJEVIC, BOSKO, State Univ. Iowa, Iowa City, Iowa
nervous system disorders; nervous system..auditory nerve; nervous system..vestibular nerve; diagnostic tests; criteria; nystagmus; brain..cerebral cortex

NB-02806 NAUNTON, RALPH F., Sch. Med., Univ. Chicago, Chicago, Ill.
auditory threshold; hearing..binaural hearing; hearing.. bone conduction; middle ear disorders; psychophysics; Weber test

NB-02813 IRWIN, ORVIS C., Univ. Wichita, Wichita, Kans.
body build; children..adolescence; larynx; longitudinal study; phonography; photography; radiography; vocal cords; voice

NB-02838 HAYDEN, ROYAL C., Jr., Henry Ford Hosp., Detroit, Mich.
bone..temporal bone; ear disorders; hearing tests

NB-02879 McGEE, T. MANFORD, Henry Ford Hosp., Detroit, Mich.
ultrasonics; ear..cochlea; ear..inner ear; ear..vestibular apparatus; bone..temporal bone; sound frequency; hearing.. auditory discrimination; auditory threshold shifts; nervous system..peripheral nerves

NB-02882 HYMAN, CAROL B., Children's Hosp., Los Angeles, Cal.
audiometry; children; deafness; hyperbilirubinemia; kernicterus; longitudinal study; nervous system disorders; speech

NB-02941 ERULKAR, SOLOMON D., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
audiostimulus; single cell analysis; brain..colliculus inferior; brain..geniculate body medial; potentials.. membrane potentials; muscle..tensor tympani; choline esterases; spinal cord; nervous system..vestibular nerve; nervous system..peripheral nerves; brain..motor cortex; electrophysiology

(contd)

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COMMUNICATIVE SCIENCES (CONTD)

NB-02973 WEVER, E.G., Princeton Univ., Princeton, N.J.
ear..organ of Corti; ear..cochlea; nervous system.. cochlear nerve; potentials; brain..auditory cortex; ear..cochlear microphonics

NB-02974 STEVENS, S.S., Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
hearing; psychophysics; sensory mechanisms

NB-03006 TATO, JUAN M., Sch. Med., Univ. El Salvador, Buenos Aires, Argentine
ethnic groups..American Indians; geographical sites..Peru; otosclerosis; presbycusis; auditory threshold; epidemiology; genetics

NB-03032 BILGER, ROBERT C., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
auditory recruitment; hearing; hearing tests; diagnostic tests

NB-03039 MISKOLCZY-FODOR, FRANCIS, Mt. Sinai Hosp., New York, N.Y.
auditory recruitment; hearing tests; diagnostic tests; deafness

NB-03059 LOWY, KARL, Sch. Med., Univ. Rochester, Rochester, New York
ear prosthesis; nervous system..central nervous system; conditioning; hearing..auditory discrimination; electrostimulus; brain

NB-03241 WINN, HOWARD E., Grad. Sch., Univ. Maryland, College Park, Md.
acoustic animals; communication; sound; behavior; sound frequency; conditioning; hearing; electrophysiology; ear; brain; migratory animals; homing; cyclic functions; photoperiodism; photosensitivity

NB-03290 RUHM, HOWARD B., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
audiostimulus; brain..auditory tracts; brain..cerebral cortex; brain lesions; diagnostic tests; ear..cochlear lesions; nervous system..auditory nerve; neurofibroma; peripheral nerves lesions; potentials

NB-03339 KELEMEN, GEORGE, Los Angeles Fdn. Otology, Los Angeles, Cal.
bone..temporal bone; deafness..sound trauma deafness; middle ear disorders; nervous system..auditory nerve

NB-03376 ALTMANN, FRANZ, Col. Phys., Surg., Columbia Univ., N. Y. C.
autopsy; bone..temporal bone; brain; deafness; ear; hearing tests

NB-03388 BLACK, JOHN W., Grad. Sch., Ohio Univ. Res. Fdn., Columbus, Ohio
speech disorders; motivation; psychological tests; training; speech; hearing..auditory discrimination

NB-03405 ENGER, PER S., Univ. Oslo, Oslo, Norway
hearing..auditory discrimination; nervous system.. auditory nerve

NB-03408 OGURA, JOSEPH H., Washington Univ., Med. Sch., St. Louis, Mo.
larynx; prosthesis; trachea; vocal cords

NB-03410 LAWRENCE, MERLE, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
ear..cochlear fluid dynamics; ear..inner ear; electrophysiology; ion

NB-03447 HILDING, DAVID A., Sch. Med., Yale Univ., New Haven, Conn.
cholinesterases..acetylcholinesterase; ear..cochlea; ear.. inner ear; nerve endings; radiolabeled potassium; radiolabeled sodium

NB-03451 SINGLETON, GEORGE T., Col. Med., Univ. Florida, Gainesville, Florida
vestibular reflex; habituation; caloric stimulation; ear.. inner ear; nystagmus; nervous system disorders; labyrinthectomy

NB-03453 WARD, ROBERT, Children's Hosp., Los Angeles, Cal.
ear..cochlear microphonics; potentials; auditory threshold shifts; nervous system..central nervous system; sensory mechanisms

NB-03484 HOSHIKO, MICHAEL, Grad. Sch., Southern Illinois Univ., Carbondale, Ill.
electromyography; magnetic recording system; muscle.. respiratory muscles; respiration; speech

NB-03516 LOWELL, EDGAR L., John Tracy Clin., Los Angeles, Cal.
audiostimulus; children; computer diagnosis; deafness; electroencephalography; instrumentation

NB-03541 STROMSTA, COURTNEY, Grad. Sch., Ohio State Univ., Columbus, Ohio
audiostimulus; brain..cerebral cortex; dysarthria; electronic recording; hearing..bone conduction; nervous system.. central nervous system; potentials; reaction time

NB-03542 HOHMANN, ALBERT, St. Joseph's Hosp., St. Paul, Minn.
ear..incus; ear..stapes; ear prosthesis; foreign body; polyethylene; primates..monkeys; stapedectomy; steel; teflon

NB-03654 TONNDORF, JUERGEN, Col. Phys., Surg., Columbia Univ., N.Y.C.
ear..cochlear microphonics; electrodes; ear surgery; sensory mechanisms; ear..cochlea; psychophysics

NB-03675 DZENDOLET, ERNEST, Col. Arts, Sci., Univ. Massachusetts, Amherst, Mass.
electrostimulus; threshold; ear..vestibular apparatus; posture; kinesthesis

NB-03680 GOLDSTEIN, ROBERT, Jewish Hosp., St. Louis, Mo.
age; audiometry; audiostimulus; auditory threshold; conditioning; electroencephalography; electrophysiology; ethnic groups..race; sex difference; skin

NB-03768 LINDSAY, JOHN R., Univ. Chicago, Chicago, Ill.
bone bank; bone..temporal bone; deafness; inner ear disorders; information exchange

NB-03782 RUTLEDGE, LEWIS J., Sch. Med., Tulane Univ., New Orleans, La.
bone..temporal bone; ear disorders; autopsy; longitudinal study; ear..tympanum; transplantation..homotransplantation; injuries; skin; veins; adipose tissue; ear transplantation; ear prosthesis; stapedectomy; accidents

NB-03854 WALTNER, JULES G., Sch. Med., Columbia Univ., New York, N.Y.
ultrasonics; radiation effects; ear..inner ear; Meniere's syndrome; inner ear disorders; instrumentation

NB-03855 ANSON, BARRY J., Sch. Med., State Univ. Iowa, Iowa City, Iowa
bone..temporal bone; ear; ear disorders; ear surgery; embryology; publications..monograph

NB-03932 SCHUKNECHT, HAROLD F., Massachusetts Eye, Ear Infirmary, Boston, Mass.
electron microscopy; deafness; electrophysiology; inner ear disorders

NB-03950 ZWISLOCKI, JOSEF J., Syracuse Univ. Res. Inst., Syracuse, N.Y.
touch; audiostimulus; sound frequency; auditory threshold; mechanical vibrations; loudness; biomathematics

NB-03952 EPSTEIN, AUBREY, Indiana Univ., Bloomington, Ind.
loudness; auditory recruitment; galvanic skin response; instrumentation; diagnostic tests; ear disorders

NB-03953 BEEKHUIS, G. JAN, Sch. Med., Wayne State Univ., Detroit, Mich.
ear disorders; nervous system disorders; bone..temporal bone; ear surgery; audiometry; cochlear microphonics

NB-03956 WERSALL, JAN O., Karolinska Inst., Stockholm, Sweden
nerves..innervation; epithelium; ear..vestibular apparatus; ototoxins; streptomycin; death; potentials..action potentials; nervous system..vestibular nerve; electrophysiology; ear..cochlear microphonics

NB-03995 HILDING, DAVID A., Sch. Med., Yale Univ., New Haven, Conn.
choline esterases; congenital abnormalities; deafness; ear..inner ear; epithelium; inner ear disorders

NB-04003 FANT, C. GUNNER M., Royal Inst. Technology, Stockholm, Sweden
speech, perception; sound frequency; loudness; semantics.. language; instrumentation-methodology; voice synthesizer; computer analysis; vocal cords; sound (speech) viewer

NB-04019 GOODHILL, VICTOR, Univ. California Med. Cr., Los Angeles, Cal.
ear disorders; congenital abnormalities; diagnostic tests; audiometry; computer

NB-04046 DEY, FREDERICK L., C.W. Shilling Auditory Res. Cr., Groton, Conn.
hearing..auditory discrimination; auditory recruitment; brain..auditory tracts; ear surgery; audiometry; brain lesions; behavior; primates..monkeys

NB-04056 MOORE, G. PAUL, Sch. Arts, Sci., Univ. Florida, Gainesville, Fla.
vocal cords; larynx; mechanical vibrations; voice

NB-04084 ELLIOTT, DONALD N., Henry Ford Hosp., Detroit, Mich.
auditory threshold; hearing..auditory discrimination; primates..monkeys; ear..cochlear lesions; conditioning; ultrasonics

NB-04105 BILGER, ROBERT C., Eye and Ear Hosp., Pittsburgh, Pa.
stapedectomy; ear surgery; ear..middle ear; auditory fatigue; audiometry; hearing

NB-04141 IRELAND, PERCY E., Banting Inst., Univ. Toronto, Toronto, Ontario, Canada
ear..endolymph; secretory mechanisms; ear..inner ear; mucopolysaccharides; radiolabeled; tritium; radioautography; electron microscopy; instrumentation-methodology

NB-04143 CHAMBERS, ALFRED H., Sch. Med., Univ. Vermont, Burlington, Vt.
audiostimulus; 2,4-dinitrophenol; ear..cochlear microphonics; ear..organ of Corti; hypoxia; triiodothyronine

NB-04155 BALOGH, KAROLY, Massachusetts Eye, Ear Inf., Boston, Mass.
acetylsalicylic acid; auditory fatigue; brain..cochlear nucleus; choline esterases; dihydrostreptomycin; ear.. cochlea; kanamycin; melanin; nervous system..auditory nerve; nucleic acids; ototoxins; presbycusis; respiratory enzymes; streptomycin; tritium

NB-04156 SCHUKNECHT, HAROLD F., Massachusetts Eye, Ear Inf., Boston, Mass.
stapedectomy; deafness; ear..perilymph; ear..cochlear lesions; deafness..sound trauma deafness; ear transplantation

NB-04193 GAETH, JOHN H., Sch. Educ., Lib. Arts, Wayne State Univ., Detroit, Mich.
auditory threshold; ear disorders; hearing..auditory discrimination; hearing..binaural hearing; sound frequency

NB-04215 COUNIHAN, DONALD T., Grad. Sch., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
cleft palate; instrumentation; nose; pneumoanemometer; speech disorders

NB-04216 COUNIHAN, DONALD T., Grad. Sch., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
cleft palate; electronic recording; nose; sound; speech disorders

NB-04263 HOHMANN, ALBERT, St. Joseph's Hosp., St. Paul, Minn.
bone; cholesteatoma; connective tissue; implants; mastoid obliteration (surgical); muscle; otitis media; primates..monkeys; silicone rubber; transplantation.. autotransplantation

NB-04308 KOPRA, LENNART L., Grad. Sch., Univ. Texas, Austin, Texas
deafness; hearing..auditory discrimination; hearing tests; noise; social adjustment; speech

NB-04332 STEVENS, KENNETH N., Mass. Inst. Technology, Cambridge, Mass.
speech; computer analysis; voice synthesizer; tongue; jaws; lip; pharynx

NB-04365 WEBSTER, DOUGLAS B., Col. Arts, Sci., New York Univ., N.Y.C.
ear..cochlea; ear..middle ear; ear..organ of Corti; embryology; ototoxins; physiology; streptomycin

NB-04398 HOLLIEN, HARRY, Univ. Florida, Gainesville, Fla.
voice; sound frequency; larynx; body build; instrumentation; radiography; anthropometry

NB-04403 WARD, W. DIXON, Univ. Minnesota, Minneapolis, Minn.
hearing tests; prediction; deafness..sound trauma deafness; diagnostic tests; conditioning; behavior; sound (speech) viewer

NB-04407 HOLLIEN, HARRY, Col. Arts, Sci., Univ. Florida, Gainesville, Fla.
cinefluorography; instrumentation; laminagraphy; vocal cords; voice

NB-04418 SPIEGEL, ERNEST A., Sch. Med., Temple Univ., Philadelphia, Pa.
ear..inner ear; brain mapping; brain..cerebral cortex; brain..temporal lobe; potentials..evoked potentials; electrolabyrinthography; computer analysis; primates.. monkeys

NB-04430 VON LEDEN, HANS, Univ. California Med. Cr., Los Angeles, Cal.
voice; larynx diseases; cinematography; laryngoscopy; larynx; stroboscopy; muscles..larynx; muscles

NB-04464 SCHARF, BERTRAM, Northeastern Univ., Boston, Mass.
loudness; sound frequency; auditory recruitment; brain disorders; ear disorders; brain..auditory tracts; diagnostic tests

NB-04481 BERGMAN, MOE, Hunter Col., New York, New York
presbycusis; hearing tests; social adjustment; deafness.. sound trauma deafness

NB-04508 BUTLER, ROBERT A., Univ. Chicago, Chicago, Illinois
hearing..binaural hearing; audiostimulus; sound frequency; time; loudness

NB-04562 LAWRENCE, MERLE, Kresge Hearing Res. Inst., Ann Arbor, Mich.
otosclerosis; bone; growth; cytology

NB-04595 LADEFOGED, PETER N., Sch. Letters, Sci., Univ. California, Los Angeles, Cal.
voice synthesizer; instrumentation; speech; trachea.. intratracheal pressure; vocal cords; palate; tongue; lips

NB-04615 DUVALL, ARNDT J., III, Sch. Med., Univ. Minnesota, Minneapolis, Minn.
ear..cochlea; fluid dynamics; ear..cochlear lesions; ear.. cochlear microphonics; ear..inner ear membranes; membrane permeability; potassium; sodium; water-electrolyte balance

NB-04620 DOLOWITZ, DAVID A., Sch. Surg., Univ. Utah, Salt Lake City, Utah
electronystagmography; instrumentation; vestibular reflex; inner ear disorders; ear..vestibular apparatus; diagnostic tests; brain lesions

NB-04627 CUTT, ROGER A., Presbyterian Hosp., Philadelphia, Pa.
ear..cochlear microphonics; auditory threshold shifts; sound frequency; ear..cochlear lesions; ototoxins

NB-04650 KATZ, JACK, Tulane Univ. Med. Sch., New Orleans, La.
auditory threshold; brain..brain stem; brain..temporal lobe; brain lesions; brain neoplasms; hearing..air conduction; hearing..auditory discrimination; hearing..bone conduction; hearing tests; Meniere's syndrome; psychometrics

NB-04720 SCHUKNECHT, HAROLD F., Massachusetts Eye, Ear Infirmary, Boston, Mass.
ear surgery; middle ear diseases; ear transplantation; instrumentation; diagnostic tests; ear..Eustachian tube; primates..monkeys

NB-04723 MALECOT, ANDRE, Univ. Pennsylvania, Philadelphia, Pa.
instrumentation-methodology; speech; electronic recording

NB-04740 TEAS, DONALD C., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
audiostimulus; behavior; ear..cochlear microphonics; ear.. inner ear; electrophysiology; electrostimulus; nerve impulse transmission; nervous system..auditory nerve; potentials..action potentials

NB-04746 ELLIOTT, DONALD N., Wayne State Univ., Detroit, Mich.
age; audiostimulus; diagnostic tests; ear disorders; hearing..auditory discrimination; hearing tests; performance; psychophysics; trauma

NB-04755 GELDARD, FRANK A., Grad. Sch., Princeton Univ., Princeton, N.J.
communication; somesthesis; mechanical vibrations; spatial perception; proprioceptors; skin; stimulus

NB-04759 WENDAHL, RONALD W., Univ. Minnesota, Minneapolis, Minn.
instrumentation-methodology; magnetic recording system; phonography; vocal cords; voice; voice synthesizer

NB-04793 ERICKSON, ROBERT P., Sch. Arts, Sci., Duke Univ., Durham, N.C.
computer analysis; conditioning..avoidance; nervous system..afferent nerves; phylogeny; potentials..evoked potentials; primates..monkeys; taste

NB-04799 GOLDSTEIN, ROBERT, Jewish Hosp., St. Louis, Mo.
electroencephalography; audiometry; diagnostic tests; galvanic skin response; ear disorders; mental retardation; speech disorders; anesthesia; potentials..evoked potentials; infants, human..newborn; child development; computer analysis; mental disorders

NB-04817 ZWISLOCKI, JOZEF, Col. Eng., Syracuse Univ., Syracuse, N.Y.
acoustic bridge; auditory recruitment; auditory reflex; children..preschool; diagnostic tests; ear..middle ear; ear..tympanum; ear disorders; ear surgery; hearing tests; instrumentation-methodology; muscle..ear muscles; sound impedance

NB-04923 RINGWALL, EGAN A., Col. Arts, Sci., State Univ. New York, Buffalo, N.Y.
infant human; vocalization; semantics..vocabulary; intelligence tests; criteria; verbal behavior; longitudinal study; child development

NB-04949 GREEN, DAVID M., Massachusetts Inst. Tech., Cambridge, Mass.
hearing..auditory discrimination; audiostimulus; sound frequency; noise; biomathematics; psychophysics

NB-04990 MASSOPUST, LEO C., Jr., Cleveland Psychiatric Inst., Cleveland, Ohio
audiostimulus; brain..auditory cortex; brain..auditory tracts; brain..colliculus inferior; brain..reticular formation; brain..subcortical structure; brain lesions; electrophysiology; electrostimulus; hearing..auditory discrimination; potentials..evoked potentials; primates..monkeys

NB-04993 BAIRD, IRWIN L., Univ. Tennessee Med. Units, Memphis, Tenn.
phylogeny; ear..inner ear; hearing; environment; reptiles

NB-05016 KONISHI, TERUZO, Col. Med., Univ. Florida, Gainesville, Fla.
ear..cochlea; ear..cochlear microphonics; ear.. endolymph; perfusion; electrolytes; audiostimulus; electrophysiology

NB-05044 JERGER, JAMES F., Houston Speech and Hearing Cr., Texas Med. Cr., Houston, Texas
deafness; audiostimulus; brain lesions; diagnostic tests; hearing..auditory discrimination; brain.. auditory cortex; brain..brain stem; nervous system.. auditory nerve

NB-05056 BOORD, ROBERT L., Sch. Arts, Sci., Univ. Delaware, Newark, Del.
ear..cochlea; ear..vestibular apparatus; brain..mesencephalon; brain..medulla oblongata; brain..auditory tracts; nerves..interneurons; physiology

NB-05065 HAWKINS, JOSEPH E., JR., Kresge Hearing Res. Inst., Univ Michigan Med. Sch., Ann Arbor, Mich.
ear..inner ear; ear..organ of Corti; ear..cochlear microphonics; electron microscopy; aging; ototoxins; electrophysiology; deafness, sound trauma deafness; ear..vestibular apparatus

NB-05077 STEBBINS, WILLIAM C., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
audiostimulus; behavior; reaction time; sound frequency; brain..auditory cortex; electrophysiology; psychophysics; primates..monkeys; loudness

NB-05082 HARBERT, FRED, Jefferson Med. Col., Philadelphia, Pa.
auditory threshold shifts; auditory feedback; brain..olive--cochlear bundle; potentials..evoked potentials; electrostimulus; end--organs; conditioning..operant conditioning; Meniere's syndrome; deafness; psychophysics

NB-05083 HAYDEN, ROYAL C., Jr., Henry Ford Hosp., Detroit, Mich.
muscles..ear muscle; auditory threshold shifts; audiostimulus; deafness..sound trauma deafness; ear surgery; sound frequency; loudness; primates..monkeys

NB-05102 GROSS, NATHAN B., Kresge Hearing Res. Inst., Univ. Mich., Ann Arbor, Michigan
brain..cerebellum; brain..medulla oblongata; brain.. mesencephalon; brain mapping; single cell analysis; audiostimulus; nerves..interneurons; nervous system.. auditory nerve; electrophysiology

NB-05105 DERBYSHIRE, ARTHUR J., Professional Sch., Univ. Illinois, Chicago, Ill.
audiostimulus; behavior; brain..cerebral cortex; communication; electroencephalography; hearing; potentials.. evoked potentials; psychophysics; rhythm; semantics.. language; sequential perception

NB-05127 DEW, DONALD, Sch. Arts, Sci., Univ. Florida, Gainesville, Fla.
speech; perception; phonography; geographical sites.. United States, Southern

(contd)

LISTING OF GENERAL RESEARCH AREAS

COMPUTER RESEARCH (CONTD)

FR-00246 SIMON, WILLIAM, Sch. Med., Harvard Univ., Boston, Mass.
research facilities; biological scientists; biomathematics; biophysics; information exchange; biomedical engineering; instrumentation--methodology; electronic recording; monitoring; computer; nuclear magnetic resonance; cell components..Golgi apparatus; kidney; ultrasonics; heart function; cooperative study; mathematical models

FR-00247 CUTTING, WINDSOR C., Univ. Hawaii, Honolulu, Hawaii
computer; biomathematics; epidemiology; mortality; medical records; genetics..population genetics.. human; congenital abnormalities; pregnancy loss; polymorphism (biology); publications..literature survey; ethnic groups; geographical sites..Hawaii; geographical sites..Asia; geographical sites.. Brazil; ethnic groups..Japanese; cardiovascular diseases; infectious diseases; nutrition; blood groups; clubfoot; Peace Corps

FR-00249 HIND, JOSEPH E., Univ. Wisconsin Computing Cr., Madison, Wis.
computer centers; biomathematics; nerves..neurons; single cell analysis; ion exchange and transport; electrochemistry; mucous membrane; gastrointestinal system; epithelium; blood circulation dynamics; prediction; psychometrics; infant human; adults; infant human..newborn; heart rate; audiostimulus; medical records; diagnostic tests

FR-00254 EASTWOOD, RICHARD T., Texas Med. Cr., Houston, Tex.
computer centers; statistical service centers; information exchange; manpower

GM-08710 DAYHOFF, MARGARET O., Natl. Biomedical Res. Fdn., Silver Spring, Md.
amino acid; proteins; peptides; chemical structure; computers; nucleic acids

GM-09534 SCHENTHAL, JOSEPH E., Tulane Univ., New Orleans, La.
medical records; computer; documentation systems

GM-09606 DANTZIG, GEORGE B., Col. Eng., Univ. California, Berkeley, Cal.
computer; mathematical models; membrane permeability and transport

GM-09607 SCHUMANN, FRED, Vanderbilt Univ., Nashville, Tenn.
radiation counters; magnetic recording system; instrumentation

GM-09608 BELLMAN, RICHARD E., Rand Corp., Santa Monica, Cal.
computer; psychiatry; membrane permeability and transport; blood flow; cardiovascular system; drugs; radiation effects; mathematical models

GM-09685 WHITNEY, VINCENT H., Univ. Pennsylvania, Philadelphia, Pa.
computer programming; education..postgraduate education; biometry; ecology, human

GM-09909 KINGSLAND, LAWRENCE C., Jr., Brown Univ., Providence, R.I.
medical research; medical practice; documentation systems; education..medical education; computer analysis

GM-10002 BARTHOLOMAY, ANTHONY F., Peter Bent Brigham Hosp., Boston, Mass.
biomathematics; computer analysis; computer diagnosis; information exchange; mathematical models; medical research; patient care; research programs; therapy

GM-10397 HALL, WILLIAM J., Univ. North Carolina, Chapel Hill, N.C.
computer; drugs; screening; statistics

GM-10494 STACY, RALPH W., Inst. Statistics, North Carolina State Col., Raleigh, N.C.
computer analysis; instrumentation; arteries; elasticity; respiration; electrocardiography; cardiovascular system; neuromuscular system

GM-10718 VON FOERSTER, HEINZ, Sch. Electrical Eng., Univ. Illinois, Urbana, Ill.
communication theory; memory--retention; nervous system; mathematical models; cognition

GM-10788 INGRAM, MARYLOU, Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
laboratory facilities; blood disorders; blood cells; cell types; diagnostic tests; instrumentation--methodology

GM-11021 SOLOMONOFF, RAY J., Rockford Res. Inst., Cambridge, Mass.
prediction; statistics; mathematical models; computer analysis

GM-11055 BRILL, NORMAN Q., Sch. Med., Univ. California, Los Angeles, Cal.
biomathematics; statistics; computer programming; instrumentation-methodology

GM-11208 ROGERS, DAVID J., New York Botanical Garden, Bronx, N.Y.
computer analysis; taxonomy; algae; plants; ecology, plants; disease classification

GM-11413 MUELLER, WILLIAM J., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
computer analysis; instrumentation-methodology; laboratory facilities

GM-11608 RIFFENBURGH, ROBERT H., Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.
marine biology; ecology, animal; cytology; biomathematics; mathematical models; computer analysis; bacteria..Mycoplasma; reproduction, microorganisms; genetics; enzymes; statistics

GM-11619 SWEENEY, JAMES W., Tulane Bio-Medical Computing System, New Orleans, La.
instrumentation--methodology; computer analysis; documentation systems; radiography

GM-11734 KLEINMUNTZ, BENJAMIN, Sch. Humanities, Social Sci., Carnegie Inst. Tech., Pittsburgh, Pa.
computer programming; decision--making; computer diagnosis; instrumentation--methodology

GM-12015 ENSLEIN, KURT, 42 East Ave., Rochester, N.Y.
computer programming; computer diagnosis; computer analysis; documentation systems; congenital heart disease; valvular heart diseases; cancer; heart sounds; disc electrophoresis; radiography; genetics..chromosomes

GM-13605 STAHL, WALTER R., Oregon Regional Primate Res. Cr., Beaverton, Ore.
biomathematics; computer programming; mammals; growth; enzymes; enzyme feedback; mathematical models

HE-07575 SCHMITT, OTTO H., Univ. Minnesota, Minneapolis, Minn.
computer analysis; electrocardiography; respiration; heart rate; instrumentation-methodology

HE-07767 MOE, GORDON K., Masonic Med. Res. Lab., Utica, N.Y.
computer analysis; heart..myocardium; arrhythmia (cardiac) ..atrial fibrillation; tachycardia; mathematical models

HE-07811 WEIL, MAX H., Sch. Med., Univ. Southern California, Los Angeles, Cal.
blood circulation dynamics; computer analysis; heart function; respiration; shock

HE-08223 BAILEY, HERBERT R., Col. Sci., Arts, Colorado State Univ., Fort Collins, Colo.
cardiovascular system; mathematical models; biomathematics; blood circulation dynamics; albumins; lymph flow; radiolabeled iodine

HE-08456 HORGAN, JAMES D., Col. Eng., Marquette Univ., Milwaukee, Wis.
computer; computer analysis; hypercapnia; hyperpnea; hyperventilation (passive); hypoxia; instrumentation-methodology; mathematical models; respiratory system

HE-08516 RANDALL, JAMES E., Sch. Med., Northwestern Univ., Chicago, Ill.
cardiovascular system; blood pressure; blood flow; computer analysis; statistics; tremor; fingers

HE-08527 TUNA, NAIP, Univ. Minnesota Hosp., Minneapolis, Minn.
computer analysis; vectorcardiography; criteria; age; sex difference; body weight; heart diseases; diagnostic tests

HE-08663 MALINDZAK, GEORGE S., Jr., Bowman Gray Sch. Med., Winston-Salem, N.C.
arteries..aorta; biomathematics; blood circulation dynamics; blood flow impedance; cardiovascular system; computer analysis; pulse pressure waves

HE-08665 DE LAND, EDWARD C., Rand Corporation, Santa Monica, Cal.
biomathematics; blood; blood proteins; buffers; computer analysis; homeostasis; ion exchange; oxyhemoglobin; pulmonary function; sodium; stress; thermodynamics

HE-08666 BARNETT, G. OCTO, Peter Bent Brigham Hosp., Boston, Mass.
biomathematics; blood circulation dynamics; cardiovascular system; computer analysis; heart function; mathematical models

HE-08667 SPACH, MADISON S., Sch. Med., Duke Univ., Durham, N.C.
electrocardiography; vectorcardiography; computer analysis; instrumentation-methodology; children; cardiovascular diseases; electronic recording; heart function; diagnostic tests; criteria; cooperative study; congenital heart disease

HE-08855 URBACH, JOHN R., Woman's Med. Col., Philadelphia, Pa.
arrhythmia, cardiac..atrial fibrillation; heart conduction system..heart pacemakers; computer programming; computer analysis; monitoring; digitalis; quinidine; anesthesia; respiration; heart function; body temperature; heart diseases; metabolic diseases; exercise; body position

HE-08956 MILLER, ROBERT A., Col. Med., Univ. Illinois, Chicago, Ill.
computer analysis; electrocardiography; children; child development; congenital heart disease; criteria

HE-09123 SELVESTER, RONALD, Attending Staff Assn. of Rancho Los Amigos Hosp., Downey, Cal.
heart; electrical fields; mathematical models; computer programming; instrumentation--methodology; electrocardiography; vectorcardiography; biological models; body build; infant human; children.. adolescence; computer diagnosis; heart enlargement.. ventricular hypertrophy; myocardial infarct

HE-09495 SHEPPARD, CHARLES W., Univ. Tennessee Med. Units, Memphis, Tenn.
medical research; education..medical education; computer centers

HE-09507 HON, EDWARD H., Sch. Med., Yale Univ., New Haven, Conn.
heart rate; fetus; computer analysis; pregnancy.. childbirth; pregnancy; morbidity

HE-09528 BEHRER, M. REMSEN, Sch. Med., Washington Univ., St. Louis, Mo.
electrocardiography; fetus; pregnancy..childbirth; pregnancy toxemias and hypertension..eclampsia; diabetes; erythroblastosis fetalis; congenital abnormalities

HE-09679 EVANS, JOHN M., George Washington Univ. Hosp., Washington, D.C.
instrumentation--methodology; computer analysis; arrhythmia, cardiac; diagnostic tests

HE-09696 PIPBERGER, HUBERT V., Veterans Admin. Hosp., Washington, D.C.
computer diagnosis; cardiovascular disorders; electrocardiography; computer

HM-00300 LAMSON, BALDWIN G., Sch. Med., Univ. California, Los Angeles, Cal.
computer analysis; computer programming; medical records; hospitals patients; preventive medicine

HM-00307 LAKE, RAYMOND B., Jr., Memorial Hosp., Long Beach, Cal. medical records; documentation systems; hospitals administration; electronic recording

HM-00365 SPENCER, WILLIAM A., Texas Inst. Rehabilitation, Res., Houston, Tex.
computer centers; information exchange; computer programming; instrumentation--methodology; chronic disease; documentation systems

HM-00374 LINDBERG, DONALD A.B., Sch. Med., Univ. Missouri, Columbia, Mo.
hospitals; medical records; documentation systems; computer analysis; computer programming; patient care; diagnostic tests; hospitals release

HM-00376 DIETIKER, K. EDWARD, Children's Asthma Res. Inst. and Hosp., Denver, Colo.
hospitals; medical records; documentation systems; communication theory; coding; consultation; computer

HM-00393 LEVY, RICHARD P., University Hosp., Cleveland, Ohio
documentation systems; medical records; hospitals; computer analysis; instrumentation--methodology; coding; patient care..ambulatory patients; diabetes; nervous system; disorders; medical economics

HM-00394 SELIGSON, DAVID, Sch. Med., Yale Univ. New Haven, Conn.
instrumentation--methodology; computer; computer analysis

HM-00407 WALKER, JAMES E.C., Peter Bent Brigham Hosp., Boston, Mass.
medical services; hospitals outpatients; patient care; computer analysis; medical records; community service; medical economics; hospitals administration

MH-05254 UHR, LEONARD M., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
computer programming; concept; form perception; learning; mathematical models; problem solving; semantics.. language

MH-06127 BURNIGHT, ROBERT G., Brown Univ., Providence, R.I.
computer analysis; aging; fertility; biometry; population dynamics (human)

MH-06154 SUPPES, PATRICK, Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.
computer programming; mathematical models; psychology; learning; psychophysics; education..elementary education

MH-06155 GYR, JOHN W., Sch. Med., Univ. Michigan, Ann Arbor, Michigan
cognition; computer analysis; logic; mathematical models; problem solving

MH-06645 COLBY, KENNETH M., Sch. Med., Stanford Univ., Stanford, Cal.
computer; neuroses; therapy; mathematical models

MH-06823 PECK, ROBERT F., Sch. Educ., Univ. Texas, Austin, Texas
behavior rating scales; computer programming; personality; psychological tests; role; verbal behavior

MH-06947 ROME, HOWARD P., Mayo Assn., Rochester, Minn.
MMPI; personality; medical records; computer programming; computer diagnosis; hospitals patients

MH-07140 STERN, JOHN A., Sch. Med., Washington Univ., St. Louis, Mo.
schizophrenia; diagnostic tests; electroencephalography; computer analysis; therapy evaluation; chemotherapy; psychophysiology; habituation

MH-07285 CLYDE, DEAN J., Univ. Miami, Coral Gables, Fla.
therapy evaluation; psychotropic drugs; criteria; prediction; biometry; computer analysis

MH-07567 HUNT, EARL B., Univ. Sydney, Sydney, N.S.W., Australia
learning; concept; problem solving; computer programming; computer simulation; intelligence

MH-07722 SIMON, HERBERT A., Carnegie Inst. Tech., Pittsburgh, Pa.
communication theory; psychology; computer simulation; computer programming; problem solving; learning; concept; perception; sensory mechanisms; verbal behavior; semantics..language; psychophysiology; instrumentation-methodology; electronic recording; conditioning..verbal conditioning

MH-08083 MILLER, GEORGE A., Cr. Cognitive Studies, Harvard Univ., Cambridge, Mass.
learning; cognition; psycholinguistics; semantics.. artificial language; semantics..grammar; memory--retention; computer evaluation; instrumentation--methodology

MH-08177 SAKODA, JAMES M., Brown Univ., Providence, R.I.
computer programming; population dynamics (human); social psychology; training

MH-10326 ERVIN, FRANK R., Massachusetts Gen. Hosp., Boston, Mass.
computer analysis; research programs; psychiatry; biomathematics; computer programming; learning; brain ..visual cortex; growth; potentials..evoked potentials; electrodes..microelectrodes

MH-10444 HARWAY, NORMAN I., Univ. Rochester Med. Cr., Rochester, N.Y.
computer analysis; computer programming; interviews recording; psychotherapy; psycholinguistics; coding; statistics; dreams

MH-10822 HOFFMAN, PAUL J., Oregon Res. Inst., Eugene, Ore.
computer analysis; instrumentation--methodology; television; laboratory facilities; information exchange; computer centers

MH-10936 LAGO, GLADWYN V., Col. Eng., Univ. Missouri, Columbia, Mo.
computer simulation; electroencephalography; instrumentation--methodology; arousal; learning; motivation

NB-02501 FRENCH, JOHN D., Sch. Med., Univ. California, Los Angeles, Cal.
computer analysis; nervous system..central nervous system; coding; electroencephalography; learning; computer programming; brain disorders; neuromuscular disorders; epilepsy

NB-03491 MACY, JOSIAH, Jr., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
coding; computer centers; mathematical models; neurophysiology; single cell analysis

NB-04009 REMOND, ANTOINE G.J., La Salpetriere Hosp., Paris, France
electroencephalography; brain toposcope; instrumentation; brain mapping; potentials..evoked potentials; multichannel analyzer; diagnostic tests; brain disorders; computer analysis

NB-04515 ADAMS, RAYMOND D., Sch. Med., Massachusetts Gen. Hosp., Boston, Mass.
disease classification; documentation systems; medical records; nervous system disorders

NB-04685 POTTS, ALBERT M., Univ. Chicago, Chicago, Ill.
documentation systems; computer; vision; publications..literature survey

NB-04705 SWEENEY, JAMES W., Tulane Univ., New Orleans, La.
computer analysis; computer diagnosis; statistics; instrumentation-methodology; drugs; sleep; psychophysiology; electroencephalography

NB-04773 BRAZIER, MARY A.B., Sch. Med., Univ. California Med. Cr., Los Angeles, Cal.
anesthetics; brain..amygdala; brain..hippocampus; brain.. subcortical structures; brain..temporal lobe; computer analysis; electrodes; electroencephalography; epilepsy; implants; potentials..evoked potentials; sleep

NB-04917 BICKFORD, REGINALD G., Mayo Association, Rochester, Minn.
computer; documentation systems; electroencephalography; information exchange

NB-05133 VASTOLA, EDWARD F., Col. Med., State Univ. New York, Brooklyn, N.Y.
brain..visual cortex; nervous system..optic nerve; potentials..evoked potentials; electrostimulus; computer analysis; laboratory facilities

NB-05136 TOWE, ARNOLD L., Sch. Med., Univ. Washington, Seattle, Wash.
criteria; computer analysis; electrophysiology; nerves..neurons; potentials..evoked potentials; brain..thalamus; brain..somatosensory cortex; electrostimulus; skin; nerve impulse transmission single cell analysis; brain mapping

NB-05150 WOODCOCK, RICHARD W., George Peabody Col., Nashville, Tenn.
instrumentation; electronic brailling system

NB-05269 PANDT, CLARK T., New York Univ. Med. Cr., N.Y.C.
computer analysis; electroencephalography; adults; eye movement; sleep; biomathematics; laboratory facilities

NB-05515 FARLEY, BELMONT G., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
nerves..neurons; brain..cerebral cortex; computer analysis; potentials..after potentials; mathematical models; nerve impulse transmission; brain lesions; epilepsy; threshold

NB-05597 EISENBERG, MARVIN F., Col. Eng., Univ. Florida, Gainesville, Fla.
potentials..evoked potentials; computer analysis; visual stimulus; vision tests; children; brain disorders; biomathematics; instrumentation--methodology

NB-05606 GERSTEIN, GEORGE L., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
brain..sensory cortex; brain..cochlear nucleus; nerves..neurons; potentials..evoked potentials; nerve impulse transmission; computer simulation; mathematical models; ammonium

RH-00404 HOWARTH, JOHN L., Univ. New Mexico, Albuquerque, N. Mex.
instrumentation--methodology; computer analysis; biomathematics; radioisotopes; radiation therapy; dosage; bone; prediction

WP-00415 BUGLIARELLO, GEORGE, Sch. Eng., Sci., Carnegie Inst. Tech., Pittsburgh, Pa.
communication theory; computer programming; hydrodynamics; sanitary engineering; semantics..language; water

DENTAL (CONTD)

DE-01554 MANDEL, IRWIN D., Sch. Dent., Oral Surg., Columbia Univ., New York, N.Y.
dental calculus; carbohydrates; lipids; amino acids; proteins; mouth; microorganisms; saliva; calcium; phosphorus; sodium; potassium chloride; chlorides

DE-01555 MADSEN, KENNETH O., Univ. Texas, Houston, Texas
dental caries; diet; seeds

DE-01577 PAFFENBARGER, GEORGE C., Am. Dental Assn., Natl. Bureau Standards, Washington, D.C.
dental structure..teeth; bone; dental caries; pyrimidine; fluorescence; survey; dental health

DE-01578 FROMMER, JACK, Sch. Med., Tufts Univ., Boston, Mass.
joints..temporomandibular joint; reticuloendothelial system; macrophages; nerves

DE-01584 GOLDMAN, HENRY M., Massachusetts Mem. Hosp., Boston, Mass.
salivary glands; dental diseases..gingival disease; inflammation; diet; hydrogen-ion concentration; microorganisms

DE-01587 MEZROW, RALPH A., Albert Einstein Med. Cr., Philadelphia, Pa.
dental transplantation; dental structure..teeth; transplantation immunology

DE-01588 DRAUS, FRANK J., Sch. Dent., Univ. Pittsburgh, Pittsburgh, Pa.
dental calculus; calcification; calcium; phosphorus; organic compounds; radiography

DE-01599 KRUGER, GUSTAV O., Georgetown Univ., Washington, D.C.
antibiotics; bacteremia; culture media; dentistry; endocarditis; rheumatic fever; therapy evaluation

DE-01600 HANDELMAN, STANLEY L., Eastman Den. Disp., Rochester, N.Y.
mouth; microorganisms; dentistry; dental caries; ecology, microorganisms

DE-01610 LEDLEY, ROBERT S., Natl. Biomed. Res. Fdn., Silver Spring, Md.
muscle; dental prosthesis..dentures; dental stress analysis; dentistry..mastication; dental health; dental structure..periodontium

DE-01620 AVERY, JAMES K., Sch. Dent., Univ. Michigan, Ann Arbor, Mich.
collagen; ascorbic acid; dental structure..pulp; connective tissue; dental structure..dentin; research programs

DE-01633 HEWES, C. GORDON, Sch. Med., West Virginia Univ., Morgantown, W.Va.
aging; blood vessels; bone resorption; dental structure.. alveolus; jaws..mandible; tooth disuse atrophy; x-ray microscopy

DE-01647 WARE, WILLIAM H., Sch. Dent., Univ. California, San Francisco, Cal.
joints..temporomandibular joint; dental occlusion

DE-01648 ZANDER, HELMUT A., Eastman Dent. Disp., Rochester, N.Y.
dental disease..periodontal disease; dental occlusion; injury; muscle contraction; dental stress analysis; dental structure..gingiva; epithelium; toxicology; research programs

DE-01650 WESTOVER, JOSEPH R., Sch. Dent., Univ. California, Los Angeles, Cal.
dentistry; speech disorders; joints..temporomandibular joint; growth; cleft palate prosthesis; cleft palate; aging; cephalometry; cinefluorography; radiography; diagnostic tests

DE-01651 HODAPP, EUGENE L., Sch. Dent., Univ. Detroit, Detroit, Mich.
calcification; dentinogenesis; dental structure..enamel; dental structure..dentin; ossification

DE-01654 ERICSSON, YNGVE, Karolinska Institutet, Stockholm, Sweden
radiolabeled fluorine; radiolabeled calcium; radiolabeled phosphorus; cartilage; molecular structure; ion; fluorides; calcium phosphate; fluorophosphates

DE-01657 FISCHER, THEODORE E., Sch. Dent., Univ. Alabama, Birmingham, Alabama
dental materials; zinc phosphate; silicates

DE-01659 PAFFENBARGER, GEORGE C., Natl. Bureau of Standards, Washington, D.C.
dental prosthesis..dentures; dental stress analysis; plastics; dental materials..impression materials

DE-01662 LAVINE, LEROY S., Long Island Jewish Hosp., New Hyde Park, N.Y.
calcification; calcium; marine biology; microorganisms

DE-01663 KLAPPER, CLARENCE E., Univ. Alabama Med. Cr., Birmingham, Alabama
salivary glands; publications..monograph; electron microscopy

DE-01674 SCHNEYER, CHARLOTTE A., Univ. Alabama Med. Cr., Birmingham, Ala.
salivary glands hypertrophy; isoproterenol; salivary glands neoplasms; salivary glands hyperplasia; electrolytes; carbohydrases..amylases; saliva; nervous system.. parasympathetic nervous system; parotid gland

DE-01676 GEORGE, W. ARTHUR, Sch. Dent., Univ. Pittsburgh, Pittsburgh, Pa.
dental materials; dental prosthesis..dentures; oral--facial anomalies; implants

DE-01686 THOMAS, ADEEB E., Sch. Dent., Univ. Alabama, Birmingham, Ala.
dental caries; dental fillings..cavity preparation

DE-01701 TAMARIN, ARNOLD, Sch. Dent., Univ. Washington, Seattle, Wash.
cell components..granules; submandibular gland

DE-01715 MOSS, MELVIN L., Col. Phys., Surg., Columbia Univ., N.Y.C.
calcification; organic compounds; phosphates; radiolabeled calcium; salts

DE-01716 YAEGER, JAMES A., Col. Dent., Univ. Illinois, Chicago, Ill.
citrate; dental structure..dentin; dental structure.. enamel; dentinogenesis; ergosterol; parathyroid hormones; phosphates; polysaccharides; sodium fluoride; strontium

DE-01719 GOLDMAN, HENRY M., Grad. Sch. Dent., Boston Univ., Boston, Mass.
collagen; ascorbic acid; dietary deficiency; injuries.. wound healing; blood vessels; dental structure..periodontium; embryology; hyperthyroidism; dental structure..pulp

DE-01720 FLIEDER, DONALD E., Sch. Dent., St. Louis Univ., St. Louis, Mo.
β--aminopropionitrile; diphenylhydantoin; mouth; proteins; glycine

DE-01723 JOHANNESSEN, LEIF B., Forsyth Dent. Inf., Boston, Mass.
adrenal glands; dentinogenesis; pituitary gland; thyroid gland

DE-01735 BRINSDEN, GILBERT I., Sch. Dent., Northwestern Univ., Chicago, Ill.
dental caries; dental materials..impression materials; dentistry

DE-01736 SKINNER, EUGENE W., Dent. Sch., Northwestern Univ., Evanston, Ill.
dental fillings..cavity preparation; dental fillings.. marginal discrepancy; dental fillings..sealing properties

DE-01737 SKINNER, EUGENE W., Northwestern Univ. Dental Sch., Chicago, Ill.
carboxylic acids; dental fillings..temporary fillings; dental materials..adhesives; metal oxides

DE-01747 COOLIDGE, THOMAS B., Sch. Biol. Sci., Univ. Chicago, Chicago, Ill.
acidosis; alkalosis; calcium; diagnostic tests; hyperparathyroidism; instrumentation-methodology; ion

DE-01751 SILLMAN, JOHN H., 667 Madison Ave., New York, N.Y.
dental structure; dental occlusion; longitudinal study

DE-01755 WERTHEIMER, FREDERICK W., Henry Ford Hosp., Detroit, Mich.
hyaline bodies; dental cysts; dental structure..dental cuticles; dental disease..periodontal disease

DE-01760 KLAPPER, CLARENCE E., Univ. Alabama Med. Cr., Birmingham, Alabama
dental caries; genetics

DE-01764 SCHRAER, HARALD, Col. Chem., Physics, Pennsylvania State Univ., University Park, Pa.
calcification; calcium; egg shell; electron microscopy; membrane permeability; radiolabeled

DE-01766 NALBANDIAN, JOHN, Sch. Dent., Harvard Univ., Boston, Mass.
mouth; mucous membrane; bone; dental disease..periodontal disease; mouth neoplasms; inflammation; carcinogenesis; bone resorption; aging; dental structure

DE-01769 EIRICH, FREDERICK R., Polytechnic Inst., Brooklyn, N.Y.
resins; dental fillings; temperature; polymerization; calcification; dental materials..adhesives

DE-01770 GORLIN, ROBERT J., Sch. Dent., Univ. Minnesota, Minneapolis, Minn.
oral--facial anomalies; genetics..chromosomes; dentinogenesis; carcinogenesis; oxidoreductases..succinate dehydrogenase; oxidoreductases..NADP(H2) diaphorase; Klinefelter's syndrome; Turner's syndrome; mouth neoplasms; salivary glands neoplasms; dwarfism; mucopolysaccharides

DE-01790 PORTER, KENDALL, Sch. Dent., Univ. Kansas City, Kansas City, Mo.
bone resorption; osteogenesis; oxygen tension; inflammation; reaction sites; dental disease..periodontal disease; parathyroid glands; organ culture

DE-01791 TAKUMA, SHOSABURO, Tokyo Dent. Col., Tokyo, Japan
dental structure..dentin; dental structure..tooth germ; fetus

DE-01795 CHILTON, NEAL W., Sch. Pub. Hlth., Columbia Univ., N.Y.C.
publications..book; dentistry; dental research; statistics

DE-01800 NOLTE, WILLIAM A., Univ. Texas Dent. Br., Houston, Tex.
dental calculus; microorganisms; mouth; carbohydrates; hydrogen-ion concentration; dentifrices; germicides; diffusion

DE-01810 FURSTMAN, LAWRENCE, Sch. Dent., Univ. So. California, Los Angeles, Cal.
age; dental occlusion; joints..temporomandibular joint

DE-01813 McDONALD, RALPH E., Sch. Dent., Indiana Univ., Indianapolis, Ind.
dental fillings..marginal discrepancy; dental fillings.. cavity preparation; television microscopy; stannous fluoride; instrumentation-methodology

DE-01817 PEYTON, FLOYD A., Sch. Dent., Univ. Michigan, Ann Arbor, Mich.
dental structure..teeth; dental prosthesis..dentures; dental stress analysis

DE-01818 FRY, EDWARD I., Univ. Nebraska, Lincoln, Nebr.
muscle; growth; face; twins; genetics; longitudinal study; muscle tone; muscle stress

DE-01819 **BROWN, WALTER E., American Dent. Assn. Res. Div., Natl. Bureau Standards, Washington, D.C.**
solubility; calcium phosphate; saliva; blood..serum; hydroxyapatite; crystallization; hydrolysis

DE-01820 **DEMPSTER, WILFRID T., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
anatomy; dental stress; dentistry..mastication; jaw movements; jaw; muscle

DE-01829 **KYDD, WILLIAM L., Sch. Dent., Univ. Washington, Seattle, Wash.**
dental stress analysis; instrumentation-methodology; mechanical pressure; radio; telemetering

DE-01830 **HIGUCHI, WILLIAM I., Sch. Pharm., Univ. Michigan, Ann Arbor, Mich.**
buffers; decalcification; dental structure..enamel; lactates; mathematical models; polymers

DE-01835 **BENNETT, JAMES S., Univ. Oregon Dent. Sch., Portland, Ore.**
keratosis; mouth; dental disease; cell types; latent cancer; diagnostic tests

DE-01841 **OLIN, WILLIAM H., Sch. Med., State Univ., Iowa, Iowa City, Iowa**
survey; dental prosthesis; prosthesis; toxicology; therapy evaluation; oral-facial surgery

DE-01847 **PENTEL, LEON, Col. Dent., New York Univ., New York, N.Y.**
trace elements; dental structure..enamel; dental structure ..dentin; dental structure..cementum; pregnancy.. placental transfer; radioisotopes..copper 64; radioisotopes..zinc 65; radioisotopes..strontium 85

DE-01848 **VELEZ, HERNAN, Sch. Dent., Univ. Antioquia, Medellin, Columbia, S.A.**
fluoridation; diet; dental caries; dental structure..enamel; geographical sites..Columbia; longitudinal study; children; water supply; growth

DE-01852 **FINN, SIDNEY B., Sch. Dent., Univ. Alabama, Birmingham, Ala.**
calcium hydroxide; dental caries; dental fillings; dental structure..dentin; pain

DE-01856 **GROSSMAN, RICHARD C., Sch. Dent., Univ. California, Los Angeles, Cal.**
sensory mechanisms; heat; touch; mouth; dentistry.. orthodontics; mucous membrane; threshold

DE-01861 **SHKLAR, GERALD, Sch. Dent. Med., Tufts Univ., Boston, Massachusetts**
dental disease; mucous membrane

DE-01862 **BUONOCORE, MICHAEL G., Eastman Dent. Dispensary, Rochester, N.Y.**
dental structure..teeth; dental caries; dental caries inhibitors; dental materials..adhesives; dental structure.. pulp; primates..monkeys

DE-01863 **KRONMAN, JOSEPH H., Sch. Dent. Med., Tufts Univ., Boston, Mass.**
salivary glands; thyroid gland; thyroxine; hypophysectomy; thiouracil; sex difference; testosterone

DE-01868 **DOGON, ISRAEL L., Forsyth Dental Inf., Boston, Mass.**
bactericides; dental caries; dental disease..periodontal disease; radiolabeled carbon; radiolabeled sulfur; saliva; thiocyanate

DE-01870 **CARRIKER, MELBOURNE R., Marine Biological Lab., Woods Hole, Mass.**
mollusks; decalcification; ecology, animal; behavior; cytology

DE-01874 **DAHLBERG, ALBERT A., Zoller Mem. Dental Clinic, Chicago, Ill.**
dentition; genetics; environment; children; ethnic groups.. American Indians

DE-01876 **PHILLIPS, RALPH W., Sch. Dent., Indiana Univ., Indianapolis, Ind.**
dentistry; hydrogen-ion con concentration; dental fillings ..sealing properties; dental fillings; electrodes; instrumentation-methodology

DE-01877 **KAPSIMALIS, PETER, Sch. Dent., Temple Univ., Philadelphia, Pa.**
dental structure..tooth root canal; dental fillings.. sealing properties; dental fillings..marginal discrepancy; dental material..amalgam; dyes; bacteria; indicators

DE-01881 **JUNQUEIRA, LUIZ C.U., Sch. Med., Univ. Sao Paulo, Sao Paulo, Brazil**
carbohydrases..amylases; esterases; nucleases.. deoxyribonuclease; nucleases..ribonucleases; phosphatases; salivary glands

DE-01885 **de HANDAL SACA, MYRIAN, Universidad de El Salvador, San Salvador, El Salvador, Central America**
histogenesis; dental structure..tooth germ; dental structure.. ameloblasts

DE-01886 **KIGUEL, ENRIQUE, Sch. Dent., Georgetown Univ., Washington, D.C.**
β-aminopropionitrile; calcification; collagen; cortisone; dentinogenesis; drugs interaction (synergism); infants (animals)..newborn; mucopolysaccharides; proteases.. papain

DE-01887 **WAGNER, MORRIS, Univ. Notre Dame, Notre Dame, Ind.**
microorganisms; dental caries; genetics; salivary glands; germ--free; immunology..antibodies

DE-01903 **ENLOW, DONALD H., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
dental surgery; growth; jaws..mandible; osteocytes; bone..Haversian systems; necrosis; bone; osteogenesis; primates..Macaca mulatta

DE-01904 **SONI, NARENDAR N., Col. Dent., Howard Univ., Washington, D.C.**
dental structure..teeth; dental structure..enamel; dental structure..dentin; dental caries; calcification; children

DE-01908 **CLAYCOMB, CECIL K., Sch. Dent., Univ. Oregon, Portland, Ore.**
collagen; dental structure..gingiva; glycine; proline; ascorbic acid

DE-01920 **GROSSMAN, LOUIS IRWIN, Sch. Dent., Univ. Pennsylvania, Philadelphia, Pa.**
bacteria..Serratia marcescens; dental structure..gingiva; dental structure..pulp; dental structure..teeth; dental structure..tooth root canal; growth (microorganisms); injury; microbial culture; primates..monkeys

DE-01921 **LUTZ, KENNETH R., Sch. Dent., Loma Linda Univ., Loma Linda, Cal.**
bone..skull; cleft palate; dental structure; dentistry.. orthodontics; jaws; tongue

DE-01922 **BIRD, JOHN T., Sch. Dent., Washington Univ., St. Louis, Mo.**
survey; dental structure..teeth; radioisotopes..strontium 90; children; cooperative study

DE-01926 **BURZYNSKI, NORBERT J., Sch. Dent., Univ. Louisville, Louisville, Ky.**
age; β-aminopropionitrile; chemical structure; collagen; connective tissue; hexoses; lathyrism; mouth; mucoproteins; nucleic acids; radiolabeled carbon

DE-01929 **BENDER, ISRAEL B., Research Building, Sch. Dent., Univ. Pennsylvania, Philadelphia, Pa.**
dental disease..periodontal disease; dental structure.. periodontium; dental structure..pulp; dental structure.. teeth; inflammation; primates..monkeys

DE-01930 **SELTZER, SAMUEL, Sch. Dent., Univ. Pennsylvania, Philadelphia, Pa.**
dental structure..alveolus; dental structure..pulp; dental structure..teeth; dental structure..tooth root canal; dental surgery; dentistry..endodontics; injury..wound healing; primates..monkeys

DE-01932 **ELLISON, SOLON A., Sch. Dent., State Univ. New York, Buffalo, N.Y.**
bacteria..fusobacteria; culture media; dental disease.. periodontal disease; gamma globulin; immune sera; immunological tests; immunology..antigen-antibody reactions; microbial culture; proteases; therapy

DE-01938 **MAHLER, DAVID B., Univ. Oregon Dental Sch., Portland, Ore.**
dental fillings; dental materials..amalgam; dental stress analysis; dentistry..mastication

DE-01939 **HALDI, JOHN, Sch. Dent., Emory Univ., Atlanta, Ga.**
carbon dioxide; dental caries; dental caries inhibitors; dental structure..enamel; dental structure..tooth germ; diet; magnesium; nitrogen; phosphates; phosphorus; sialoadenectomy; sucrose

DE-01941 **PARFITT, GILBERT JOHN, Faculty Dent., Univ. British Columbia, Vancouver, Canada**
dental disease; dental stress analysis; dental structure.. periodontium; dental structure..teeth; diagnostic tests

DE-01952 **QUINTARELLI, GIULIANO, Univ. Alabama Med. Cr., Birmingham, Ala.**
carbohydrates; deoxyribonucleic acid; mucin; parotid gland; proteins; ribonucleic acid; secretory mechanisms; sublingual gland; submandibular gland

DE-01956 **WILLIAMS, NED B., Univ. Pennsylvania, Philadelphia, Pa.**
mouth; ecology, microorganisms; dental disease; bacteria ..Lactobacillus casei; bacteria..Streptococcus faecalis; viruses..bacteriophage; bacterial capsule; genetic strains; microbial culture; immunology; polysaccharides; culture media; carbohydrases..hyaluronidase; growth, microorganisms; bacteria..L--form bacteria

DE-01959 **SIMPSON, DALE R., Lehigh Univ., Bethelem, Pa.**
apatites; bone; calcification; crystallization; dental structure..teeth; iodine; minerals; strontium; substitution reactions (chemistry); trace elements

DE-01960 **LEVY, MILTON, Col. Dent., New York Univ., N.Y.C.**
apatites; dental structure..teeth; minerals; ph stat; proteins; reaction rates (chemistry); solubility

DE-01961 **ERSHOFF, BENJAMIN H., Inst. Biol. Res., Culver City, Cal.**
dental structure..periodontium; trauma; stress; radiation effects..whole body radiation; purified diet; radiation protection; cysteamine; (2-mercaptoethyl) guanidine; electroshock; temperature; hypoxia

DE-01962 **ASH, MAJOR M., Sch. Dent., Univ. Michigan, Ann Arbor, Mich.**
dental occlusion; dental stress analysis; dentistry.. mastication; instrumentation-methodology; muscle contraction

DE-01963 **MEDAK, HERMAN, Col. Dent., Univ. Illinois, Chicago, Ill.**
cell dedifferentation; cheek; dental structure..gingiva; epithelium; exfoliative cytology; keratinization; lip; mouth; mucous membranes; palate; smoking; tongue

DE-01969 **WELLS, HERBERT, Harvard Sch. Dent. Med., Boston, Mass.**
growth factors; salivary glands; pancreas; pancreatin; diet; proteases; taste; sense organs; nerves.. denervation

DE-01971 **HOFFMAN, RICHARD L., Col. Dent., Univ. Illinois, Chicago, Ill.**
cell division..mitosis; dental structure..periodontium; dental structure..tooth germ; histogenesis; infants (animals)..newborn; tooth eruption factor; transplantation; tritium

(cont'd)

DENTAL (CONTD)

DE-01972 MOODY, WILLIS E., Sch. Ceramic Eng., Georgia Inst. Tech., Atlanta, Ga.
apatites; crystallization; dental fillings; dental structure.. enamel; diffusion; ionic bonds

DE-01989 STALING, LEAH M., Sch. Dent., Univ. Maryland, Baltimore, Md.
dental occlusion; dentistry..mastication; jaw movements; jaws..mandible; muscle..skeletal muscle; potentials.. membrane potentials

DE-01995 CHASE, ROBERT A., Sch. Med., Stanford Univ., Stanford, Cal.
palatopharyngeal anomalies; speech; cleft palate prosthesis; oral--facial surgery; therapy; primates.. monkeys

DE-01996 DeSHAZER, DOUGLAS O., Col. Dent., Univ. Nebraska, Lincoln, Nebr.
dentistry; surface properties; hydroxyapatite; crystallography

DE-01998 YOUNG, GEORGE R., Sch. Dent., Univ. Missouri, Columbia, Mo.
dental disease..periodontal disease; inflammation; chemotaxis; blood cells..leukocytes; cell culture; polypeptides

DE-01999 KNIFFEN, JARED C., J. Hillis Miller Hlth. Cr., Univ. Florida, Gainesville, Fla.
cell components..endoplasmic reticulum; cell components.. Golgi apparatus; cell components..organelles; isoproterenol; salivary glands hyperplasia; salivary glands hypertrophy; secretory mechanisms; submandibular gland; tritium

DE-02005 SAMACHSON, JOSEPH, Veterans Administration Hosp., Hines, Ill.
calcification; cartilage; bone; dental structure..dentin; dental structure..enamel; radiolabeled calcium; radiolabeled strontium; antimetabolites; fluorides; apatites; ion exchange; tetracycline

DE-02006 LANGELAND, KAARE, Sch. Dent., State Univ. New York, Buffalo, N.Y.
dental prosthesis; dental materials; dental fillings; dental structure..pulp; dental structure..odontoblasts; dental structure..dentin; criteria; immunology..antigens; inflammation; primates..monkeys

DE-02010 SALLEY, JOHN J., Sch. Dent., Univ. Maryland, Baltimore, Maryland
dietary deficiency; mouth neoplasms; irritants; stress; electrodes; vitamin; hormones; carcinogenesis

DE-02011 LITTLE, MARGUERITE F., Eastman Dent. Dispensary, Rochester, N.Y.
age; binding; calcification; calcium; dental structure.. enamel; dental structure..teeth; fluorides; phosphorus; proteins

DE-02012 GAVAN, JAMES A., Col. Med., Univ. Florida, Gainesville, Fla.
growth; bone..skull; jaws..mandible; primates..Macaca mulatta; infant animals; pregnancy..placental transfer; dyes; implants

DE-02015 SOBEL, ALBERT E., Beth Israel Hosp., New York, N.Y.
calcification; dental structure..teeth; dental caries; collagen; crystallography; solubility; osteogenesis; mucopolysaccharides; chondroitin sulfate; bone; elastin; saliva

DE-02017 ASGAR, KAMAL, Sch. Dent., Univ. Michigan, Ann Arbor, Mich.
alloys; chromium; cobalt; dental materials; dental prosthesis..dentures; heat

DE-02018 MANLY, RICHARD S., Sch. Dent. Med., Tufts Univ., Boston, Mass.
dental caries; decalcification; dental structure..enamel; carbohydrates; phosphates; membrane permeability and transport; oxidation--reduction; ion exchange and transport

DE-02021 OSTBY, B. NYGAARD, Sch. Dent., Univ. Oslo, Oslo, Norway
dental structure..enamel; dental structure..dentin; dental structure..pulp; calcification; dental caries; therapy evaluation; fluoridation; fluorides; dental prosthesis; radiolabeled phosphorus

DE-02031 LUND, MELVIN R., Sch. Dent., Loma Linda Univ., Loma Linda, Cal.
dental structure..teeth; dental structure..dentin; dental structure..pulp; dental fillings..cavity preparation; oxidoreductases..succinate dehydrogenase; phosphatases..adenosine triphosphatase; choline esterases

DE-02033 MERRILL, RALPH G., Henry Ford Hosp., Detroit, Mich.
nervous system..alveolar nerve, inferior; injury; dental surgery; regeneration

DE-02034 BARRETT, MURRAY J., Sch. Dent., Univ. Adelaide, Adelaide, South Australia
ethnic groups..Australian aborigines; anthropometry; dental structure; children; bone..skull; archeology; longitudinal study; ecology, human; face; jaws; growth

DE-02035 WARWICK, WARREN J., Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
salivary glands; mucous membrane; pancreatic cystic fibrosis; secretory mechanisms; diagnostic tests; enzymes; oxygen consumption

DE-02036 WUEHRMANN, ARTHUR H., Sch. Dent., Univ. Alabama, Birmingham, Ala.
bone disorders; dosage; jaws..mandible; necrosis; radiation effects; time; x-rays

DE-02038 ZAFRAN, JACK N., Albert Einstein Med. Cr., Philadelphia, Pa.
dentistry..mastication; jaw movements; muscle contraction; cerebrovascular disorders; instrumentation-methodology; dental oscillography

DE-02041 ZANDER, HELMUT A., American Academy Periodontology, Peoria, Ill.
dental disease..periodontal disease; geographical sites; information exchange; travel

DE-02049 WEIDMANN, STEPHEN M., Sch. Dent., Univ. Leeds, Leeds, England
dental structure..enamel; proteins; chemical structure

DE-02055 BOLDEN, THEODORE E., Sch. Dent., Meharry Med. Col., Nashville, Tenn.
lacrimal apparatus; salivary glands; exocrine glands; age; sex difference; irritants; gonadectomy

DE-02058 ROSEN, SAMUEL, Col. Dent., Ohio State Univ., Columbus, Ohio
genetics; dental caries; dental caries inhibitors; dental structure; microorganisms; germ-free

DE-02059 GEIGER, ARNOLD M., Sch. Dent., Oral Surg., Columbia Univ., New York, N.Y.
dental occlusion; dental disease..periodontal disease; dental structure..teeth; dental structure.. gingiva; dentistry..mastication; dental calculus; dental stress analysis; dental health; age; classification; interviews; muscle tone

DE-02060 TUCHMANN-DUPLESSIS, H., Fondation d'Endocrinologie Embryologique, Paris, France
oral-facial anomalies; congenital abnormalities; teratogenic agents; immunology, antibodies; pregnancy

DE-02061 HOUSKA, CHARLES R., Col. Eng., Virginia Polytechnic Inst., Blacksburg, Va.
dental materials; alloys; hardness; molecular structure; laboratory facilities

DE-02062 SCOTT, DONALD, Jr., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
nerve impulse transmission; dental structure..teeth; dental structure..dentin; nerves..neurons; nervous system..afferent nerves; thermoreception; caloric stimulation; electrophysiology

DE-02066 PENNEL, BILLY M., Col. Dent., Univ. Tennessee, Memphis, Tenn.
dental surgery; dental structure..alveolus; injury..wound healing

DE-02068 FONG, CHESTER, Univ. California Med. Cr., San Francisco, Cal.
dental structure..teeth; dental structure..pulp; dental structure..odontoblasts; dental transplantation; histocompatibility; primates.. Macaca mulatta; cell components..cell nucleus; deoxyribonucleic acid; tritium; radiation effects

DE-02069 RALSTON, H.J., Col. Phys., Surg., Univ. Pacific, San Francisco, Cal.
sensory mechanisms; mouth; jaws..mandible; dental structure..pulp; dental structure..periodontium; nerve impulse transmission; electrostimulus; mucous membrane; tongue; nervous system..mandibular nerve; anesthetics

DE-02074 DACHI, STEPHEN F., Col. Dent., Univ. Kentucky, Lexington, Ky.
dental fillings..cavity preparation; hypnotics and sedatives; prednisolone; dental structure..pulp; anti-inflammatory agents; dental materials..adhesives; dental materials..amalgam

DE-02079 GOWGIEL, JOSEPH M., Sch. Dent., Loyola Univ., Chicago, Ill.
blood vessels; dental structure..alveolus; dental structure ..ameloblasts; dental structure..dental follicle; dental structure..odontoblasts; dental structure..tooth germ; dental structure..tooth root; growth; radiation effects

DE-02082 KAPUR, KRISHAN K., Sch. Dent., Univ. Detroit, Detroit, Mich.
dentistry..mastication; threshold; touch; dental structure..teeth; mucous membrane; anesthesia; instrumentation-methodology; sound frequency; adults

DE-02083 TIRK, THEODORE M., Eastman Dental Disp., Rochester, N.Y.
dental structure..periodontium; dentistry..orthodontics; dental diseases..periodontal disease; instrumentation--methodology; longitudinal study

DE-02085 DECKER, JAY D., Sch. Dent., Univ. Washington, Seattle, Wash.
dental structure..enamel organ; dental structure..ameloblasts; capillary beds; basement membrane; embryonic induction; histogenesis

DE-02087 HOLLAND, ROBERTO, Faculdade de Farmacia, Odontologia de Aracatuba, Aracatuba, Est. S.P. Brazil
dental structure..pulp; connective tissue; injury..wound healing; dental prosthesis..pulp capping; glycoproteins; mucopolysaccharides; proteins; nucleoproteins

DE-02091 STAPLE, PETER H., Sch. Dent., State Univ. New York, Buffalo, N.Y.
diphenylhydantoin; homeostasis; gingival hyperplasia; injuries..wound healing; pituitary gland; adrenal glands; salicylates; drugs interaction

DE-02096 BURFORD, HUGH J., Bowman Gray Sch. Med., Winston-Salem, N.C.
membrane permeability and transport; radiolabeled phosphorus; phospholipids; phosphatidopeptides; blood circulation dynamics; submandibular gland; urinary bladder; salt gland, nasal; saliva; sodium chloride

DE-02099 CHERNICK, WARREN S., Hahnemann Med. Col., Hosp., Philadelphia, Pa.
saliva; submandibular gland; secretory mechanisms; nervous system..sympathetic nervous system; sympatholytic agents; ion; proteins; enzymes; carbohydrates

DE-02114 SORENSEN, SOREN E., Sch. Dent., State Univ. New York, Buffalo, N.Y.
dental materials; golds; alloys; metal; tensile strength

DE-02116 SHIP, IRWIN I., Philadelphia Gen. Hosp., Philadelphia, Pa.
stomatitis..aphthous stomatitis; hospitals patients; gastrointestinal disorders; mental disorders; bacteria.. Mycoplasma; bacteria..L--form bacteria

DE-02117 KAPUR, KRISHAN K., Sch. Dent., Univ. Detroit, Detroit, Mich.
dental prosthesis..dentures; dentistry..mastication; taste; salivation

DE-02120 SREEBNY, LEO M., Sch. Dent., Univ. Washington, Seattle, Wash.
nucleases..deoxyribonuclease; nucleases..ribonuclease; carbohydrases..amylase; proteases; proteins; parotid gland; submandibular gland; pancreas; primates..monkeys

DE-02135 PARTHE, ERWIN, Sch. Eng., Univ. Pennsylvania, Philadelphia, Pa.
apatites; dental structure; molecular structure; crystallography; synthesis; mental complexes; chemical bonds

DE-02147 MATEER, RICHARD S., Col. Eng., Univ. Kentucky, Lexington, Ky.
dental materials..amalgam; alloys; metal complexes; crystallization; gold; crystal growth inhibitors

DE-02160 GREENER, EVAN H., Sch. Dent., Northwestern Univ., Chicago, Ill.
electrochemistry; dental materials..amalgam; metals; alloys; potentials; electrolytes

DE-02164 SUPRINICK, HARRY, Sch. Eng., State Univ. New York, Buffalo, N.Y.
dental materials..amalgam; heavy metals; alloys; chemical structure; synthesis; metal complexes; particle size

DE-02180 ZINNER, DORAN D., National Children's Cardiac Hosp., Miami, Fla.
bacteria..Streptococcus; genetic strains; serology; dental caries; epidemiology; immunological tests

DE-02181 McCLURE, ROBERT C., Sch. Vet. Med., Univ. Missouri, Columbia, Mo.
antibiotics..tetracycline; maternal--fetal; osteogenesis; dental structure..teeth; dental structure..periodontium; congenital abnormalities; teratogenic agents

DE-02183 BRUDEVOLD, FINN, Forsyth Dental Cr., Boston, Mass.
research programs; dental research; dental structure.. teeth; dental structure..enamel; chemical structure; fluorides; solutions..aqueous solutions; hydroxyapatite; saliva; crystallization

DE-02192 LUNIN, MARTIN, Sch. Dent., Univ. Maryland, Baltimore, Md.
tetracycline; dental health; children; chemotherapy; pregnancy; cooperative study; longitudinal study

DE-02198 MITCHELL, DAVID F., Sch. Dent., Indiana Univ., Indianapolis, Ind.
antibiotics..tetracycline; calcification; dental structure..teeth; dental fillings.. sealing properties; hypervitaminosis; vitamin D; survey

DE-02225 HEFFERREN, SANDRA M., American Dental Assn., Chicago, Ill.
luminescence; calcification; dental structure.. dentin; dental structure..enamel; bone; collagen; injuries; dental caries; proteins; peptides; amino acids; chemical bonds..bond cleavage; instrumentation--methodology

DE-02244 EICHHORN, JOHN H., Sch. Dent., Univ. Pittsburgh, Pittsburgh, Pa.
membrane permability and transport; mucous membrane; microcirculation; adrenal cortex hormones; blood flow; vasoactive agents..vasodilators; insulin; estrogens; amines; injuries..wound healing

DE-02247 RODRIGUEZ, MARIO S., Sch. Dent., Loyola Univ., New Orleans, La.
amino acids; tissue; dental structure..teeth; dental structure..gingiva; dental structure..alveolus; mucus; bone; ligaments; dental disease..gingival disease; dental disease..periodontal disease

DE-02256 ARNOLD, JAMES S., Donald N. Sharp Mem. Community Hosp., San Diego, Cal.
bone resorption; proline; hydroxyproline; collagen; dental structure..dentin; dentition; injuries; inflammation; hypoxia; bone

DE-02270 GLAUSER, RUSSELL O., Indian Hlth. Cr., Intermountain Sch., Brigham City, Utah
dentistry..orthodontics; children; ethnic groups American Indians; dental occlusion; longitudinal study; medical records

DE-02284 NIKIFORUK, GORDON, Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
dental structure..enamel; proteins; amino acids; lipids; carbohydrates; phosphorus; calcium; binding

DE-02286 JURAND, JERRY G., Col. Dent., Univ. Tennessee, Memphis, Tenn.
dental disease..periodontal disease; hypersensitivity.. delayed hypersensitivity; immunology..antigens; immunology..antibodies; proteins

DE-02287 HENRIQUES, BASIL L., Massachusetts Mem. Hosps., Boston, Mass.
tooth storage; dental transplantation; dental structure.. pulp; dental structure..odontoblasts; culture media

DE-02290 ERAUSQUIN, JORGE, Fac. Odontologia, Univ. Buenos Aires, Buenos Aires, Argentina
dental structure..tooth root canal; dental structure..periodontium; dental fillings

DE-02298 CARNEIRO, JOSE, Sch. Med., Univ. Virginia, Charlottesville, Va.
proteins; collagen; dental structure..periodontium; dentistry..mastication; dental disease..periodontal disease; growth; infant animals..newborn

DE-02299 HAFT, EVERETT E., Col. Eng., Kansas State Univ., Manhattan, Kans.
dental stress analysis; dental structure.. periodontium; dental structure..tooth root; ligaments; mathematical models

DE-02308 SELIGER, WILLIAM G., Col. Vet. Med., Colorado State Univ., Ft. Collins, Colo.
bone; dental structure..periodontium; lymphatic system; blood vessels; body fluids; liquid flow impedance

DE-02318 ASH, MAJOR M., Sch. Dent., Univ. Michigan, Ann Arbor, Mich.
telemetering; hydrogen--ion concentration; instrumentation--methodology; dental caries; dental calculus; mouth

DE-02326 HENRIQUES, BASIL L., Massachusetts Mem. Hosps., Boston, Mass.
salivary glands; electrolytes; saliva; enzyme inhibitors; reaction sites; perfusion; secretory mechanisms; membrane permeability and transport; antimetabolites

DE-02327 HENRIQUES, BASIL L., Massachusetts Mem. Hosps., Boston, Mass.
salivary glands; glycoproteins; secretory mechanisms

DH-00001 GISH, CHARLES W., Indiana State Bd. Health, Indianapolis, Ind.
dental caries; stannous fluoride; dentifrices; children; longitudinal study

DH-00003 FULTON, JOHN T., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.
dental caries; dental disease..periodontal disease; dental health; socioenvironment; geographical sites.. United States; age; sex difference; ethnic groups..race; education; occupations; family; survey

DH-00004 SHIERE, FREDERICK R., Sch. Dent. Med., Tufts Univ., Boston, Mass.
children; dental caries; sodium fluoride; stannous fluoride

DH-00015 HERBERTSON, JAMES E., Sch. Dent., Univ. Kansas City, Kansas City, Mo.
education..dental education; education..audiovisual aids

DH-00018 SZWEJDA, LOUIS F., Michigan Dept. Hlth., Lansing, Mich.
stannous fluoride; children; dental caries inhibitors; sodium fluoride

DH-00022 BRUDEVOLD, FINN, Forsyth Dental Infirmary, Boston, Mass.
preventive medicine; public health; children; dental caries inhibitors; fluorides; therapy evaluation; geographical sites..Massachusetts computer analysis; dental disorders; dental caries; family; socioenvironment; personality; congenital abnormalities

DH-00024 LAW, FRANK E., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.
child development; dental caries inhibitors; dental health; diet; education..elementary education; geographical sites.. North Carolina; geographical sites..Pennsylvania; geographical sites..West Virginia; health department; longitudinal study; sodium fluoride

DH-00036 LANG, ROBERT L., Sch. Dent., Univ. Oregon, Portland, Oregon
education..dental education; programmed learning; instrumentation--methodology; education..curriculum; academic achievement; criteria

DH-00037 RANDALL, PETER, Children's Hosp., Philadelphia, Pa.
cleft palate; diagnostic tests; longitudinal study; speech disorders; dental surgery; surgery..postoperative

DH-00046 HILL, IDEN N., Zoller Mem. Dent. Clinic, Univ. Chicago, Chicago, Ill.
dental health; epidemiology; children; fluoridation;

DH-00048 JORDAN, WILLIAM A., Minnesota Dept. Hlth., Minneapolis, Minn.
fluorides; dental caries; children; preventive medicine; therapy evaluation; geographical sites.. North Dakota; geographical sites..Minnesota; longitudinal study

DH-00049 PETERSON, JOHN K., North Dakota Dept. Hlth., Bismark, N.D.
dental health; children; preventive medicine; fluorides; dental caries inhibitors; therapy evaluation; travel; longitudinal study

DH-00076 RESWICH, JAMES B., Case Inst. Technology, Cleveland, Ohio
dental occlusion; jaw movements; dentistry.. mastication; instrumentation; biological models; dental structure..teeth; dental prosthesis

(contd)

LISTING OF GENERAL RESEARCH AREAS

DENTAL (CONTD)

DH-00082 SAXE, STANLEY R., Univ. Kentucky Med. Cr., Lexington, Ky.
dental health; food; dental calculus; dental structure..gingiva; dental structure..alveolus; bone; dental disorders..periodontal disorders

HD-00154 BJORK, ARNE, Royal Dental Col., Copenhagen, Denmark
growth; face; children; implants

HD-00155 ROGERS, JAMES B., Sch. Dent., Univ. Louisville, Louisville, Ky.
aging; mouth; genetics; diet; environment; dental structure; blood vessels; nerves; salivary glands; radiation effects; methylcholanthrene; gastrointestinal neoplasms; sarcoma

HD-00157 SAVARA, BHIM S., Sch. Dent., Univ. Oregon, Portland, Ore.
growth; oral--facial anomalies; dentition; nutrition; genetics; children; anthropometry; longitudinal study

HD-00158 JOHNSON, NORMAN P., Dixon State Sch., Dixon, Ill.
children; mental retardation; dental structure..teeth; dental structure..enamel

HD-00159 WELLS, HERBERT, Sch. Dent. Med., Harvard Univ., Boston, Mass.
brain..hypothalamus; salivary glands; growth; brain lesions; dimorphism (biology); testosterone; nerves.. innervation; nerve growth promoting protein, sympathetic; salivary glands diseases

HD-00162 BUEKER, ELMER D., Col. Dent., New York Univ., New York, N.Y.
tooth eruption factor; submandibular gland; fractionation; growth factors

HD-00166 HAYDEN, JESS, Jr., Sch. Med., Dent., Loma Linda Univ., Loma Linda, Cal.
nerves..innervation; nervous system..trigeminal nerve; nervous system..alveolar nerve, inferior; infant human.. newborn; fetus; joints..temporomandibular joint; dental structure..dental follicle; embryology

HD-00169 CHAUDHRY, ANAND P., Sch. Dent., Univ. Pittsburgh, Pittsburgh, Pa.
cleft palate; cortisone; dosage; fetus

HD-00174 HALL, H. DAVID, Sch. Dent., Univ. Alabama, Birmingham, Ala.
growth; body build; carbohydrases..amylases; sialoadenectomy; proteins; nerves..denervation; salivary glands

HD-00177 KOSKI, P. KALEVI, Univ. Turku, Hameenkatu, Turku, Finland
bone..skull; growth; jaws..mandible; fetus; infants.. animals..newborn; transplantation; limbs; cartilage

HD-00179 SARNAT, BERNARD G., Mount Sinai Hosp., Los Angeles, Cal.
bones..skull; growth; eye surgery; infant animals

HD-00180 HILL, MARVIN F., Sch. Med., Creighton Univ., Omaha, Nebr.
submandibular gland; infant animals..newborn; phosphatases; choline esterase; oxidoreductases; aging

HD-00184 WAJDA, STANISLAW H., Sch. Dent., Fairleigh Dickinson Univ., Teaneck, N.J.
genetics; cephalometry; biometry; dentistry..orthodontics; children; bone..skull; jaws

HD-00185 BERNICK, SOL, Sch. Med., Univ. Southern California, Los Angeles, Cal.
ACTH; adrenalectomy; aging; bone; cortisone; dental structure..periodontium; dental structure..teeth; estrogens; hormones; hypophysectomy; hypothyroidism; joints.. temporomandibular joints; ossification; testosterone; thiouracil; thyroid gland; thyroidectomy..radiothyroidectomy

HD-00339 BREG, W. ROY, Southbury Training Sch., Southbury, Conn.
mental retardation; monoolism; congenital abnormalities; genetics..chromosomes; genetics..sex chromosomes; family

HD-00993 KROGMAN, WILTON M., Grad. Sch. Med., Univ. Pennsylvania, Drexel Hill, Pa.
child development; anthropometry; sex difference; oral--facial anomalies; dental structure; computer analysis

HD-01152 GILDA, J. EDWARD, Eastman Dental Disp., Rochester, N.Y.
bone..skull; growth; implants; osteogenesis; primates.. Macaca mulatta; radiolabeled calcium; dyes

HD-01153 PRUZANSKY, SAMUEL, Cleft Palate Clinic, Chicago, Ill.
handicapped children; congenital abnormalities; head; bone deformities; oral--facial anomalies; dental structure; cleft palate; medical records; diagnostic tests; therapy evaluation; cephalometry; audiometry; verbal behavior; genetics; mental retardation; child development

HD-01841 MOLLER, PALMI, Univ. Alabama Med. Cr., Birmingham, Ala.
cleft palate; cleft lip; geographical sites.. Europe; survey; travel; genetics; oral--facial anomalies; palatopharyngeal anomalies

HD-01842 PROVENZA, D. VINCENT, Sch. Dent., Univ. Maryland, Baltimore, Md.
embryology; dentinogenesis; cell differentiation; cell types; dental structure..teeth; cell components; primates..Macaca mulatta

HD-01843 MILLER, EARL R., Univ. California Med. Cr., San Francisco, Cal.
oral--facial anomalies; speech; cleft palate prosthesis; diagnostic tests; therapy evaluation; swallowing; age; sex differences

HD-01845 BAER, MELVYN J., Sch. Dent., Univ. Detroit, Detroit, Mich.
longitudinal study; bone..skull; face; growth, bone resorption; staining

HD-01846 RICHARDSON, ELISHA R., Sch. Dent., Meharry Med. Col., Nashville, Tenn.
head; jaws; dental structure..teeth; child development; ethnic groups..Negroes; longitudinal study

HD-01848 FITZGERALD, LAURENCE R., Univ. Tennessee Med. Units, Memphis, Tenn.
dentinogenesis; hypoxia; pregnancy; infant animals

NB-05755 WEIS, PEDDRICK, Col. Dent., New York Univ., New York, N.Y.
submandibular gland; secretory mechanisms; dimorphism (biology); nerve growth promoting protein, sympathetic; immune sera; androgens; radiolabeled carbon

RH-00252 JOLLEY, HOMER R., Sch. Dent., Loyola Univ., New Orleans, La.
dental structure, teeth; radioassay; radiation fallout; radioisotopes, strontium 90; monitoring

RH-00343 GUZMAN, CESAR A., Eastman Dental Disp., Rochester, N.Y.
radioisotopes..strontium 90; dental structure..pulp; dental structure..periodontium; dentinogenesis; radiation effects

DENTAL PROGRAM-PROJECT COMMITTEE

AM-06375 GLIMCHER, MELVIN J., Massachusetts Gen. Hosp., Boston, Mass.
research programs; molecular biology; bone; skeleton; dental structure..teeth; minerals; tissue; calcification

DE-00853 MORRIS, HUGHLETT L., Col. Med., State Univ. Iowa, Iowa City, Iowa
diagnostic tests; cleft palate; children; speech; cinefluorography; research programs

DE-01244 SILVERMAN, SIDNEY, Col. Dent., New York Univ., New York, N.Y.
longitudinal study; therapy; cleft palate; harelip; cytology; aging; electronic recording; growth; dentistry.. mastication; swallowing; respiration; speech; posture; face; social psychology; education..audio--visual aids; research programs

DE-01697 FORREST, EDWARD J., Sch. Dent., Univ. Pittsburgh, Pittsburgh, Pa.
research programs; cleft palate; surgery; oral-facial anomalies; speech; hearing; social psychology; child development; family..parents

DE-01774 COOPER, FRANKLIN S., Haskins Lab., N.Y.C.
electromyography; instrumentation; muscle contraction; perception; research programs; speech; speech disorders

DE-01836 BALBER, GEORGE, Variety Children's Res. Fdn., Miami, Fla.
cleft palate; cleft lip; rehabilitation; therapy evaluation; longitudinal study; children; dentistry..orthodontics; dental prothesis; research programs; social adjustment; psychological tests; speech; hearing; oral-facial surgery

DE-01837 SUBTELNY, J. DANIEL, Eastman Dental Disp., Rochester, N.Y.
cleft palate; speech; research programs; computer analysis; palatropharyngeal anomalies; oral--facial surgery; transplantation..autotransplantation; flowmeters; strain gage; photography

DE-01849 YALE, SEYMOUR H., Col. Dent., Univ. Illinois, Chicago, Ill.
research programs; joints..temporomandibular joint; teaching; education..universities; dental occlusion; respiration; swallowing; speech

DE-01850 ARMSTRONG, WALLACE D., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
fluorides; homeostasis; parathyroid glands; sweat; intestinal absorption; skeleton; dental caries; plants; body fluids; kidney function; radiolabeled; research programs

DE-01899 PICKRELL, KENNETH L., Duke Univ. Med. Cr., Durham, N.C.
harelip; cleft palate; children; rehabilitation; therapy evaluation; oral-facial surgery; speech disorders; dentistry..orthodontics; longitudinal study; bone transplantation; psychology

DE-01945 POSNER, AARON S., Hosp. for Special Surgery, New York, N.Y.
aging; apatites; bone disorders; bone fractures; decalcification; epidemiology; minerals; osteoporosis; research programs; stoichiometry

DE-02014 HARRIS, STANLEY, Cleft Lip, Palate Inst., Chicago, Ill.
research programs; cleft palate; oral--facial surgery; cleft palate prosthesis; therapy evaluation; speech; posture; respiration; swallowing; instrumentation; computer analysis; embryology; infant human..newborn; galvanic skin response; temporomandibular joint; primates..monkeys

DE-02047 WILDE, CHARLES E., Jr., Sch. Dent., Univ. Pennsylvania, Philadelphia, Pa.
biochemistry; cell differentiation; dental structure; electron microscopy; embryology; histology; laboratory facilities; proteins; research programs; tissue culture

DE-02103 URIST, MARSHALL R., Cr. Hlth. Sci., Univ. California, Los Angeles, Cal.
research programs; chemical structure; dental structure.. teeth; bone; ion; calcium; phosphorus; binding; eye.. anterior chamber; body fluids; solutions; crystallization; calcification; dental disease

DE-02110 SCHNEYER, LEON H., Univ. Alabama Med. Cr., Birmingham, Ala.
research programs; dental research; salivary glands; saliva; mucopolysaccharides; mouth; secretory mechanisms

DE-02111 WILSDORF, HEINZ G.F., Sch. Eng., Applied Sci., Univ. Virginia, Charlottesville, Va.
research programs; dental materials..amalgam; dental materials..porcelains; dental surgery; dental prosthesis; dental stress analysis; molecular films..monomolecular films; chemical bonds; plastics; metal; alloys; blood coagulation; thrombosis

DE-02172 COOPER, HERBERT K., Lancaster Cleft Palate Clinic, Lancaster, Pa.
research programs; oral--facial anomalies; communicative disorders; dentistry..orthodontics; genetics..karyograms; teratogenic agents; speech; hearing; intelligence; child development; cephalometry; oral--facial surgery; age; criteria; infant human; family..parents; social adjustment; tissue culture; proteins

DE-02232 LEVY, BARNET M., Univ. Texas Dent. Br., Houston, Tex.
research programs; dental structure..periodontium; dental disorders; dental health; primates..marmoset; nutrition; endocrine glands; microorganisms; mutagens; tissue culture; pregnancy; carcinogens; radiation effects; saliva

DENTAL TRAINING COMMITTEE

DE-01779 SYLVESTER, CHARLES J., Henry Ford Hosp., Detroit, Mich.
dental caries; dental caries inhibitors; saliva; antibiotics; bacteria..Lactobacillus; bacteria..Streptococcus; immunity

DE-01780 SMITH, JAMES F., Sch. Med. Sci., Univ. Tennessee, Memphis, Tenn.
dentistry; carcinoma; mouth neoplasms; tobacco; family; age; sex difference; ethnic groups..race; occupations; epidemiology; irritants; primates..monkeys; human

DE-01794 TAMARIN, ARNOLD, Sch. Dent., Univ. Washington, Seattle, Wash.
cell components..granules; submandibular gland; radiolabeled; amino acid; cell components..endoplasmic reticulum

DE-01826 BOUCHER, LOUIS J., Sch. Dent., Marquette Univ., Milwaukee, Wis.
brain..mesencephalon; dentistry..mastication; joints.. temporomandibular joint; nervous system..trigeminal nerve; reflex

DE-01923 STRACHAN, DONALD S., Sch. Dent., Univ. Michigan, Ann Arbor, Mich.
esterases; chemical structure; enzyme substrate

ENDOCRINOLOGY

AM-00008 WERNER, SIDNEY C., Col. Phys., Surg., Columbia Univ., New York, N.Y.
thyroid gland disorders; thyrotropin; goiter..exophthalmic goiter; iodinated compounds; thyroid gland; blood..serum; thyroid activator

AM-00019 CAHILL, GEORGE F., Jr., Peter Bent Brigham Hosp., Boston, Mass.
ACTH; adrenal glands; adrenal glands disorders; aldosterone; angiotensin; kidney function; pituitary gland disorders; radiolabeled carbon; renal hypertension

AM-00110 LIEBERMAN, SEYMOUR, Col. Phys., Surg., Columbia Univ. N.Y.C.
aldosterone; steroid sulfates; steroid glucuronides; 17-ketosteroids; radiolabeled; androgens; 16-a-hydroxy-progesterone; steroids; liver; aging; dehydroepiandrosterone; immunology..antibodies; proteins; conjugates

AM-00113 ALTSZULER, NORMAN, New York Univ. Med. Cr., New York, N.Y.
pituitary hormones; adrenal cortex hormones; adrenal medulla hormones; radiolabeled carbon; tritium; glucose; carbonates; insulin; glycogenolysis; growth hormones; fatty acids; palmitic acid

AM-00131 BAKER, BURTON L., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
gastrointestinal system; hypophysectomy; hormones; epithelium; intestines; mucous membranes; stomach; pancreas; enzymes; salivary glands

AM-00180 MIGEON, CLAUDE J., Johns Hopkins Hosp., Baltimore, Md.
adrenal hypertension; congenital abnormalities; adrenogenital syndrome; 2--methyl--1,2--bis (3--pyridyl)--1--propanone; hypopituitarism; Triamcinolone; gonadotropins; hydrocortisone; sex differentiation abnormalities; hyperthyroidism; therapy; longitudinal study; growth hormones; children; pituitary gland; puberty precocious; hyperaldosteronism; aldosterone; bacterial meningitis; infant human..newborn; testosterone

AM-00254 BONDY, PHILIP K., Sch. Med., Yale Univ., New Haven, Conn.
adrenal cortex hormones; hydrocortisone; radiolabeled carbon; endocrine glands disorders; ribonucleic acid; Cushing's syndrome; cell components..cell nucleus; proteins; cell components..ribosomes; ACTH

AM-00267 INGBAR, SIDNEY H., Boston City Hosp., Boston, Mass.
thyroid gland; thyroid gland disorders; thyroid hormones

AM-00292 GREEP, ROY O., Sch. Dent. Med., Harvard Univ., Boston, Mass.
brain..hypothalamus; carbohydrates; gonadotropins; hormones; neurohormones; ovary..corpus luteum; pituitary gland; steroids; uterus

AM-00299 TURNER, CHARLES W., Univ. Missouri, Columbia, Mo.
mammary gland; estrogens; progesterone; progesterone analogs; growth; ovariectomy; adrenal cortex hormones; thyroxine; adrenalectomy

AM-00381 SEGALOFF, ALBERT, Alton Ochsner Med. Fdn., New Orleans, La.
gonadotropins; LH; FSH; prolactin

AM-00432 D'ANGELO, SAVINO A., Daniel Baugh Inst., Anatomy, Philadelphia, Pa.
pituitary gland; thyroid gland; brain..hypothalamus; stereotaxia; endocrine glands disorders; thyrotropin; cytology; hypophysectomy; adrenal glands; electrostimulus

AM-00462 LEATHEM, JAMES H., Rutgers Univ., New Brunswick, N.J.
adrenal cortex hormones; adrenalectomy; diet; dietary deficiency; growth hormones; hypophysectomy; nutrition; pregnancy; proteins; therapy

AM-00476 CRAFTS, ROGER C., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
hypophysectomy; anemia; hypothyroidism; hypoadrenalism; oxygen; hematopoiesis..erythropoiesis; thyroxine; cortisone; growth hormones; ACTH; bone marrow; proteins

AM-00504 BOLINGER, ROBERT E., Univ. Kansas Med. Cr., Kansas City, Kans.
catecholamines; insulin (resistance) tolerance; diabetes; glucose tolerance; hypoglycemia; muscles; adipose tissue; glucose

AM-00612 ASTWOOD, EDWIN B., New England Cr. Hosp., Boston, Mass.
pituitary hormones; immunological tests; peptides; MSH; growth hormones; prolactin; ACTH

AM-00774 SHETLAR, M.R., Oklahoma Med. Res. Inst., Oklahoma City, Okla.
parathyroid hormones; mucopolysaccharides; bone; glycoproteins; connective tissue; kidney; radiolabeled sulfur; radiolabeled carbon; radiolabeled calcium

AM-00786 GREIF, ROGER L., Cornell Univ. Med. Col., New York, N.Y.
thyroxine; thyronine; cell components..mitochondria; metabolic diseases; proteins; oxidoreductases..NADH2 diaphorase; proteins; thyrotoxicosis

AM-00957 KLITGAARD, HOWARD M., Sch. Med., Marquette Univ., Milwaukee, Wis.
thyroxine; triiodothyronine; oxygen consumption; oxidases ..cytochrome oxidases; dehydrogenases..succinate dehydrogenase; dehydrogenases..malate dehydrogenase; cytochrome C; cell components..mitochondria; liver

AM-01022 VAN WYK, JUDSON J., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
genetics; thyroid function; goiter; children; thyrotoxicosis; reserpine; 1--(p--diethylaminoethoxyphenyl)--1,2--diphenyl--2--chloroethylene; sexual precocity; pituitary stalk section; endocrine glands; breast neoplasms; growth hormones; insulin; hyperglycemia

AM-01094 CHAIKOFF, ISRAEL L., Univ. California, Berkeley, Cal.
antithyroid compounds; binding; blood..plasma; diiodotyrosine; radiolabeled carbon; radiolabeled iodine; thiocyanate; thiouracil; thyroid gland; thyroxine; tyrosine

AM-01156 PECHET, MAURICE M., Massachusetts Gen. Hosp., Boston, Mass.
thyroid gland; liver; growth hormones; hypoparathyroidism; growth; hypercalcemia; osteoporosis; parathyroid hormones; potassium; magnesium; phosphorus; calcium; adrenal cortex hormones; chemical structure; metabolites; adrenal glands; hirsutism

AM-01200 ENGSTROM, WILLIAM W., Milwaukee County Hosp., Milwaukee, Wis.
binding; blood..plasma; immunology..antibodies; insulin; thyroid gland disorders; thyroxine-binding proteins

AM-01236 McCANN, SAMUEL M., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
neurohormones; pituitary gland; brain..hypothalamus; LH; ascorbic acid; blood..plasma; ovary; FSH; prolactin; ACTH

AM-01237 PORTER, JOHN C., Univ. Texas Southwestern Med. Sch., Dallas, Tex.
ACTH; adrenal glands; anesthesia; blood flow; brain.. hypothalamus; corticosterone; neurohormones; pentobarbital; peptides; pituitary gland

AM-01240 SANDBERG, AVERY A., Hlth. Res., Inc., Buffalo, N.Y.
proteins; blood proteins..plasma proteins; adrenal cortex hormones..transcortin; hydrocortisone; binding; steroids; ACTH; pituitary gland; albumins..serum albumins; metabolites; chemical structure; deoxycorticosterone; bile

AM-01255 SCHNIEDER, JOHN J., Jefferson Med. Col., Philadelphia, Pa.
enzymes; hydrocortisone; hydroxylation reactions; hydroxysteroids; liver; metabolites; stereochemistry; steroid glucoronides; steroids; urine

AM-01256 HAYNES, ROBERT C., Jr., Sch. Med., Western Reserve Univ., Cleveland, Ohio
glucose; glucocorticoids; steroids; adrenal cortex hormones; alanine; liver; thymus

(contd)

ENDOCRINOLOGY (CONTD)

AM-04130 WYNN, JAMES O., Sch. Med., Duke Univ., Durham, N.C.
thyroxine analogs; cell components..microsomes; binding; diiodotyrosine; hydroquinone; tissue respiration

AM-04131 NELSON, DON H., Sch. Med., Univ. Southern California, Los Angeles, Calif.
ACTH; corticosteroid binding globulin; bioassay; adrenal glands disorders; pituitary gland disorders; adrenal cortex hormones; blood proteins..plasma proteins

AM-04134 MOLDAWER, MARC, Col. Med., Baylor Univ., Houston, Texas
gynecomastia; estrogens; androgens; children..adolescence; tritium; estrone; estradiol; estriol

AM-04179 SOLOMON, DAVID H., Sch. Med., Univ. California, Los Angeles, Cal.
thyrotropin; ion exchange and transport; thyroid gland; sodium; radiolabeled sodium; blood flow

AM-04221 MARTIN, MALCOLM M., Georgetown Univ. Hosp., Washington, D.C.
adrenal cortex hormones; infant human..premature infant; infant human..newborn; children; pituitary hormones

AM-04223 JORGENSEN, EUGENE C., Sch. Pharm., Univ. California, San Francisco, Cal.
chemical structure--biological activity; synthesis; thyroxine analogs

AM-04235 COLLIPP, P.J., Children's Hosp., Los Angeles, Cal.
bioassay; growth hormones; radiolabeled carbon; hypophysectomy; diagnostic tests; pituitary gland disorders; dwarfism; pituitary hormones; blood..plasma; acetylation

AM-04262 VESTERGAARD, PER BJORN, Rockland State Hosp., Orangeburg, N.Y.
column chromatography; hydrolysis; instrumentation-methodology; 17-ketosteroids

AM-04295 GIROUD, CLAUDE J.P., McGill Univ., Montreal, Canada
aldosterone; adrenal glands; adrenal cortex hormones; ACTH; minerals; glucocorticoids

AM-04328 REDDY, WILLIAM J., Peter B. Brigham Hosp., Boston, Mass.
ACTH; adrenal glands; adrenalectomy; cell components; deoxyribonucleic acid; growth hormones; pituitary hormones; radiolabeled carbon; ribonucleic acid; steroid hormones; testosterone

AM-04329 SOLOMON, SAMUEL, Royal Victoria Hosp., Montreal, Canada
16α-hydroxysteroids; adrenal glands; progesterone; radiolabeled carbon; fungi..Streptomyces; dehydroepiandrosterone

AM-04358 GUNDERSEN, KARE, Boston Dispensary, Boston, Mass.
bioassay; insulin; binding; blood proteins..serum proteins; heparin; diabetes

AM-04378 McARTHUR, JANET W., Massachusetts Gen. Hosp., Boston, Mass.
chemical structure--biological activity; FSH; gonadotropins; LH; menstrual cycle; pituitary gland

AM-04419 EVANS, TOMMY, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
polycystic ovary; menstruation; hirsutism; fertility; diagnostic tests; gonadotropins; ovulation; ovariectomy; therapy evaluation; ovulation inhibitors; ovulation accelerators; ovary neoplasms; uterus neoplasms; chemotherapy

AM-04428 LEIN, ALLEN, Sch. Med., Northwestern Univ., Chicago, Ill.
thyroid hormones; oxidation-reduction; chemical structure; reaction sites; proteins; binding; tissue respiration

AM-04429 MAHESH, VIRENDRA B., Med. Col. Georgia, Augusta, Ga.
hirsutism; estrogens; estradiol; dehydroepiandrosterone; androsterone; 5β-androstane-3α-ol-17-one; androstenedione; steroids; edema (generalized); aldosterone; deoxycorticosterone; polycystic ovary; 1-(p-diethylaminoethoxyphenyl)-1,2-diphenyl-2-chloroethylene; ovulation; amenorrhea

AM-04431 CLEVELAND, WILLIAM W., Sch. Med., Univ. Miami, Coral Gables, Fla.
adrenal glands; children; delta-16-androstene-3-01; fever; gonads; heart surgery; 17-hydroxycorticosteroids; infants, human; infectious diseases; 17-ketosteroids; steroids; stress

AM-04455 FLORSHEIM, WARNER H., U.S. Veterans Hosp., Long Beach, Cal.
thyroid function; pituitary gland; brain..regulatory centers; thyroxine-binding proteins; neurohormones; thyrotropin; (2,4-dichlorophenoxy) acetic acid

AM-04484 COOPER, DAVID Y., Hosp. Univ. Pennsylvania, Philadelphia, Pa.
catecholamines; hydroxylation reactions; steroids; adrenal glands; cell components..microsomes; 21-hydroxysteroids; trace elements; oxygenases

AM-04521 KOSTYO, JACK L., Sch. Med., Duke Univ., Durham, N.C.
growth hormones; proteins; amino acids; cardiac glycosides; corticosterone; FSH; ovary; membrane permeability and transport; amino acid--RNA ligases; muscles

AM-04596 LUNENFELD, BRUNO, Tel-Hashomer Hosp., Israel
gonadotropins; ovary; amenorrhea; menopause; pregnancy.. abortion; urine; uterus..endometrium; immunology; anti-gonadotropic agents

AM-04612 YATES, F. EUGENE, Sch. Med., Stanford Univ., Stanford, Cal.
ACTH..corticotropin-releasing factor; adrenal glands; brain..hypothalamus

AM-04613 TOMITA, KENKICHI, Grad. Sch., Univ. Wisconsin, Madison, Wis.
thyroid hormones; methylation; enzymes; 3,5-diiodo-4-hydroxybenzoic acid

AM-04659 SCHEVING, LAWRENCE E., Chicago Med. Sch., Chicago, Ill.
diurnal variations; blood cells..leukocytes; glucose; body temperature; body movement; adrenal cortex hormones; cell division; skin; hypophysectomy; ACTH

AM-04660 CAMPBELL, BENEDICT J., Univ. Missouri Med. Cr., Columbia, Mo.
copper; metal complexes; lysine vasopressin; oxytocin; chemical structure--biological activity

AM-04689 VAN MIDDLESWORTH, LESTER, Sch. Basic Med. Sci., Univ. Tennessee, Memphis, Tenn.
thyroxine; propylthiouracil; intestinal absorption; anti-thyroid compounds; binding; triiodothyronine; protein-bound iodine; iodine; liver

AM-04783 COHN, GEORGE L., Sch. Med., Yale Univ., New Haven, Conn.
kidney; tritium; steroids; chemical structure--biological activity; estrogens sulfates; glucuronic acid; liver; adrenal glands; transsulfurases..sulfotransferases; steroid sulfates

AM-04784 MEITES, JOSEPH, Col. Vet. Med., Michigan State Univ., East Lansing, Mich.
neuroendocrine systems; prolactin; breast neoplasms; lactation; tissue culture; pituitary neoplasms; ACTH; somatotropin; pituitary gland transplantation; pituitary hormones

AM-04822 FISHER, DELBERT A., Sch. Med., Univ. Arkansas, Little Rock, Ark.
basal metabolism; bioassay; brain..hypothalamus; children; hyperthyroidism; infants, human..newborn; pituitary gland; radiolabeled iodine; steroid hormones; thyroid function; thyrotropin

AM-04855 PETERSON, RALPH E., Col. Med., Cornell Univ., New York, N.Y.
edema (generalized); hypertension (systemic); pregnancy; adrenal glands disorders; aldosterone; tritium; adrenoglomerulotropin; metabolites

AM-04874 SIH, CHARLES J., Sch. Pharm., Univ. Wisconsin, Madison, Wis.
steroids; oxidation; fungi..Nocardia restrictus; fungi.. Penicillium citrinum; enzymes

AM-04899 PERON, FERNAND G., Worcester Fdn. Exptl. Biol., Shrewsbury, Mass.
adrenal glands; cell; cholesterol; ACTH; steroids

AM-04910 CHAVIN, WALTER, Grad. Sch., Wayne State Univ., Detroit, Mich.
thyroid function; growth; thyroidectomy..radiothyroidectomy

AM-04925 HUNGERFORD, GERALD F., Sch. Med., Univ. Southern California, Los Angeles, Cal.
adrenal cortex hormones; brain..pineal body; dietary deficiency; hypophysectomy; pituitary hormones; potassium; sodium; water-electrolyte balance

AM-04930 McKERNS, KENNETH W., Col. Med., Univ. Florida, Gainesville, Fla.
estrogens; NADP linked enzymes; oxidoreductases.. lactate dehydrogenases; estradiol; ACTH; hormones inhibitors; glucose; pentose pathway; enzymes; adrenal glands; pituitary gland; ovulation; pituitary hormones; steroids; adipose tissue; glucose; fatty acids; uterus.. myometrium contraction; oxytocin

AM-05027 BRUNJES, SHANNON, Sch. Med., Loma Linda Univ., Los Angeles, Cal.
ion-exchange chromatography; adrenal medulla; hypoglycemia; nervous system disorders; metabolic diseases; metabolites; catecholamines

AM-05086 NIKITOVITCH-WINER, MIROSLAVA B., Col. Med., Univ. Kentucky, Lexington, Ky.
brain..hypothalamus; ovulation; gonadotropins; pituitary gland; pituitary gland..median eminence; brain..cerebral cortex; oxytocin; vasopressin; neuroendocrine systems; neurohormones

AM-05105 DAUGHADAY, WILLIAM H., Sch. Med., Washington Univ., St. Louis, Mo.
diabetes; growth hormones; hormones; immunology.. antigens; instrumentation-methodology; insulin; pituitary gland; proteins; radiolabeled

AM-05110 MARKS, BERNARD H., Col. Med., Ohio State Univ., Columbus, Ohio
ACTH; endocrine glands disorders; epinephrine; stress; heart failure..congestive heart failure; ethionine; adrenalectomy; pituitary gland

AM-05146 BECKER, DAVID V., New York Hosp., Cornell Med. Cr., New York, N.Y.
antithyroid compounds; perchlorate; propylthiouracil; thyroid hormones; liver; bile ducts; radiolabeled iodine

AM-05158 St. CLAIR, LORENZ E., Col. Vet. Med., Univ. Illinois, Urbana, Ill.
thyroid function; radiolabeled iodine; thyroidectomy; infant animals..newborn; growth; dietary deficiency; iodine; hypophysectomy

AM-05190 PARKS, LEO W., Grad. Sch., Oregon State Univ., Corvallis, Ore.
sterols; funal..Saccharomyces cerevisiae; culture media

AM-05274 LEONORA, JOHN, Sch. Med., Loma Linda Univ., Los Angeles, Cal.
adrenal glands; chemical structure--biological activity; FSH; LH; ovary..corpus luteum; ovulation; reproductive system; steroid hormones

AM-05300 TAIT, SYLVIA A., Worcester Fdn., Shrewsbury, Mass.
ACTH; aldosterone; corticosterone; hemorrhage; hydrocortisone; hyponatremia; radiolabeled

AM-05301 SOFFER, LOUIS J., Mt. Sinai Hosp., N.Y.C.
adults; antigonadotropic agents; children; hypogonadism; urine

AM-05318 LIDDLE, GRANT W., Vanderbilt Univ., Sch. Med., Nashville, Tenn.
ACTH..corticotropin-releasing factor; adrenal cortex hormones; adrenal glands; aldosterone; chemical structure--biological activity; diurnal variation; hydrocortisone; pituitary gland

AM-05344 TABACHNICK, MILTON, Sch. Med., New York Med. Col., New York, N.Y.
thyroid hormones; binding; blood..serum; thyroxine; thyroxine analogs; albumins..serum albumins; globulins; triiodothyronine; cell components..cell membrane; membrane permeability and transport

AM-05369 SYMINGTON, THOMAS, Sch. Med., Univ. Glasgow, Glasgow, Scotland
perfusion; adrenal glands; ACTH; adrenal cortex hormones analogs; hydroxylases; steroids; hyperadrenalism

AM-05370 RYAN, KENNETH J., University Hosps. Cleveland, Cleveland, Ohio
collagen; connective tissue; mucopolysaccharides; reproductive system; steroid hormones

AM-05372 TYLER, FRANK H., Sch. Med., Univ. Utah, Salt Lake City, Utah
hydrocortisone, reaction rates (chemistry), mathematical models; computer; metabolites

AM-05436 PAULSEN, C. ALVIN, USPHS Hosp., Seattle, Wash.
pituitary gland; gonads

AM-05444 McGIRR, EDWARD M., Sch. Med., Univ. Glasgow, Glasgow, Scotland
proteins; thyroid gland; radiolabeled carbon; thyroglobulin; thyroid gland disorders; goiter

AM-05448 PERLOFF, WILLIAM H., Albert Einstein Med. Cr., Philadelphia, Pa.
gonadotropins; LH; FSH; polycystic ovary; endocrine glands disorders; ovary

AM-05449 STEINBERGER, EMIL, Albert Einstein Med. Cr., Philadelphia, Pa.
alkylating agents; cytology; cytotoxicity; epithelium; gonadotropins; heat; pituitary hormones; radiation effects; testis disorders

AM-05451 THOMAS, PATRICIA Z., Worcester Fdn. Exptl. Biol., Shrewsbury, Mass.
steroids; androgens; muscle..skeletal muscle; enzymes; cell components; pyridine nucleotides

AM-05452 MATTOX, VERNON R., Mayo Assn., Rochester, Minn.
cortisone; tritium; synthesis; conjugates; cortisone-21-β-D-glucuronic acid

AM-05532 WARREN, JAMES C., Sch. Med., Univ. Kansas, Kansas City, Kans.
dehydroepiandrosterone; fetus; ovary; pregnancy..placenta; radiolabeled carbon; sex hormones; sulfatases..steroid sulfatase

AM-05535 SCHWARTZ, IRVING L., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
vasopressin; chemical bonds..bond formation; kidney; urinary bladder; membrane permeability and transport; insulin; muscle; adipose tissue; oxytocin; antidiuresis

AM-05541 KELLEY, VINCENT C., Sch. Med., Univ. Washington, Seattle, Wash.
antirheumatic agents; binding; hydrocortisone; 17-hydroxycorticosteroids; proteins; rheumatic diseases

AM-05638 BAKKE, JOHN L., Pacific Northwest Res. Fdn., Seattle, Wash.
thyrotropin; bioassay; thyroid gland disorders; kidney; radiolabeled carbon; thyrotropin releasing factors; reaction rates (chemistry)

AM-05643 SWINGLE, WILBUR W., Bureau Res. Neurology, Psychiatry, Princeton, N. J.
adrenal glands; electrolytes; electroshock; pentylenetetrazol; cell fluids; anesthesia; pentobarbital; therapy; body water; mineralocorticoids; adrenalectomy; glucocorticoids; blood volume; deoxycorticosterone; sodium chloride; guanethidine; hypoglycemia

AM-05645 LEPKOVSKY, SAMUEL, Col. Agr., Univ. California, Berkeley, Cal.
thyroid function; pituitary gland; brain..hypothalamus; hypophysectomy; brain lesions; radiolabeled iodine; protein-bound iodine

AM-05655 KNOBIL, ERNST, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
amino acid; carbohydrates; cell components..cell membrane; fats; growth hormones; membrane permeability; muscle cells; proteins

AM-05656 MILLER, RICHARD A., Albany Med. Col., Albany, N.Y.
adrenal gland; brain..hypothalamus; hyperadrenalism; hypophysectomy; nervous system..adrenal nerves; pituitary gland..ectopic pituitary; pituitary gland..median eminence; stress

AM-05699 HOFMANN, KLAUS, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
chemical structure--biological activity; growth hormones

AM-05712 CADE, JAMES R., Col. Med., Univ. Florida, Gainesville, Fla.
aldosterone; corticosterone; ACTH; proteases..renin; angiotensin; sodium; potassium; adrenal glands; perfusion; hypophysectomy; adrenalectomy; nephrectomy

AM-05723 SCHOEN, EDGAR J., Kaiser Fdn. Res. Inst., Oakland, Cal.
adrenal glands; chorionic gonadotropins; cytology; enzymes; radiation effects; steroids; testis

AM-05725 DOWLING, J. THOMAS, King County Hosp., Seattle, Wash.
endocrine glands; transhydrogenases

AM-05739 RYAN, KENNETH J., Sch. Med., Western Reserve Univ., Cleveland, Ohio
gonadotropins; ovary; estrogens

AM-05744 McCARTHY, JOHN L., Col. Arts, Sci., Southern Methodist Univ., Dallas, Tex.
p-aminobenzoic acid; adrenal cortex hormones; thyroid gland; radiolabeled iodine; thyroidectomy; thyroxine

AM-05763 CORREA, PELAYO, Sch. Med., Univ. del Valle, Cali, Colombia, South America
geographical sites..Colombia; thyroid gland; hyperthyroidism; goiter; thyroid function; diagnostic tests; thyroid hormones; radiolabeled iodine; thyroid neoplasms; epidemiology

AM-05793 TROYER, JOHN R., Sch. Med., Temple Univ., Philadelphia, Pa.
neurosecretion; hibernation; pregnancy..abortion; dehydration (body fluids)

AM-05818 FRYE, B.E., Grad. Sch., Univ. Michigan, Ann Arbor, Mich.
embryology; islands of Langerhans; insulin; cortisone; hyperglycemia obesity, hereditary; transplantation; pancreas; growth

AM-05825 DOWLING, JAMES T., King County Hosp. System, Seattle, Wash.
peripheral vascular system; NADPH2; estrogens; androgens; thyronine

AM-05854 GILDER, HELENA, Sch. Med., Cornell Univ., New York, N.Y.
aldosterone; gastric pouch; nephrectomy; adrenalectomy; muscle; liver; electrolytes; mesentery

AM-05872 GALTON, VALERIE A., Dartmouth Med. Col., Hanover, N.H.
thyroid hormones; reaction sites; thyrotropin; epinephrine; norepinephrine; thyroid function

AM-05896 LABELLA, FRANK S., Sch. Med., Univ. Manitoba, Winnipeg, Manitoba, Canada
secretory mechanisms; cell types; pituitary gland; pituitary hormones; cell components..granules; reserpine; neurohormones; toxins

AM-05898 LITTLE, JAMES M., Sch. Med., Wake Forest Col., Winston-Salem, N.C.
p-aminohippurate; kidney function; tetraethyl ammonium chloride; thyroidectomy; thyronine; thyroxine analogs

AM-05904 KRUM, ALVIN A., Univ. Arkansas Med. Cr., Little Rock, Ark.
cholesterol; radiolabeled carbon; fatty acids; steroids; ACTH; LH; FSH; chorionic gonadotropins; adrenal glands; diet; tissue; testis; ovary

AM-05951 SCHTEINGART, DAVID E., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
hydrocortisone; isotope dilution (concentration) techniques; hyperadrenalism; obesity; diet; proteins; low calorie diet

AM-05954 MULROW, PATRICK J., Sch. Med., Yale Univ., New Haven, Conn.
adrenal glands; aldosterone; angiotensin; blood; kidney; metabolic diseases; proteases..renin

AM-05955 SOBEL, HARRY, Veterans Admin. Hosp., Sepulveda, Cal.
bioassay; estradiol; testosterone; insulin; growth hormones

AM-05980 BECK, LYLE V., Sch. Med., Indiana Univ., Bloomington, Ind.
glutathione; ascorbic acid; diabetes; hyperglycemia; growth hormones; adrenal cortex hormones; kidney; epinephrine; liver; radiolabeled iodine; cysteine; radiolabeled sulfur; pancreas; insulin

AM-06001 ARQUILLA, EDWARD R., Sch. Med., Univ. California, Los Angeles, Cal.
immunology..antibodies; insulin; diabetes; heat lability; proteins denaturation; binding; proteins; genetics; hemolysis

AM-06034 FOA, PIERO P., Sinai Hosp., Detroit, Michigan
hyperglycemic agents; pancreas; neoplasms; glucose; heart; insulin; diabetes; glucagon; radiolabeled carbon

AM-06046 INGLE, DWIGHT J., Univ. Chicago, Chicago, Ill.
neoplastic growth; cancer; adrenal cortex hormones; glycosuria; insulin; stress; diabetes; hypercortisonism; adrenalectomy; pancreatectomy; hydrocortisone; cortisone

AM-06055 HERRMANN, WALTER L., Sch. Med., Univ. Washington, Seattle, Wash.
estrogens; radiolabeled carbon; tritium; androgens; dehydroepiandrosterone; isotope dilution (concentration) techniques; adrenal glands neoplasms; 1--(p--diethylaminoethoxyphenyl)--1,2--diphenyl--2--chloroethylene; steroids; ovulation

(contd)

ENDOCRINOLOGY (CONTD)

AM-06056 **RUDMAN, DANIEL,** Goldwater Mem. Hosp., Welfare Island, New York, N.Y.
pituitary gland; ACTH; MSH; thyrotropin; adipose tissue; chemical structure--biological activity; fatty acids; species; lipid mobilizing factors (pituitary)

AM-06060 **GEMZELL, CARL A.,** University Hosp., Uppsala, Sweden
FSH; LH; pituitary gland; fractionation; ovary; steroid hormones; oxidoreductases..steroid dehydrogenases; radiolabeled carbon; tritium; menstrual cycle; polycystic ovary

AM-06085 **PLAGER, JOHN E.,** Med. Fdn. Buffalo, Inc., Buffalo, N.Y.
ACTH; adrenal glands; chemotherapy; endotoxins; hydrocortisone; hypoadrenalism; 2-methyl-1,2-bis(3-pyridyl)-1-propanone; pituitary gland

AM-06097 **LI, C.H.,** Sch. Med., Univ. California, Berkeley, Cal.
ovary; prolactin; LH; estrus; immunology..antigens

AM-06104 **SCHINDLER, WILLIAM J.,** Sch. Med., Baylor Univ., Houston, Tex.
brain..hypothalamus; thyrotropin releasing factors; neuroendocrine systems; chemical structure--biological activity; thyroid function; radiolabeled iodine; brain lesions; pituitary gland transplantation

AM-06128 **DEISS, WILLIAM P., Jr.,** Sch. Med., Indiana Univ., Indianapolis, Ind.
thyroglobulin; proteolysis; thyroid gland; radiolabeled carbon; amino acid; proteins; iodide; antithyroid compounds; atmosphere; buffers; enzymes substrate

AM-06129 **KASE, NATHAN G.,** Sch. Med., Yale Univ., New Haven, Conn.
sex hormones; aging; radiolabeled; polycystic ovary; endocrine glands disorders; ovary..Graafian follicle; steroid hormones; metabolites

AM-06130 **COMMON, ROBERT H.,** Sch. Agr., MacDonald Col., P. Quebec, Canada
estrogens; age; sex difference; cyclic functions; radiolabeled carbon

AM-06148 **BETHUNE, JOHN E.,** Sch. Med., Univ. Southern California, Los Angeles, Cal.
parathyroid hormones; parathyroid glands disorders; kidney disorders; bone disorders

AM-06164 **BOWERS, CYRIL Y.,** Sch. Med., Tulane Univ., New Orleans, La.
bioassay; thyroid hormones

AM-06259 **deROOS, ROBERT,** Sch. Arts, Sci., Univ. Missouri, Columbia, Mo.
steroid hormones; adrenal glands..interrenal gland; pituitary gland; ACTH; hypophysectomy; phylogeny

AM-06292 **RUEGAMER, WILLIAM R.,** Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
thyroxine analogs; synthesis; radiolabeled carbon; radiolabeled iodine; cholesterol; cell-free systems; enzymes; thyroid hormones; lipids; artherosclerosis; vitamin K

AM-06291 **PINCUS, GREGORY,** Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
research programs; sex hormones; cholesterol; steroids; aging; steroid hormones; endocrine glands; ACTH; adrenal cortex hormones

AM-06322 **WELSH, GEORGE W., 3rd,** Col. Med., Univ. Vermont, Burlington, Vt.
somatotropin; hydrocortisone; diabetes; pregnancy

AM-06323 **HOULIHAN, RODNEY T.,** Col. Agr., Pennsylvania State Univ., University Park, Pa.
adrenal glands; barometric decompression; cold; radiolabeled iodine; social space; stress; thyroid function

AM-06327 **GORSKI, JACK,** Sch. Life Sci., Univ. Illinois, Urbana, Ill.
endocrine glands; uterus; ovary..corpus luteum; growth; estrogens; proteins; ribonucleic acid; fractionation; cell

AM-06328 **SONENBERG, MARTIN,** Sloan-Kettering Inst. Cancer Res., New York, N.Y.
molecular weight; proteolysis; hormones inhibitors; growth hormones; acylation

AM-06347 **SALHANICK, HILTON A.,** Beth Israel Hosp., Boston, Mass.
progesterone; chemical structure--biological activity; pregnancy

AM-06368 **GRUMBACH, MELVIN M.,** Babies Hospital, N.Y.C.
child development; children; growth; hemagglutination inhibition; immunofluorescence; pituitary gland; somatotropin

AM-06369 **WESTPHAL, ULRICH F.,** Sch. Med., Univ. Louisville, Louisville, Ky.
steroids; proteins; corticosteroid binding globulin; steroid hormones; chemical structure; glycoproteins; orosomucoids

AM-06388 **PARLOW, ALBERT F.,** Sch. Med., Emory Univ., Atlanta, Ga.
gonadotropins

AM-06400 **DeGROOT, LESLIE J.,** Massachusetts Gen. Hosp., Boston, Mass.
chemical structure; enzymes; goiter..exophthalmic goiter; thyroid hormones; thyroiditis; thyrotoxicosis

AM-06401 **CAHILL, CHARLES L.,** Undergrad. Sch., Oklahoma City Univ., Oklahoma City, Okla.
species; chemical structure--biological activity; FSH; LH

AM-06403 **HICKMAN, CLEVELAND P., Jr.,** Univ. Alberta, Edmonton, Alberta, Canada
poikilotherms; seasonal variation; thyroid gland; thyroxine; iodine

AM-06412 **STRICKLER, HERBERT S.,** Allegheny Gen. Hosp., Pittsburgh, Pa.
fluorescence polarization; steroids

AM-06413 **BOWERS, CYRIL Y.,** Sch. Med., Tulane Univ., New Orleans, La.
endocrine glands; cholesterol esters; diet; sex difference; hormones; radiolabeled

AM-06415 **BIGLIERI, EDWARD G.,** San Francisco General Hosp., San Francisco, Cal.
adrenal glands neoplasms; aldosterone; collagen diseases; corticosterone; Cushing's syndrome; dehydroepiandrosterone; endocrine glands disorders; hydrocortisone; hypertension (systemic); obesity; radiolabeled carbon; tritium

AM-06427 **KLEEMAN, CHARLES R.,** Mount Sinai Hosp., Los Angeles, Cal.
adrenal cortex hormones; adrenalectomy; hypoadrenalism; kidney..renal medulla; kidney..renal tubules; pituitary gland; skin; urinary bladder; vasopressin; water-electrolyte balance

AM-06431 **SOUTHREN, A. LOUIS,** New York Med. Col., N.Y.C.
hydrocortisone; ACTH; Cushing's syndrome; DDD; aldosterone; metabolites; toxicology; dosage

AM-06439 **TONG, WINTON,** Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
thyroid gland; iodine; enzymes; tissue culture; thyrotropin; radiolabeled carbon; radiolabeled iodine; glucose; fatty acids; amino acids; cells

AM-06458 **FUJITA, TAKUO,** Sch. Med., Univ. Tokyo, Hongo, Tokyo, Japan
ACTH; urine; Cushing's syndrome; adrenogential syndrome; Addison's disease; hypopituitarism; diagnostic tests; hydrocortisone; dexamethasone; 2-methyl-1,2-bis (3-pyridyl)1-propanone

AM-06459 **HALL, PETER F.,** Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
LH; steroids; testis; reaction sites; radiolabeled carbon; cholesterol; triparanol; proteins; puromycin; actinomycin; fluorouracil; pregnenolone

AM-06602 **OFNER, PETER,** Lemuel Shattuck Hosp., Boston, Mass.
androstane; 3-ketosteroids; α-β-unsaturated ketosteroids; liver; radiolabeled carbon; tritium; isomers

AM-06603 **BRILL, NORMAN Q.,** Cr. Hlth. Sci., Univ. California, Los Angeles, Cal.
neuroendocrine systems; maternal-fetal; infants, animals; fetus; stress; adrenal cortex hormones; ACTH; nervous system..autonomic nervous system

AM-06605 **ALBRIGHT, EDWIN C.,** Sch. Med., Univ. Wisconsin, Madison, Wis.
diet; metabolites; radioisotopes..iodine 125; radiolabeled iodine; thyroid hormones; tissue

AM-06607 **BAILEY, RICHARD E.,** Sch. Med., Univ. Oregon, Portland, Oregon
aldosterone; blood; corticosterone; edema (generalized); endocrine glands disorders; hydrocortisone; radiolabeled carbon; tritium; urine

AM-06608 **MELBY, JAMES C.,** Massachusetts Mem. Hosps., Boston, Mass.
cholesterol; steroid hormones; antimetabolites; adrenal glands; hydrocortisone; aldosterone; ACTH; hypercholesteremia; hyperadrenalism; adrenal cortex hormones; androgens; estrogens

AM-06645 **DINGLEDINE, WILLIAM S.,** Med. Col. Virginia, Richmond, Va.
thyroid gland; blood; iodide; iodotyrosine; triiodothyronine; thyroxine; radiolabeled iodine; thyrotropin; goiter; thyroiditis; thyroid neoplasms; hyperthyroidism; cortisone; insulin; epinephrine

AM-06648 **SEIFTER, JOSEPH,** New York Med. Col., New York, N.Y.
lipid mobilizing factors, pituitary; chemical structure; metabolic diseases; acid--base equilibrium; hyperlipemia.. essential familial; electrolytes; peptides; lipids..plasma lipids; endocrine glands disorders; pregnancy; pituitary hormones..neurohypophyseal hormones

AM-06650 **GREEN, WILLIAM L.,** Seton Hall Col. Med., Jersey City, N.J.
goiter; iodide; 1-methyl-2-mercaptoimidazole; perchlorate; radiolabeled carbon; radiolabeled iodine; thiocyanate; thyroid gland; thyroid hormones; thyroid neoplasms; thyrotoxicosis; thyrotropin; tissue

AM-06651 **EIK-NES, KRISTEN B.,** Sch. Med., Univ. Utah, Salt Lake City, Utah
FSH; LH; gonadotropin; pregnenolone; ovary; testis; dehydroepiandrosterone; tritium; steroids; pregnancy

AM-06654 **BARLOW, JOSEPH J.,** Boston Lying-in Hosp., Boston, Mass.
estrogens; blood; urine; tritium; radiolabeled carbon; scintillation spectrometry

AM-06688 **MEEKER, C. IRVING,** Univ. Vermont, Burlington, Vt.
ovary; progesterone; testosterone; estrogens; menstruation disorders; adrenal glands; pregnancy; pregnancy..missed abortion; estrone; tritium; ovariectomy; adrenalectomy; fractionation; cooperative study

AM-06719 **CARR, HERMANN E., Jr.,** Sch. Med., Boston Univ., Boston, Mass.
aldosterone; blood..plasma; corticosterone; cortisone; gas chromatography; hydrocortisone; instrumentation-methodology; metabolites; urine

AM-06727 **DOMINGUEZ, JOSE M.,** Sch. Med., Western Reserve Univ., Cleveland, Ohio
somatotropin; diabetes; insulin; hemagglutination inhibition; diet; tolbutamide; fasting; proteins; pituitary gland

AM-06730 SAMUELS, LEO T., Col. Med., Univ. Utah, Salt Lake City, Utah
steroid hormones; enzymes; carcinogenesis; acetate; cell-free systems; androgens; messenger ribonucleic acid; deoxyribonucleic acid; estrogens

AM-06731 KLIMAN, BERNARD, Massachusetts Gen. Hosp., Boston, Mass.
adrenal glands; aldosterone; blood..plasma; gas chromatography; instrumentation-methodology; radiolabeled carbon; scintillation counters; tritium; urine

AM-06746 JACOBSOHN, GERT M., Hahnemann Med. Col., Philadelphia, Pa.
estrogens; plants; estrone; steroids

AM-06824 TAYMOR, MELVIN L., Peter Bent Brigham Hosp., Boston, Mass.
bioassay; FSH; gonadectomy; gonadotropins; immune sera; latex particles; LH; menopause..postmenopause; menstruation; menstruation disorders

AM-06839 MAHER, MICHAEL J., Grad. Sch., Univ. Kansas, Lawrence, Kans.
thyroxine; thyrotropin; thyroidectomy; temperature; oxygen consumption; triiodothyronine

AM-06860 ROCHE, JEAN, Univ. Naples, Naples, Italy
thyroid hormones; radiolabeled iodine; binding; proteins; bacteria; blood cells..erythrocytes; ascites tumors; membrane permeability and transport; cell components.. cell membrane

AM-06873 MACCHI, I. ALDEN, Grad. Sch., Boston Univ., Boston, Mass.
transplantation..homotransplantation; pancreas transplantation; histocompatibility; regeneration; insulin; diabetes

AM-06893 COLE, HAROLD H., Col. Agr., Univ. California, Davis, Cal.
gonadotropins; chemical structure--biological activity; uterus..endometrium; blood..serum; bioassay; fractionation; antigonadotropic agents; FSH; LH

AM-06904 SERIF, GEORGE S., Ohio State Univ. Res. Fdn., Columbus, Ohio
thyroxine; triiodothyronine; antithyroid compounds; phenols; thyroid function; halides; thyroid hormones

AM-06911 BARKER, SAMUEL B., Col. Med., Univ. Vermont, Burlington, Vt.
thyroxine; thyroxine analogs; chemical structure--biological activity; heart rate; thyroidectomy; oxygen consumption; hypothyroidism; hyperthyroidism; brain; gonads; muscle..skeletal muscle; heart..myocardium; liver; kidney; pancreas; salivary glands; membrane permeability and transport; water--electrolyte balance

AM-06912 MacDONALD, PAUL C., Univ. Texas Southwestern Med. Sch., Dallas, Tex.
dehydroepiandrosterone; androstenedione; testosterone; estradiol; estrone; ovary; menstrual cycle; gonadotropins; tritium; radiolabeled carbon

AM-06918 KAHN, RAYMOND H., Sch. Med., U. Michigan, Ann Arbor, Mich.
secretory mechanisms; pituitary gland; organ culture; prolactin; LH; somatotropin; gonadotropins; pituitary hormones

AM-06924 KILPATRICK, ROBERT, Univ. Sheffield, Sheffield, England
pituitary gland; gonadotropins; prolactin; ovary..corpus luteum; steroids; veins; ovariectomy; hysterectomy; pituitary gland transplantation

AM-06937 SOUTHREN, A. LOUIS, New York Med. Col., N.Y.C.
radioassay; testosterone; 17α-hydroxy-progesterone; virilism; prostate neoplasms; adrenal glands; gonads; ACTH; polycystic ovary; Cushing's syndrome; tritium; radiolabeled sulfur

AM-06938 KAPLAN, NORMAN M., Southwestern Med. Sch., U. Texas, Dallas, Texas
adrenal glands; aldosterone; steroids; ACTH; angiotensin II; dosage; pituitary gland..neurohypophysis; phosphorylases; cell components..mitochondria; radiolabeled carbon; acetates; tritium; radiolabeled iodine

AM-06988 ULICK, STANLEY, Veterans Admin. Hosp., Bronx, N.Y.
skin; aldosterone; 4--pregnene--11β, 18, 21--triol--3, 20--dione; mineralocorticoids; kidney; proteases..renin; bioassay; angiotensin

AM-07000 MACK, ROBERT E., Woman's Hosp., Detroit, Mich.
iodotyrosine; diiodotyrosine; thyroid gland; thyrotropin; iodide; radiolabeled iodine

AM-07056 MELONI, C. ROBERT, 3800 Reservoir Rd., N.W., Washington, D.C.
bone; metabolic diseases; parathyroid hormones; Krebs cycle; bioassay; stable isotope labeled

AM-07058 CURTIS, GEORGE W., Lemuel Shattuck Hosp., Boston, Mass
adrenal glands; androgens; pregnane series; aldosterone; androstane; ACTH; hyperadrenalism; adrenal glands neoplasms; Cushing's syndrome; adrenogenital syndrome; acetates; radiolabeled sodium

AM-07063 URQUHART, JOHN, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
adrenal cortex hormones; blood..plasma; lymph; endothelium permeability; cell components..cell membrane; inflammation; trauma; blood proteins..plasma proteins; binding; secretory mechanisms; adrenal glands; perfusion

AM-07092 ESTEP, HERSCHEL L., Sch. Med., Med. Col. Virginia, Richmond, Va.
ACTH; stress; morphine; reserpine; chlorpromazine; diphenylhydantoin; 2-methyl-1,2-bis-(3-pyridyl)-1-propanone; adrenal cortex hormones; dexamethasone; neuroendocrine systems; nervous system disorders; hypopituitarism

AM-07109 GOLDSMITH, CARL, District of Columbia Gen. Hosp., Washington, D.C.
aldosterone; blood circulation dynamics; diuresis; dosage; kidney..renal tubular transport; kidney circulation; mannitol; sodium

AM-07179 MELBY, JAMES C., Massachusetts Mem. Hosps., Boston, Mass.
metabolites; aldosterone; tetrahydroaldosterone; tritium; liver diseases

AM-07186 ARMSTRONG, DAVID T., Sch. Dent., Med., Harvard Univ., Boston, Mass.
bioassay; cell components..organelles; cell differentiation; fractionation; glycolysis; immunofluorescence; LH; ovary; reaction sites; steroids; stimulus

AM-07204 ORTMAN, ROBERT A., Col. Liberal Arts, Sci., City Col. City Univ., New York, N.Y.
pituitary gland; cell types; thyrotropin; gonadotropins; thyroidectomy

AM-07206 BURSTEIN, SHLOMO, Worcester Fdn. Expt. Biology, Shrewsbury, Mass.
sulfatases..steroid sulfatase; tissue; endocrine glands; cell components..microsomes; androgens; dehydroepiandrosterone; steroid sulfates; pituitary gland tritium; polycystic ovary neoplasms

AM-07207 FERGUSON, JAMES J., Jr., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
ACTH; adrenal glands; proteins; puromycin; ribonucleic acid

AM-07208 SHIZUME, KAZUO, Sch. Med., Univ. Tokyo, Hongo, Tokyo, Japan
electrostimulus; brain; stereotaxia; thyrotropin; thyroxine; radiolabeled iodine; thyroid function; blood flow

AM-07215 DUNN, ARNOLD, Col. Arts, Sci., Univ. Southern California, Los Angeles, Cal.
amino acid; glucose; glycogenesis; liver; pituitary hormones; radiolabeled carbon; somatotropin; tritium

AM-07217 ROSENTHAL, OTTO, Univ. Hosp., Univ. Pennsylvania, Philadelphia, Pa.
adrenal glands; 21--hydroxysteroids; hydroxylation reactions; cell components..microsomes; hydroxylases; ACTH; adrenal cortex hormones; hypertension (systemic); adrenal hypertension; cell components..mitochondria

AM-07242 VOGEL, JOHN M., U.S.P.H.S. Hospital, San Francisco, Cal.
insulin; kidney function; radiolabeled iodine

AM-07254 HOTCHKISS, JULANE, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
growth; growth hormones; hypophysectomy; immunology.. antigen-antibody reactions; primates..monkeys; proteins; radiolabeled carbon

AM-07257 DILL, RUSSELL E., Univ. Texas Med. Br., Galveston, Tex.
corticosterone; blood..plasma; adrenal glands; diphenylhydantoin; ACTH; nervous system..Central nervous system; stress; brain..hypothalamus

AM-07280 GUT, MARCEL, Worcester Fdn. Expti. Biology, Shrewsbury, Mass.
androgens; sterols; estrogens; molecular structure; radiolabeled carbon; tritium; metabolites; adrenal cortex hormones

AM-07282 TAIT, JAMES F., Worcester Fdn. Expti. Biology, Shrewsbury, Mass.
androgens; testis; adrenal glands; radiolabeled carbon; tritium; enzymes; hormones inhibitors

AM-07290 WOODS, JAMES W., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
thyrotropin; body fluids; hormones inhibitors; hypophysectomy; diabetes insipidus; brain; brain lesions; stimulus; bioassay

AM-07303 BLOOMFIELD, RICHARD A., Col. Agr., U. Missouri, Columbia, Mo.
nitrates; diet; thyroid gland; iodine; reproduction; pregnancy..placental transfer; lactation; mammary gland; radiolabeled iodine; therapy

AM-07324 VISCELLI, THOMAS A., High Tor Fdn., Palisades, N.Y.
androgens; adrenal glands; perfusion; veins..adrenal vein; adrenal glands disorders; adrenogenital syndrome; pregnane series; glucocorticoids; hormones inhibitors; radiolabeled carbon

AM-07325 BOATMAN, JOSEPH B., Midwest Med. Res. Fdn., Wichita, Kans.
binding; cell components..mitochondria; electrolytes; liver; membrane permeability; thyroxine; thyroxine analogs; water

AM-07328 GANDY, HORTENSE M., Med. Col., Cornell Univ., New York, N.Y.
testosterone; dehydroepiandrosterone; androstenedione; adrenal glands; gonads; sex differentiation abnormalities; androgens; endocrine glands disorders; 5 beta--androstane--3 alpha--ol--17--one

AM-07330 WELIKY, IRVING, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
ovary; estrogens; androgens; progesterone; radiolabeled carbon; tritium

(contd)

ENDOCRINOLOGY (CONTD)

AM-07333 LEATHEM, JAMES H., Col. Arts, Sci., Rutgers State Univ., New Brunswick, N.J.
adrenal cortex hormones; adrenalectomy; corticosterone; fluorometry; gonadotropins; ovary

AM-07375 SELLS, BRUCE H., St. Jude Hosp., Memphis, Tenn.
pituitary neoplasms; somatotropin; ribonucleic acid; cell components..organelles; deoxyribonucleic acid; hypophysectomy; liver

AM-07376 FARESE, ROBERT V., Sch. Med., State Univ. New York, Buffalo, N.Y.
ACTH; adrenal glands; proteins; ribonucleic acid; orotic acid; amino acids; antibiotics..chloramphenicol; antibiotics..actinomycin D; cell components..ribosomes; adrenal cortex hormones; steroids

AM-07385 LANMAN, JONATHAN T., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
adrenal cortex hormones; adrenal glands; hormones inhibitors; bioassay; chemical structure--biological activity; ACTH; adrenoglomerulotropin; reaction sites; aldosterone

AM-07430 FAND, SALLY B., Sch. Med., State Univ. New York, Buffalo, N.Y.
instrumentation-methodology; densitometry; pituitary gland; cell components..cytoplasm; cell components..cell nucleus; deoxyribonucleic acid; genetics..polyploidy; pituitary hormones; aging; pituitary gland disorders

AM-07435 BARRETT, RICHARD J., Northwestern Univ. Med. Sch., Chicago, Ill.
pituitary gland; growth hormones; prolactin; ACTH; peptides; proteolysis; lipolysis; amino acids; adipose tissue; chemical structure--biological activity

AM-07464 MALAMOS, BASIL, Alexandra Hosp., Athens, Greece
geographical sites..Greece; thyroid function; goiter; children; age; genetics; radiolabeled iodine; survey; dietary deficiency; iodine

AM-07466 BERGSTROM, WILLIAM H., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
parathyroid hormones; nephrectomy; blood..serum; bone; calcium; phosphorus; water-electrolyte balance; bioassay

AM-07467 SCHALLY, ANDREW V., Tulane Med. Sch., New Orleans, La.
ACTH..corticotropin-releasing factor; electrophoresis; bioassay; lysine vasopressin; α-MSH; chemical structure

AM-07517 HISAW, FREDERICK L., Jr., Oregon State Univ., Corvallis, Ore.
plants hormones; reproduction; embryo resorption; veterinary medicine; estrogens

AM-07564 ROSEMBERG, EUGENIA, Med. Res. Inst. Worcester, Inc., Worcester, Mass.
chemotherapy; FSH; gonadotropins; LH; ovary; pituitary gland

AM-07610 HAGERMAN, DWAIN D., Harvard Med. Sch., Fearing Research Lab., Brookline, Mass.
steroid hormones; enzymes; pregnancy..placenta; ovary; chemical structure--biological activity

AM-07616 BRYAN, GEORGE T., Univ. Texas Med. Cr., Galveston, Texas
adrenogenital syndrome; aldosterone; children; radiolabeled carbon; tritium

AM-07622 PLAGER, JOHN E., Medical Fdn. Buffalo, Inc., Buffalo, N.Y.
blood..plasma; column chromatography; conjugates; endocrine glands disorders; instrumentation-methodology; ion exchange chromatography; metabolites; radiolabeled carbon; solutions..aqueous solutions; steroid hormones; tritium; urine

AM-07625 KIMBERG, DANIEL V., Col. Phys., Surg., Columbia Univ., N.Y.C.
calcium; steroid hormones; vitamin D; cell components..mitochondria; intestinal absorption

AM-07642 KRISS, JOSEPH P., Stanford Univ. Med. Cr., Palo Alto, Cal.
thyroid activator; hyperthyroidism; bioassay; immunological tests; radiolabeled iodine; thyroid gland; immunology..antibodies; gamma globulin; myxedema

AM-07660 HEANEY, ROBERT P., Sch. Med., Creighton Univ., Omaha, Nebr.
parathyroid hormone; bone; intestines; mucous membrane; osteoporosis; oligomycin; bishydroxycoumarin; hydrocortisone; corticosterone; stress; vitamin D

AM-07666 LORINCZ, ALLAN L., Sch. Med., Univ. Chicago, Chicago, Ill.
bioassay; carbohydrases..β-glucuronidase; chemical structure; immunology..antigens; molecular weight; nitrogen; pituitary hormones; preputial glands; progesterone; sebaceous glands

AM-07715 TAMAOKI, BUN-ICHI, National Inst. Radiological Sci., Chiba-shi, Japan
pituitary hormones; gonadotropins; pituitary gland; amino acids; hexoses; radiation effects; sex difference; age; irritants; gonads; gonadotropins--releasing factor; gonadectomy; glycoproteins

AM-07722 SIEGEL, EDWARD T., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
steroids; metabolites; testosterone; estradiol; progesterone; hydrocortisone; endocrine glands disorders; radiolabeled carbon; tritium

AM-07763 LEACH, ROBERT B., Children's Hosp. Michigan, Detroit, Mich.
sickle cell anemia; growth; children..adolescence; hypogonadism; testis; gonadotropins; estrogens; 17--ketosteroids

AM-07795 STOERK, HERBERT C., Sch. Med., Columbia Univ., N.Y.C.
adrenal cortex hormones; bioassay; calcium; chemical structure--biological activity; hyperparathyroidism; kidney function; osteoporosis; parathyroid hormones

AM-07801 NOVAL, JOSEPH J., New Jersey Neuropsychiatric Inst., Princeton, N.J.
ACTH; adrenal glands; adrenalectomy; amino acid; brain.. hippocampus; brain..hypothalamus; nervous system.. central nervous system; stress

AM-07803 GOODNER, CHARLES J., King County Hosp. Systems, Seattle, Wash.
bioassay; cell types; diabetes; glucose; insulin; pituitary gland; pituitary gland disorders; pituitary hormones; proteins; reaction sites

AM-07814 GRAIG, FRANK A., Montefiore Hosp., N.Y.C.
bioassay; blood..serum; creatine; muscular diseases; phosphorylation; phosphotransferases..ATP; creatine phosphotransferase; thyroid gland disorders; thyroid hormones

AM-07816 GANIS, FRANK M., Sch. Med., Univ. Maryland, Baltimore, Md.
adrenal cortex hormones; androgens; estrogens; fractionation; kidney; kidney disorders; progesterone; steroid hormones

AM-07817 MEADOR, CLIFTON K., Univ. Alabama Med. Cr., Birmingham, Ala.
ACTH; ACTH inhibitors; adrenal glands disorders; blood..plasma; dexamethasone; diurnal variation; hydrocortisone; 2-methyl-1,2-bis-(3-pyridyl)-1-propanone; pituitary gland disorders

AM-07867 BORLE, ANDRE B., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
calcium; chemical structure--biological activity; cytology; growth; HeLa cells; intestinal absorption; kidney cells; membrane permeability; parathyroid hormones; sodium; water-electrolyte balance

AM-07882 DRONKERT, ADRIAN, Veterans Admin. Hosp., Palo Alto, Cal.
acrylamide gel electrophoresis; antigonadotropic agents; fractionation; gonadotropins; kaolin; urine

AM-07889 NAGATAKI, SHIGENOBU, Faculty Med., Univ. Tokyo, Hongo, Tokyo, Japan
thyroid function; thyroxine; iodine; diet; hormones inhibitors; radiolabeled iodine; survey; geographical sites..Japan

AM-07893 MUNSON, PAUL L., Sch. Dent. Med., Harvard Univ., Boston, Mass.
adrenal glands; androgens; bioassay; chemical structure--biological activity; connective tissue; growth; instrumentation-methodology; steroids; synthesis; testosterone

AM-07896 BERN, HOWARD A., Col. Letters, Sci., Univ. California, Berkeley, Cal.
adrenal cortex hormones; adrenal glands..interrenal gland; water-electrolyte balance

AM-07903 HOPWOOD, M.L., Sch. Sci., Arts, Colorado State Univ., Fort Collins, Colo.
chemical structure--biological activity; crops; diethylstilbestrol; fertilizers; growth; public health; radiolabeled carbon; reproduction; soil

AM-07917 BRAVERMAN, LEWIS E., St. Elizabeth's Hosp., Brighton, Mass.
antithyroid compounds; binding; blood proteins..serum proteins; thyroid function; thyroxine; thyroxine-binding proteins

AM-07955 MATSUURA, TERUO, Sch. Eng., Kyoto Univ., Yoshida, Kyoto, Japan
thyroxine; diiodotyrosine

AM-07982 HOLLANDER, VINCENT P., Hosp. Joint Diseases, New York, N.Y.
neoplastic growth; enzymes; pregnancy..placenta; uterus; gonadectomy; fatty acids; glucose; cyclization; testosterone; steroids; veins..spermatic vein; isotope dilution (concentration) techniques; estradiol; prostate neoplasms

AM-08038 ELLINGTON, EARL F., Sch. Agr., Oregon State Univ., Corvallis, Ore.
age; estrus; gonadectomy; pituitary gland; pituitary hormones; secretory mechanisms; sex difference

AM-08044 WALLACE, ELEANOR Z., College Med., State Univ. New York, Brooklyn, N.Y.
adrenal cortex hormones; steroid sulfates; chemical bonds.. bond cleavage

AM-08045 DAVID, RAPHAEL, New York Univ. Med. Cr., N.Y.C.
androgens; estrogens; gonads; neoplasms; ovary neoplasms; sex differentiation abnormalities; steroids

AM-08071 GAWIENOWSKI, ANTHONY M., Univ. Massachusetts, Amherst, Mass.
2-methoxyestrogens; 2-methoxyestrone; methylation; ovary; polycystic ovary; progesterone; radiolabeled carbon

AM-08081 WYNN, JAMES, Duke Hosp., Durham, N.C.
thyroid hormones; brain..hypothalamus; pituitary gland; stress; thyroxine; goiter..exophthalmic goiter

AM-08172 ROTH, WILLARD D., Sch. Med., Harvard Univ., Boston, Mass.
brain..pineal body; neuroendocrine systems; secretory mechanisms; growth; diumal variation; thyroid gland; adrenal glands; gonads; pituitary gland; neurosurgery; melatonin; radiolabeled phosphorus

AM-08173 WOHLTMANN, HULDA J., Sch. Med., Washington Univ., St. Louis, Mo.
bioassay; insulin; membrane permeability; 3-0-methyl glucose; muscle..skeletal muscle; tritium

AM-08175 ACKERMAN, CLEMENS J., Virginia Polytechnic Inst., Blacksburg, Va.
thyroxine; proteins; cell-free systems; ribonucleic acid; fractionation; enzymes; hypothyroidism

AM-08181 PITTMAN, CONSTANCE S., Univ. Alabama Med. Cr., Birmingham, Ala.
chemical structure--biological activity; radiolabeled carbon; radiolabeled iodine; synthesis; thyroxine

AM-08184 LLOYD, CHARLES W., Worcester Fdn. Expti. Biology, Shrewsbury, Mass.
adenoma; androgens; brain..hypothalamus; cell types; estrogens; fertility; gonadotropins; LH; neurosecretion; pituitary gland; pituitary neoplasms; polycystic ovary; testosterone

AM-08188 GRADY, HAROLD J., Univ. Kansas Med. Cr., Kansas City, Kan.
adrenal cortex hormones; adrenal glands; chemical structure--biological activity; cholesterol; DDD; enzymes inhibitors; functional groups; isomers; liver function

AM-08216 ARCHIBALD, REGINALD M., The Rockefeller Inst., N.Y.C.
thyroxine; tyrosine; diiodotyrosine; 4-hydroxy-3,5-diiodophenylpyruvic acid; thyrotropin; iodination; peroxidation; enzymes; protein-bound amino acids; HeLa cells; mutagens; reaction sites; thyroid gland; puromycin; transfer ribonucleic acid; radiolabeled iodine; radiolabeled carbon

AM-08220 SANDBERG, EUGENE C., Sch. Med., Stanford Univ., Palo Alto, Cal.
conjugates; fetus; ovary; ovary neoplasms; polycystic ovary; steroids; sulfatases; transsulfurases..sulfotransferases; sulfates

AM-08244 KELLY, WILLIAM G., Col. Phys., Surg., Columbia Univ., N.Y.C.
androgens; chemical structure; estrogens; 19-hydroxysteroids; metabolites; radiolabeled carbon; tritium

AM-08247 MARTIN, HELEN E., Sch. Med., Univ. Southern California, Los Angeles, Cal.
Addison's disease; adrenalectomy; aldosterone; blood..serum; bone; calcium; electrolytes; homeostasis..hyperparathyroidism; magnesium; muscle; parathyroid hormones

AM-08261 MUNSON, PAUL L., Sch. Dent. Med., Harvard Univ., Boston, Mass.
hypocalcemia; thyrocalcitonin; thyroid hormones; thyroid gland; parathyroid hormones; parathyroidectomy; hypercalcemia; hypothyroidism; hyperthyroidism; reaction sites

AM-08269 LEVEY, HAROLD A., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
iodine; membrane permeability; potassium; potentials..membrane potentials; reaction sites; thyroid function; thyroid gland

AM-08275 PATEK, PAUL R., Sch. Med., Univ. Southern California, Los Angeles, Cal.
arteries; castration; cell migration; cholesterol; hematopoiesis; hormones; hypophysectomy; lipids; phagocytosis; reticuloendothelial system

AM-08290 GUILLEMIN, ROGER, Col. Med., Baylor Univ., Houston, Tex.
research programs; brain..hypothalamus; pituitary gland..median eminence; neurosecretion; pituitary hormones, bioassay; chemical structure; neuroendocrine systems

AM-08307 HOUSSAY, BERNARDO A., Inst. Biol. Med., Buenos Aires, Argentina
diabetes; hormones; sulfonamides; adrenal medulla hormones; adrenal medulla; cytology; molting; ketone bodies; vasopressin; oxytocin; kidney function; renal hypertension; reflex; conditioning; joints diseases; bacteria..Mycobacterium; thyroid hormones; gonads; growth hormones; hypophysectomy

AM-08320 HAFT, DAVID E., New York Med. Col., N.Y.C.
liver; hydrocortisone; radiolabeled carbon; pyruvate; insulin; glucose; amino acid

AM-08365 CRIGLER, JOHN F., Jr., Children's Hosp. Med. Cr., Boston, Mass.
pituitary hormones; children; neurosurgery; brain..hypothalamus; growth; thyroid function; adrenal glands; gonads; water--electrolyte balance; thyrotropin; growth hormones; gonadotropins

AM-08375 TROEN, PHILIP, Montefiore Hosp., Pittsburgh, Penna.
chorionic gonadotropins; estrogens; steroids; pregnancy..placenta

AM-08378 FISHER, DELBERT A., Univ. Arkansas Med. Cr., Little Rock, Ark.
thyroxine; radiolabeled iodine; scintillation counters..whole body scintillation counter; age; children; thyroid function; antithroid compounds; drugs interaction; instrumentation-methodology

AM-08381 ANTONIADES, HARRY N., Protein Fdn. Lab., Jamaica Plain, Mass.
biological compounds preparation; thyrotropin; LH; FSH; ACTH; blood..plasma; insulin; proteins; binding; steroids

AM-08384 SOLOMON, DAVID, Sinai Hosp., Baltimore, Md.
mongolism; endocrine glands disorders; dehydroepiandrosterone; androsterone; 5 beta--androstane--3 alpha--ol--17--one; 17--ketosteroids; adrenal glands; ovary; Klinefelter's syndrome; genetics..genotypes; genetics..chromosomes; genetics..trisomy; sex; infant human

AM-08386 FEVOLD, H. RICHARD, Col. Arts, Sci., Montana State Univ., Missoula, Mont.
ACTH; adrenal cortex hormones; secretory mechanism; species; reaction sites; chemical structure; corticosterone; hydrocortisone

AM-08387 TAIT, JAMES F., Worcester Fdn. Expti. Biology, Shrewsbury, Mass.
androgens; androstenedione; testosterone; blood..plasma; body fluids; tritium; radiolabeled sulfur

AM-08403 FUTTERWEIT, WALTER, Mount Sinai Hosp., N.Y.C.
steroid glucuronides; testosterone; glucuronic acid; diagnostic tests; endocrine glands disorders; adrenal glands; polycystic ovary; hirutism; hypogonadism; chorionic gonadotropins; ACTH; dexamethasone; tritium

AM-08410 CAVALIERI, RALPH R., Univ. California Med. Cr., San Francisco, Cal.
tyrosine; thyroid gland; leucine; thyroglobulin; iodination; blood..plasma

AM-08422 RUBIN, BETTY L., Albert Einstein Col. Med., Bronx, N.Y.
growth; estrogens; uterus; proteins; membrane permeability and transport; age; species; genetic strains; gonadectomy; nucleic acids; lipids; nucleotides

AM-08423 DRUMMEY, WILLIAM D., Sch. Med., New York Univ., N.Y.C.
glucuronic acid; steroid hormones; conjugates; chemical structure..biological activity; cell components..microsomes; radiolabeled carbon; tritium

AM-08468 SAWYER, CHARLES H., Sch. Med., Univ. California, Los Angeles, Cal.
nervous system..central nervous system; pituitary gland; adrenal glands; electrostimulus; brain lesions; neuroendocrine systems

AM-08469 VALTIN, HEINZ, Dartmouth Med. Sch., Hanover, N.H.
congenital abnormalities; diabetes insipidus; brain..hypothalamus; kidney..glomerular filtration; kidney..renal tubular transport; vasopressin; osmoreceptors; polypeptides; arginine; radiolabeled sulfur; water--electrolyte balance

AM-08486 HADD, HARRY E., Sch. Med., Indiana Univ., Indianapolis, Ind.
steroids; glucuronic acid; testosterone; conjugates; synthesis; chemical structure--biological activity; androgens; proteins; binding; carbohydrases..β-glucuronidase; prolactin; chemical bonds

AM-08488 HOLLOWELL, JOSEPH G., Jr., Med. Col. Georgia, Augusta, Ga.
natriuresis; hyperadrenalism; membrane permeability and transport; urinary bladder; enzymes inhibitors..phosphatase inhibitors

AM-08501 RONGONE, EDWARD L., Sch. Med., Creighton Univ., Omaha, Nebr.
progesterone; binding; blood proteins..plasma proteins; fractionation

AM-08513 REINEKE, E. PAUL, Col. Sci., Arts, Vet. Med., Michigan State Univ., East Lansing, Mich.
thyroid function; lactation; iodine; secretory mechanisms; thyrotropin; diet; environment; aging; genetics; radiolabeled iodine

AM-08536 MEADE, ROBERT C., Veterans Admin. Cr., Wood, Wis.
blood..serum; pancreas; insulin; proteins; conjugates; chemical structure--biological activity; diabetes

AM-08567 KEUTMANN, E. HENRY, Strong Mem. Hosp., Rochester, N.Y.
ion exchange chromatography; ion exchange resins; steroids; conjugates; steroid hormones; cancer; gas chromatography; infrared spectrometry

AM-08572 REISE, ERIC, Michael Reese Hosp. and Med. Cr., Chicago, Ill.
parathyroid hormone; secretory mechanisms; homeostasis; ions; calcium; hyperparathyroidism; hypercalcemia; hypocalcemia; menopause..postmenopause; osteoporosis; renal failure; neoplasms; radiolabeled iodine

AM-08593 CUTLER, R.E., King County Hosp., Seattle Wash.
vasopressin; body fluids; homeostasis; water loading; dehydration (body fluids); hypopituitarism; adrenal glands disorders; diabetes insipidus; hyponatremia; hypothyroidism; hyperthyroidism; pregnancy; diethylstilbestrol; prednisone

AM-08621 MIKHAIL, GIRGIS, Sch. Med., Washington Univ., St. Louis, Mo.
steroid hormones; ovary; veins; blood..plasma; conjugates; menstrual cycle; radiolabeled carbon; tritium

AM-08630 UTIGER, ROBERT D., Sch. Med., Washington Univ., St. Louis, Mo.
thyrotropin; thyroid gland; pituitary gland; radiolabeled iodine; immunological tests; radioassay

AM-08701 DENTON, DEREK A., Sch. Med., Univ. Melbourne, Victoria, Australia
research programs; neuroendocrine systems; water--electrolyte balance; aldosterone; proteases..renin; ACTH; adrenal glands transplantation; brain lesions; pregnancy

ENDOCRINOLOGY (CONTD)

AM-08710 WILHOFT, DANIEL C., Newark Col. Arts, Sci., Rutgers State Univ., Newark, N.J.
thyroid function; thermoregulation; oxygen consumption; tissue respiration; acclimatization; seasonal variation; radiolabeled iodine; thyroxine; triiodothyronine; reptiles

AM-08726 EGDAHL, RICHARD H., Massachusetts Mem. Hosp., Boston, Mass.
nervous system..central nervous system; ACTH..corticotropin-releasing factor; decerebration; brain mapping; neuroendocrine systems; kidney function; hypotension; ether; pentobarbital; bioassay

AM-08733 LARDY, HENRY A., Grad. Sch., Univ. Wisconsin, Madison, Wis.
enzymes; liver; thyroid hormones; estrogens; adrenal cortex hormones

AM-08743 SCHALLY, ANDREW V., Tulane Med. Sch., New Orleans, La.
somatotropin; brain..hypothalamus; chemical structure--biological activity; peptides; functional groups; amino acid

AM-08746 RAPP, JOHN P., Zoological Soc. Philadelphia, Philadelphia, Pa.
kidney..juxtaglomerular apparatus; sodium; homeostasis; genetic strains; angiotensin; aldosterone; proteases..renin; nephrectomy; hypertension (systemic)

AM-08756 SPARAGANA, MARIO, Veterans Administration Hosp., Boston, Mass.
steroid hormones; gas chromatography; metabolites; ACTH; gonadotropins; thyrotropins; 1--methyl--2--mercaptoimidazole; vasopressin; endocrine glands disorders

AM-08778 HILTON, FREDERICK K., Sch. Med., Univ. Louisville, Louisville, Ky.
submandibular gland; endocrine glands; genetic strains; gonadectomy; estrogens; androgens; thyroxine; carbohydrases..amylase; age; parabiosis

AM-08828 WILLIAMS, GERALD A., VA West Side Hosp., Chicago, Ill.
parathyroid hormone; metabolites; reaction sites; reaction rates (chemistry); serology; kidney; intestines; liver; radiolabeled iodine

AM-08843 RAMEY, ESTELIE R., Sch. Med., Georgetown Univ., Washington, D.C.
phosphatases..adenosine triphosphatase; adrenal glands; steroids; water--electrolyte balance; sodium; potassium; electrolytes; diet; deoxycorticosterone; cortisone; catecholamines; stress

AM-08932 ENGBRING, NORMAN H., Sch. Med., Marquette Univ., Milwaukee, Wis.
goiter..exophthalmic goiter; thyroxine; thyrotropin; protein-bound iodine; myxedema; peripheral vascular system; radiolabeled iodine

AM-08942 BAUMAN, JOHN W., Bureau Res. Neurology and Psychiatry, Princeton, N.J.
antidiuresis; oxytocin; somatotropin; thyroid hormones; ACTH; osmotic pressure; hypophysectomy; kidney..glomerular filtration; kidney circulation; nutrition; radiolabeled carbon; electrolytes

AM-08943 SCHALCH, DON S., Sch. Med. Univ. Rochester, Rochester, N.Y.
secretory mechanisms; somatotropin; insulin; glucose; diabetes; stress; age; fatty acids; diabetic retinopathy; kidney disorders; neuromuscular disorders

AM-08944 SCHULZ, ARTHUR R., Sch. Med., Indiana Univ., Indianapolis, Ind.
thyroglobulin; enzymes; reaction sites; iodotyrosine; hydrogen peroxide; pyridoxal; radiolabeled carbon

AM-08970 KINSELLA, RALPH A., Jr., Sch. Med., St. Louis Univ., St. Louis, Mo.
adrenal cortex hormones; perfusion; fetus; adrenal glands; blood flow; cell differentiation; enzymes; conjugates; pregnenolone; radiolabeled carbon; tritium

AM-09006 MONDER, CARL, Research Inst. Skeletomuscular Disease Hosp. Joint Dis., New York, N.Y.
adrenal cortex hormones; steroid hormones analogs; synthesis; oxidation; steroids; anti--inflammatory agents; chemical structure--biological activity; oxidoreductases..steroid dehydrogenase

AM-09045 HALKERSTON, IAN D.K., Worcester Fdn. Exptl. Biol., Shrewsbury, Mass.
ACTH; adrenal glands; adrenal cortex hormones; proteins; nucleic acids; lipids; cell components; adenosine 3',5'--monophosphate; growth hormones; insulin; antibiotics..puromycin

AM-09046 YASUMURA, SEIICHI, State University New York, Downstate Med. Cr., Brooklyn, New York
thyrotropin releasing factors; brain lesions; brain mapping; brain..hypothalamus; nerves..neurons; hypophysectomy; pituitary gland transplantation; propylthiouracil; infant animals; adrenal glands; stress; electrostimulus

AM-09054 GANN, DONALD S., Univ. Hosp. Cleveland, Cleveland, Ohio
17-hydroxycorticosteroids; hydrocortisone; adrenal glands; vein..adrenal vein; perfusion; blood circulation dynamics; blood volume; brain lesions; nerves..denervation; pressoreceptors

AM-09060 BRENNER, ROBERT M., Med. Res. Fdn. Oregon, Portland, Ore.
adrenal glands; growth; gonadotropins; age; sex difference; thymidine; tritium; ACTH; dimorphism (biology)

AM-09105 HIRSCHMANN, HANS, University Hospitals, Cleveland, Ohio
steroids; adrenal cortex hormones; veins..adrenal vein; sulfates; chemical structure

AM-09106 WESTERFIELD, WILFRED W., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
thyroid hormones; antithyrotoxic factors; bioassay; fractionation; liver; radiolabeled; thyroxine

AM-09125 WIEST, WALTER G., Sch. Med., Washington Univ., St. Louis, Mo.
steroids; longitudinal study; reproductive system; dehydrogenases..20--a--hydroxysteroid dehydrogenase; estrus; gonadotropins; estrogens; 17a--hydroxyprogesterone; androstenedione; uterus; ovary

AM-09151 TROOP, ROBERT C., Univ. Tennessee, Medical Units, Memphis, Tenn.
heparin; adrenal cortex hormones; enzyme inhibitors; oxidoreductases; liver; metabolites; aldosterone; diabetes; obesity; bronchogenic carcinoma; Cushing's syndrome

AM-09180 DODSON, RAYMOND M., Univ. Minnesota, Minneapolis, Minn.
conferences; publications; gas chromatography; instrumentation--methodology; steroids

AM-09185 SOLOMON, DAVID H., Sch. Med., Univ. California, Los Angeles, Cal.
catecholamines; thyroid function; thyroid hormones; radiolabeled iodine; radioisotopes..iodine 125; radioisotopes..iodine 131; radioisotopes..iodine 132; stress; hyperthyroidism; protein--bound iodine; pheochromocytoma; gastrointestinal system; gastrointestinal surgery

AM-09197 RONGONE, EDWARD L., Sch. Med., Creighton Univ., Omaha, Nebr.
steroids; skin; cholesterol; primates..monkeys

AM-09200 TUCKER, H. ALLEN, Sch. Agr., Michigan State Univ., East Lansing, Mich.
breast feeding; stimulus; mammary glands; cell division; pituitary hormones; ribonucleic acid; deoxyribonucleic acid; immunology..antibodies; hypophysectomy

AM-09203 CHIASSON, ROBERT B., Univ. Arizona, Tucson, Ariz.
brain..hypothalamus; thyroid function; thyrotropin; propylthiouracil; brain lesions; hypophysectomy; pituitary gland transplantation; parabiosis; radiolabeled iodine

AM-09210 FASCIOLO, JUAN C., Fac. Med., Univ. Nacional de Cuyo, Mendoza, Argentina
proteases..renin; kidney; hypotension; kidney circulation; kidney..glomerular filtration; secretory mechanisms; homeostasis; bradykinin; acetylcholine; kallidin; histamine; diet

AM-09212 PERLGUT, L.E., Col. Arts, Sci., Rutgers State Univ., New Brunswick, N.J.
iodoamino acids; histidine; thyroxine; cell components..mitochondria; oxidative phosphorylation; iodination; reaction sites

AM-09216 BERLINER, DAVID L., Col. Med., Univ. Utah, Salt Lake City, Utah
steroid hormones; cell culture; fibroblasts; reticuloendothelial system; neoplastic cells; liver; endocrine glands; inflammation; thyroid hormones; growth; radiation effects; steroids

AM-09219 GLICK, SEYMOUR M., Maimonides Hosp., Brooklyn, N.Y.
somatotropin; hypoglycemia; exercise; fasting; diabetes; obesity; insulin; dosage; diet; nervous system; reserpine; phenothiazines; hypopituitarism; acromegaly; diagnostic tests; endocrine glands disorders; primates..monkeys; immunoassay

AM-09227 TRENKLE, ALLEN H., Sch. Agr., Iowa State Univ., Ames, Iowa
somatotropin; pituitary gland; nervous system..central nervous system; brain..hypothalamus; fasting; diet; antimetabolites; blood sugar; species; immunoassay

AM-09261 MEEK, JOSEPH C., Jr., Univ. Kansas Med. Cr., Kansas City, Kans.
thyroid activator; gamma globulin 7S; thyrotropin; goiter, exophthalmic goiter; hyperthyroidism; exophthalmos; immunology; diagnostic tests; synthesis

AM-09295 CORTES, JULIO M., Worcester Fdn. Experimental Biol., Shrewbury, Mass.
steroids; corticosterone; adrenal glands; instrumentation--methodology; electrodialysis

AM-09391 HADDAD, HESKEL M., Mt. Sinai Hosp., New York, N.Y.
radiolabeled sulfur; eye; sulfation; exophthalmos; exophthalmogenic hormones; thyrotropin

AM-09441 HOLMAN, GERALD H., Eugene Talmadge Mem. Hosp., Augusta, Ga.
hydrocortisone; blood cells..erythrocytes; binding; blood proteins..plasma proteins; urine; steroids; ACTH; paper chromatography; infant human; children; endocrine glands disorders

AM-09487 YIP, CECIL C., Univ. Toronto, Toronto, Ontario, Canada
thyroxine; iodination; diiodotyrosine; 4--hydroxy--3--5--diiodophenylpyrivic acid; enzymes; peroxidases; thyrotropin

AM-09624 **GAMBAL, DAVID, Sch. Med., Creighton Univ., Omaha, Nebr.**
gonadotropins; FSH; LH; testis; reaction sites; lipids; phospholipids; fatty acids; steroids; immunology.. antibodies; radiolabeled phosphorus

AM-09650 **RASMUSSEN, HOWARD, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
parathyroid hormones; radiolabeled calcium; mucous membrane; cell components; chemical structure; pituitary hormones..neurohypophyseal hormones; urinary bladder; tritium; cell components..mitochondria; ion exchange and transport

AM-09707 **SMITH, J. DARREL, Children's Memorial Hosp., Oklahoma City, Okla.**
steroids; conjugates; sulfates; glucuronic acid; column chromatography; hydrolysis; enzymes; children; endocrine glands; kidney disorders; liver diseases; electrostimulus; brain..thalamus; hyperkinesia; ACTH; methopyrapone; pyrogens

AM-09908 **KUSHINSKY, STANLEY, Harbor Gen. Hosp., Torrance, Cal.**
estrogens; chemical structure; radiolabeled carbon; hydrolysis; estradiol; conjugates; carbohydrases..β--glucuronidase

AM-09957 **NATELSON, SAMUEL, Michael Reese Hosp., Med. Cr., Chicago, Ill.**
calcium; citrate; pituitary gland; species

AM-10002 **KNIGGE, KARL M., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.**
thyroid function; thyrotropin releasing factors; bioassay; radiolabeled iodine; pituitary gland transplantation; thyroid gland; pituitary gland..median eminence; thyroidectomy; hypophysectomy; neuroendocrine systems

CA-00343 **GARDNER, WILLIAM U., Sch. Med., Yale Univ., New Haven, Conn.**
carcinogenesis; pituitary gland transplantation; pituitary hormones; testis neoplasms; ovary neoplasms; lymphatic tissue; uterus neoplasms..cervix neoplasms; vagina neoplasms

CA-00757 **EHRENSTEIN, MAXMILIAN R., Univ. Pennsylvania, Philadelphia, Pa.**
synthesis; steroids; steroid hormones analogs; 19-hydroxysteroids; 19-oxysteroids; ouabagenin; 19-norsteroids

CA-00879 **CHAIKOFF, I.L., Col. Letters, Sci., Univ. California, Berkeley, Cal.**
cholesterol; adrenal glands; adrenal glands neoplasms; acetates; radiolabeled carbon; AAF; adrenal cortex hormones; progesterone; estrogens; tritium; fungi..yeasts; hydrogenases; liver; bile acids and salts; sitosterol; metabolites; screening; carcinogens

CA-01393 **ENGEL, LEWIS L., Massachusetts Gen. Hosp., Boston, Mass.**
steroid hormones; cancer; growth; enzymes; neoplastic growth

CA-01488 **ROBERTS, CLARA S., Grad. Sch., Univ. California, Los Angeles, Cal.**
steroid hormones; histamine; endocrine glands; neoplasms; uterus; estrogens

CA-02071 **TWOMBLY, GRAY H., New York University Med. Cr., N.Y.C.**
adipose tissue; cancer; estrogens; estrogens sulfates; fetus; obesity; pregnancy; radiolabeled carbon; radiolabeled sulfur; tritium

CA-02121 **HOFMANN, FREDERICK G., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
adrenal cortex hormones; enzymes; cell components.. mitochondria; cell components..microsomes; adrenal glands neoplasms; androgens; testis; adrenal glands

CA-02193 **DORFMAN, RALPH I., Grad. Sch., Worcester Fdn., Shrewsbury, Mass.**
ACTH inhibitors; androgens inhibitors; antigonadotropic agents; estrogens inhibitors; steroids; therapy

CA-02290 **PIERCE, JOHN G., Sch. Med., Univ. California, Los Angeles, Cal.**
amino acid sequence; carbohydrates; chemical structure--biological activity; thyrotropin

CA-02317 **DOUGHERTY, THOMAS F., Sch. Med., Univ. Utah, Salt Lake City, Utah**
carcinogens; leukemia..lymphocytic leukemia; carcinogenesis; hydrocortisone; blood cells..lymphocytes; hypoadrenalism; adrenal cortex hormones

CA-02487 **FARNSWORTH, WELLS E., State Univ. New York, Buffalo, N.Y.**
steroids; isotope dilution (concentration) techniques; testosterone; glycolysis; glyceraldehyde phosphate; 2--deoxy--D--glucose; phosphotransferases..ATP : D--hexose 6--phosphotransferase; fatty acids; proteins; prostate

CA-02791 **ALGARD, FRANKLIN T., Sch. Med., Stanford Univ., Stanford, Cal.**
androgens; carcinogenesis; cell age; cell culture; cell division..mitosis; epithelioma; estrogens; flank organ; kidney neoplasms; leiomyoma; neoplasms; organ culture; vas deferens neoplasms

CA-02880 **BROWNING, HENRY C., Sch. Dent., Univ. Texas, Houston, Tex.**
ovary..corpus luteum; prolactin; bioassay; pituitary gland; transplantation..homotransplantation; transplantation..autotransplantation; breast neoplasms; pituitary gland transplantation; gold thioglucose; cyclic functions; reproduction

CA-02897 **JENSEN, ELWOOD V., Sch. Med., Univ. Chicago, Chicago, Ill.**
steroid hormones; estriol; 17--methyl estradiol; estradiol; estrogens; vagina; mammary gland; pituitary gland; uterus; growth factors; hexestrol; brain..hypothalamus

CA-03101 **TEAGUE, ROBERT S., Sch. Med., Dent., Univ. Alabama, Birmingham, Ala.**
bioassay; blood..serum; cell components..cytoplasm; hypophysectomy; MSH; pituitary gland..pars intermedia; stains

CA-03135 **WOTIZ, HERBERT H., Sch. Med., Boston Univ., Boston, Mass.**
androgens; binding; estrogens; gas chromatography; menopause..postmenopause; ovary; ovary neoplasms; proteins; radiolabeled carbon; testis; testis neoplasms

CA-03163 **ECKLES, NYLENE E., Univ. Texas, Houston, Tex.**
breast neoplasms; metastasis; ovary; pituitary stalk section; hypophysectomy; adrenalectomy; adrenal cortex hormones; lactation; cancer chemotherapy; pituitary hormones; hyponatremia; water-electrolyte balance; aldosterone; antineoplastic agents; thio-TEPA

CA-03219 **RICHARDSON, GEORGE S., Massachusetts Gen. Hosp., Boston, Mass.**
estrogens; gonadotropins; ovary; testosterone; radiolabeled carbon; metabolites

CA-03559 **SLAUNWHITE, W. ROY, Jr., Health Res., Inc., Buffalo, N.Y.**
blood..plasma; breast neoplasms; cancer; conjugates; diurnal variation; estriol; estrogens; menopause..postmenopause; metabolites; pregnancy; radiolabeled bromine; transferases..glucuronyl transferase; uridinediphosphoglucosiduronic acid

CA-03566 **KOCHAKIAN, CHARLES D., Univ. Alabama Med. Cr., Birmingham, Ala.**
phylogeny; androgens; oxidoreductases..steroid dehydrogenases; proteins; nucleic acids

CA-03601 **CARTER, ANNE C., Col. Med., State Univ. New York, Brooklyn, N.Y.**
basal metabolism; breast neoplasms; cancer chemotherapy; cooperative study; lipids..serum lipids; lipoproteins..serum lipoproteins; radiolabeled iodine; steroid hormones; thyroid gland; vaginal smears

CA-03603 **SEGALOFF, ALBERT, Alton Ochsner Med. Fdn., New Orleans, La.**
androgens; androgens analogs; breast neoplasms; cancer chemotherapy; chemical structure--biological activity; steroid hormones analogs; synthesis

CA-03604 **ESCHER, GEORGE C., Sloan-Kettering Inst., N.Y.C.**
bioassay; breast neoplasms; cancer chemotherapy; carcinoma; cooperative study; gonadotropins; steroid hormones

CA-04004 **SAVARD, KENNETH, Sch. Med., Univ. Miami, Miami, Fla.**
gonads; androgens; estrogens; progesterone; ovary.. corpus luteum; sex hormones; cholesterol; mevalonic acid; acetate; gonadotropins; NADP(H2); enzymes; pregnancy; testosterone; connective tissue; stroma; LH; chorionic gonadotropins; adenosine 3'--5' monophosphate

CA-04517 **LIEBELT, ROBERT A., Col. Med., Baylor Univ., Houston, Tex.**
adrenalectomy; breast neoplasms; carcinogenesis; hormones; lung; mammary gland; mammary tumor agent; metastasis; methylcholanthrene; ovariectomy; pituitary gland; prolactin; surgery; transplantation..homotransplantation

CA-04519 **HORWITZ, JEROME P., Detroit Inst. Cancer Res., Detroit, Mich.**
estrogens; oxidation; conjugates; estrone; proteins; liver; adrenal glands; ovary; neoplasms

CA-04569 **SHIMIZU, C. SUSAN NAGERADA, Childrens Hosp., Los Angeles, Cal.**
adrenal cortex hormones; proteins; amino acids; cell--free systems; soluble ribonucleic acid; amino acyl soluble ribonucleic acid; liver; lymphatic tissue; adrenalectomy; cell components..ribosomes; phenylalanine; polypeptides; messenger ribonucleic acid

CA-04639 **GUAL, CARLOS, Inst. Natl. Nutricion, Mexico, D.F.**
adrenal glands; adrenal glands neoplasms; cyclization; dehydroepiandrosterone; pregnancy..placenta; radiolabeled carbon; sex hormones; testis neoplasms; tritium

CA-04663 **CASPI, ELIAHU, Worcester Fdn., Shrewsbury, Mass.**
antineoplastic agents; molecular rearrangement; dienol--benzene; chemical structure--biological activity; synthesis; steroids

CA-05105 **MOON, RICHARD C., Sch. Biol. Sci., Univ. Tennessee, Memphis, Tenn.**
deoxyribonucleic acid; mammary gland; somatotropin; prolactin; thyroxine; adrenal cortex hormones; insulin; sex hormones; ovariectomy; hypophysectomy; carcinogenesis; breast neoplasms; methylcholanthrene; pituitary hormones; dibenzanthracenes

CA-05181 **LEATHEM, JAMES H., Col. Arts, Sci., Rutgers Univ., New Brunswick, N.J.**
adrenal cortex hormones; aminotransferases; blood proteins; cortisone; glycogen; neoplastic growth; nitrogen balance; nutrition; proteins

CA-05191 **HUSEBY, ROBERT A., American Med. Cr. at Denver, Spivak, Colo.**
hormones; carciongenesis; testis neoplasms; estrogens; hypophysectomy; cryptorchidism; enzymes; steroids; lactation; breat neoplasms; 17α--hydroxy--6α--methyl-progesterone; adrenal cortex hormones

(contd)

ENDOCRINOLOGY (CONTD)

CA-05225 DOUGHERTY, THOMAS F., Col. Med., Univ. Utah, Salt Lake City, Utah
adrenal cortex hormones; lymphoma; cancer chemotherapy; radiolabeled carbon; hydrocortisone; leukemia

CA-05299 PEARLMAN, WILLIAM H., Harvard Med. Sch., Boston, Mass.
adrenalectomy; androgens; breast neoplasms; carcinoma; estrogens; hypophysectomy; menopause; metabolites; ovariectomy; progesterone; sex hormones; tritium

CA-05371 DOE, RICHARD P., Veterans Admin. Hosp., Minneapolis, Minn.
ACTH; adrenal cortex hormones; blood..plasma; bronchogenic carcinoma; glycoproteins; 17-hydroxycorticosteroids

CA-05489 ISLER, HENRI G., Univ. Montreal, Montreal, Canada
dietary deficiency; iodine; cell differentiation; thyroid neoplasms; neoplasms transplantation

CA-05736 MELLETTE, SUSAN J., Med. Col. Virginia, Richmond, Va.
vitamin K; estrogens; carcinogenesis; reproductive system, female; breast neoplasms

CA-05955 KISTNER, ROBERT W., Free Hospital for Women, Brookline, Mass.
progestins; cancer chemotherapy; uterus neoplasms; carcinogenesis; methylcholanthrene; uterus..endometrium

CA-06142 RUSSFIELD, AGNES B., Children's Cancer Res. Fdn., Boston, Mass.
pituitary neoplasms; neoplasms transplantation; gonadotropins; estrogens; carcinogenesis; neoplastic growth; metastasis; latent cancer; endocrine glands; pituitary gland transplantation

CA-06528 LEWIN, ISAAC, The Stritch Med. Sch., Loyola Univ., Chicago, Ill.
steroid hormones; radiolabeled calcium; radiolabeled strontium; calcium; endocrine glands; thyroid function

CA-06574 GELLER, JACK, Albert Einstein Col. Med., Yeshiva Univ., Bronx, New York
ACTH; androgens; carcinoma; dexamethasone; gonadotropins; 17-hydroxycorticosteroids; 17α-hydroxyprogesterone caproate; 17-ketosteroids; LH; phosphomonoesterases..acid phosphatase; phosphomonoesterases..alkaline phosphatase; prostate hypertrophy; prostate neoplasms; therapy evaluation

CA-06841 DOMINGUEZ, OSCAR V., American Med. Cr., Spivak, Colo.
testis; testis neoplasms; hyperadrenalism; carcinogenesis; hyperorchidism; cryptorchidism; estrogens; androgens; pregnenolone; testosterone; tritium; radiolabeled carbon; enzymes

CA-06855 SPROUL, EDITH E., Health Research, Inc., Buffalo, N.Y.
thyrotropin; somatotropin; lymphatic tissue; thyroidectomy; pituitary gland; pituitary neoplasms; spleen; radioisotopes..iodine 131; radiation effects; immunoelectrophoresis; cell differentiation; lymphoma

CA-06873 GOLDZIEHER, JOSEPH W., Southwest Fdn. Res., Educ., San Antonio, Tex.
steroid hormones; prostate hyperplasia; prostate; prostate neoplasms; testis neoplasms; estrogens; metabolites; progesterone; 17α-hydroxyprogesterone; pregnenolone; testosterone

CA-07004 GUNN, SAMUEL A., Sch. Med., Univ. Miami, Miami, Fla.
cadmium; carcinogenesis; carcinogenesis inhibitors; carcinogens; hypophysectomy; LH; neoplastic growth; pituitary hormones; sex hormones; testis neoplasms; zinc

CA-07038 TAMAOKI, BUN-ICHI, National Inst. Radiological Sciences, Chiba-shi, Japan
androgens; chemical structure; enzymes; estrogens; hypophysectomy; pituitary gland; testis neoplasms

CA-07057 HARDING, BOYD W., Sch. Med., Univ. Southern California, Los Angeles, Cal.
ACTH; ascorbic acid; pyridine nucleotides; oxidation--reduction; cytochrome; steroids; hydroxylation reactions; tissue respiration

CA-07103 PINCUS, GREGORY, Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
breast neoplasms; estrogens; androgens; adrenalectomy; hypophysectomy; ovariectomy; therapy evaluation; diagnostic tests; 17--hydroxycorticosteroids; 5β--androstane--3α--ol--17--one; menopause; urinary tract

CA-07136 KLAVINS, JANIS V., Duke Univ. Med. Cr., Durham, N.C.
neoplastic growth; estradiol; uterus neoplasms..cervix neoplasms; uterus..endometrium; carcinogenesis; 20-methylcholanthrene; ovariectomy

CA-07152 PLOTZ, E.J., Albany Med. Cr. Hosp., Albany, N.Y.
carcinogenesis; ovary; estrogens; uterus..endometrium; uterus neoplasms; uterus hyperplasia; estradiol; estrone; estriol

CA-07434 GAWIENOWSKI, ANTHONY M., Grad. Sch., Univ. Massachusetts, Amherst, Mass.
diethylstilbestrol; metabolites; radiolabeled carbon; tritium

CA-07470 WHITE, ABRAHAM, Albert Einstein Col. Med., New York, N.Y.
research programs; lymphatic tissue; lymphosarcoma; proteins; enzymes; steroids; blood cells..lymphocytes; cell components..lysosomes; adrenal cortex hormones

CA-07535 MacLEOD, ROBERT M., Univ. Virginia Sch. Med., Charlottesville, Va.
nucleases..ribonuclease; ribonucleic acid; enzyme substrate; chemical bonds..bond cleavage; polynucleotides; depolymerization; lymphosarcoma P 1798; lymphatic tissue; breast neoplasms; estradiol; progesterone; prolactin; brain..hypothalamus; carcinogenesis

CA-07921 FARNSWORTH, WELLS E., Veterans Administration Hosp., Buffalo, N.Y.
testosterone; blood..plasma; aging; prostate neoplasms; carcinoma; hyperplasia; prostate; neoplastic growth; instrumentation--methodology; gas chromatography

CA-07954 BESCH, PAIGE K., University Hosp., Columbus, Ohio
estrogens; uterus..endometrium; adenocarcinoma; ovary; uterus neoplasms

CA-07971 KWASS, GEORGE F., St. Vincent Hosp., Worcester, Mass.
ovary; ovary neoplasms; polycystic ovary; sex hormones; steroid hormones

CA-08062 WOODRUFF, J. DONALD, Johns Hopkins Hosp., Baltimore, Md.
ovary neoplasms; hormones; menopause..postmenopause; estrogens; 17--ketosteroids; gonadotropins; surgery..preoperative; surgery..postoperative; foreign bodies

CA-08281 CONWAY, LOUIS W., Med. Col. Virginia, Richmond, Va.
breast neoplasms; carcinoma; diabetes; diabetic retinopathy; pituitary gland; bond..sella turcica

DE-01518 STANDISH, S. MILES, Sch. Dent., Indiana Univ., Indianapolis, Ind.
salivary glands; endocrine glands; connective tissue; fibroblasts; collagen; diabetes

DE-01621 LIU, FRANK T.Y., Sch. Dent., Univ. Pittsburgh, Pittsburgh, Pa.
somatotropin; thyroid hormones; dental caries; salivary glands; submandibular gland; estrogens; progesterone; insulin

EF-00381 STOB, MARTIN, Sch. Agr., Purdue Univ., Lafayette, Ind.
legumes; genetics..genotypes; growth factors; uterus; estrogens; androgens; carcinogens; alfalfa; plants, diseases

GM-02154 McSHAN, W.H., Grad. Sch., Univ. Wisconsin, Madison, Wis.
ACTH; amino acid; biological compounds preparation; FSH; LH; molecular structure; thyrotropin

GM-02907 LI, C.H., Sch. Med., Univ. California, Berkeley, Cal.
ACTH; aldosterone; amino acid; chemical structure--biological activity; MSH; peptides; synthesis

GM-04723 RENNELS, EDWARD G., Sch. Med., Univ. Texas, Galveston, Tex.
cytology; cell types; pituitary gland; LH; FSH; morphine; ovary; ascorbic acid; N--acetylenruaminic acid

GM-04758 LYNN, WILLIAM S., Jr., Sch. Med., Duke Univ., Durham, N.C.
adipose tissue; chemical bonds..bond cleavage; epinephrine; glucose; insulin; lipases; phosphorylation; progesterone

GM-04833 HALL, CHARLES E., Univ. Texas Med. Br., Galveston, Tex.
hormones; stress

GM-10530 CHRISTIAN, JOHN J., Albert Einstein Med. Cr., Philadelphia, Pa.
research programs; population dynamics, animal; reproduction; reproductive system; adrenal cortex hormones; ACTH; adrenal glands; androgens

GM-12493 CLAYTON, RAYMOND B., Sch. Med., Stanford Univ., Stanford, Cal.
insects; lipids; phospholipids; sterols; cholesterol; diet; life cycle; cell components..cell membrane; esterification; endocrine glands; polar molecules

GM-12559 LeBRIE, STEPHEN J., Sch. Med., Tulane Univ., New Orleans, La.
kidney function; membrane permeability and transport; water--electrolyte balance; reptiles; temperature; aldosterone; reaction sites; hormones inhibitors; osmotic pressure; chemical structure--biological activity

GM-12645 JEFFERSON, WILLIAM E., Jr., Sch. Biol. Sci., Univ. Tennessee, Memphis, Tenn.
fungi..Aspergillus niger; growth factors; steroids; radiolabeled

GM-12976 FRIEDEN, EDWARD H., Kent State Univ., Kent, Ohio
ovary; relaxin; chemical structure--biological activity

HD-00028 ROTHCHILD, IRVING, Sch. Med., Western Univ., Cleveland, Ohio
ovulation; ovary..Graafian follicle; growth; pituitary hormones; estrus cycle; progesterone; estrogens; hypophysectomy; secretory mechanisms

HD-00070 LAMB, EMMET J., Stanford Medical Cr., Palo Alto, Cal.
pregnancy; pregnancy..prolonged pregnancy; testosterone; metabolites; hirsutism; polycystic ovary; virilism; progesterone; chemotherapy; diabetes; radiolabeled carbon; erythroblastosis fetalis

HD-00072 NEW, MARIA I., Cornell Univ. Med. Col., N.Y.C.
child development; androgens; testosterone; conjugates; steroid glucuronides; gonads; adrenal glands; sex differentiation abnormalities; radiolabeled carbon; tritium

HD-00087 LAYNE, DONALD S., Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
norethynodrel; 19-norethisterone; ovulation inhibitors; estrogens

HD-00102 **BROOKS, CHANDLER McC., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.**
neuroendocrine systems; growth; brain..hypothalamus; thyroid gland; adrenal glands; hypothermia; hyperthermia; dehydration (body fluids); stress; reproduction; electrodes ..oxygen microelectrode; thyrotropin; epinephrine; norepinephrine

HD-00107 **SIITERI, PENTTI K., Univ. Texas Southwestern Med. Sch., Dallas, Texas**
pregnancy..placenta; estrogens; metabolites; steroids; fetus; reaction sites; hydatidiform mole; anencephalus; adrenal glands; estriol; dehydroepiandrosterone; radiolabeled carbon; tritium

HD-00136 **COLEMAN, RONALD L., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.**
NADH2; oxidation; uterus; estrogens; NAD linked enzymes; reductases..NADH2 cytochrome C reductase; peroxidases; dehydrogenases..lipoate dehydrogenase; dehydrogenases, lactate dehydrogenase; carbohydrases, beta--glucuronidase; aminotransferases, aspartate transaminase

HD-00139 **PAULSEN, ELSA P., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.**
adrenal glands; gonadotropins; child development; obesity; sexual precocity; hyperadrenalism; ketosteroids; adrenal cortex hormones; children adolescence

HD-00142 **ELIAS, JOEL J., Sch. Med., Univ. California, San Francisco, Cal.**
hormones; mammary gland; organ culture; insulin; ferritin; adipose tissue; fibroblasts; epithelium

HD-00231 **HAUN, CHARLES K., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
oxytocin; prolactin; pituitary gland; neuroendocrine systems; brain..hypothalamus; brain lesions; pregnancy.. pseudopregnancy; lactation; ovulation

HD-00243 **CRAWFORD, JOHN D., Massachusetts Gen. Hosp., Boston, Mass.**
metabolic diseases; growth hormones; therapy; dehydration; hyperosmolarity; electrophysiology; sulfonamides; diabetes insipidus; fats; brain..hypothalamus

HD-00371 **BONGIOVANNI, ALFRED M., Sch. Med., Children's Hosp., Philadelphia, Pa.**
steroid hormones; 11-deoxy-17-hydroxycorticosterone; hydrocortisone; hydroxylases; children; metabolites; age

HD-00374 **GRUMBACH, MELVIN M., Babies Hosp., New York, N.Y.**
longitudinal study; genetics..sex chromosomes; sex differentiation abnormalities; steroids; infants human..newborn; infants human..premature infants; growth hormones; endocrine glands disorders; age; cell components..chromatin

HD-00379 **EBERLEIN, WALTER R., Children's Hosp., Philadelphia, Pa.**
longitudinal study; infant human..newborn; children.. adolescence; thyroiditis; iodoamino acids; adrenal cortex hormones; metabolites; adrenal glands disorders; estriol; puberty precocious; fetus

HD-00394 **GESCHWIND, IRVING I., Col. Agr., Univ. California, Davis, Cal.**
brain..hypothalamus; pituitary hormones; LH releasing factor; chemical structure--biological activity

HD-00399 **STEINBERGER, EMIL, Albert Einstein Med. Cr., Philadelphia, Pa.**
cytology; epithelium; gonadotropins; pituitary hormones; reaction sites; testis; tissue culture

HD-00402 **SMITH, FRED, Sch. Med., Univ. California, Los Angeles, Cal.**
thyroid function; primates..Macaca mulatta; pregnancy.. placenta; fetus; infant animals..newborn; hypophysectomy; thyroidectomy; radiolabeled iodine; thyroxine

HD-00404 **VILLEE, CLAUDE A., Sch. Med., Harvard Univ., Boston, Mass.**
pregnancy..placenta; steroid hormones; enzymes

HD-00408 **LLOYD, CHARLES W., Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.**
nervous system..autonomic nervous system; brain..hypothalamus; adrenal glands; androgens; radiolabeled carbon; tritium; hirsutism; testosterone

HD-00412 **WELLS, LEMEN J., Sch. Med., U. Minnesota, Minneapolis, Minn.**
endocrine glands; fetus; growth; histogenesis; pancreas; pregnancy; diabetes; pregnancy.. placental transfer; hormones

HD-00415 **MAN, EVELYN B., Brown Univ., Providence, R.I.**
thyroid function; congenital abnormalities; maternal--fetal; age; stress; nutrition; pregnancy; children; iodine; infant human..newborn; mental retardation

HD-00422 **HISAW, FREDERICK L., Harvard Univ., Cambridge, Mass.**
reproductive system; phylogeny; endocrine glands; primates ..monkeys; pregnancy..placenta; ovary; estrogens; androgens; progesterone; uterus

HD-00435 **REYNOLDS, JOHN W., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
hydrocortisone; metabolites; infant human..newborn; isotope dilution (concentration) techniques; conjugates; steroid sulfates

HD-00440 **SCHWARTZ, NEENA B., Sch. Med., Univ. Illinois, Chicago, Ill.**
estrogens; progesterone; pregnancy; LH; pituitary gland; ovulation; ovariectomy; uterus; vagina; photostimulus

HD-00446 **SPAZIANI, EUGENE, Grad. Col., State Univ. Iowa, Iowa City, Iowa**
reproductive system; sex hormones; growth; estrogens;

HD-00452 **SMITH, FRED G., Jr., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.**
parathyroid glands; infant human; tetany; calcium; phosphorus; kidney function; hypoparathyroidism; fetus

HD-00456 **FORBES, THOMAS R., Sch. Med., Yale Univ., New Haven, Conn.**
progesterone; progestins; drugs interaction; spermatogenesis; sex hormones

HD-00480 **VAN WAGENEN G., Sch. Med., Yale Univ., New Haven, Conn.**
pituitary gland; biological compound preparations; FSH; ovulation; menopause..postmenopause; primates..Macaca mulatta

HD-00487 **HELLER, CARL G., Pacific Northwest Res. Fdn., Seattle, Wash.**
spermatogenesis; gonadotropins; pituitary gland; testis disorders; cytology; spermatogenic inhibitors; fertility; tritium

HD-00511 **BECK, JOHN C., McGill Univ., Montreal, Quebec, Canada**
growth hormones; pituitary hormones; fatty acids; metabolites; carbohydrates; fats; proteins; endocrine gland disorders; diabetes; metabolic diseases; therapy; immunological tests; body fluids

HD-00576 **HUGHES, EDWIN R., Univ. Arkansas Med. Cr., Little Rock, Ark.**
adrenal cortex hormones; radiolabeled; age; liver

HD-00704 **CUPPS, PERRY T., Univ. California, Davis, Cal.**
steroid hormones; adrenal glands disorders; testis disorders; genetics; growth; fertility; secretory mechanisms; kidney disorders; radiolabeled carbon

HD-00709 **SMITH, OLIVE W., Free Hosp. Women, Brookline, Mass.**
estrogens; ovary; metabolites; progesterone; ovary.. Graafian follicles; urine; gonadotropins

HD-00711 **COLAS, ANTONIO E., Univ. Oregon Med. Sch., Portland, Ore.**
estriol; adrenal cortex hormones; reaction sites; pregnancy..placenta; cyclization; liver; species; primates..monkeys

HD-00722 **DIGNAM, WILLIAM, Sch. Med., Univ. California, Los Angeles, Cal.**
estrogens; pregnancy..placenta; maternal--fetal; fetus; steroids; dehydroepiandrosterone; reaction sites; primates..monkeys; anencephalus; cortisone

HD-00739 **BRINKLEY, HOWARD J., Grad. Sch., Univ. Maryland, College Park, Md.**
ovary..corpus luteum; progesterone; pituitary hormones; estrus; pregnancy; lactation; radiolabeled carbon

HD-00778 **DAVIDSON, JULIAN M., Sch. Med., Stanford Univ., Stanford, Cal.**
gonadotropins; sex behavior; LH; FSH; reaction sites; brain; brain lesions; electrostimulus; implants; steroids; pituitary gland; sex difference

HD-00804 **HELLER, CARL G., Pacific Northwest Res. Fdn., Seattle, Wash.**
testis; cells; secretory mechanisms; androgens; estrogens; testosterone; gonadotropins; chlomiphene

HD-00984 **MEYER, ANDRE S., Grad. Col. Arts, Sci., Western Reserve Univ., Cleveland, Ohio**
juvenile hormone; chemical structure--biological activity

HD-01053 **ABBO, FRED E., Veterans Admin. Hosp., Iowa City, Iowa**
aging; exercise; androgens; 17--ketosteroids; dehydroepiandrosterone; 17--hydroxycorticosteroids; testosterone; creatinine

HD-01088 **MORRISSETTE, MAURICE C., Col. Vet. Med., Oklahoma State Univ., Stillwater, Okla.**
ovary; perfusion; LH; FSH; progesterone; prolactin; uterus, endometrium; estrus cycle

HD-01109 **PECILE, ANTONIO, Univ. Milan, Milan, Italy**
brain..hypothalamus; somatotropin; age; hypophysectomy; pituitary gland transplantation; somatotropin stimulating factor; sex hormones; hypoglycemia

HD-01117 **ROMANOFF, ELIJAH B., Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.**
ovary; steroid hormones; pregnancy; estrus cycle; progesterone; estrogens; androgens; gonadotropins; triparanol; enzyme inhibitors; perfusion; radiolabeled carbon

HD-01130 **FRANCIS, FAITH E., Sch. Med., St. Louis Univ., St. Louis, Mo.**
meconium; metabolites; steroid hormones; infant human..newborn; urine; maternal--fetal

HD-01132 **CUNNINGHAM, RUSSELL D., Univ. Alabama Med. Cr., Birmingham, Ala.**
thyroxine; proteins; binding; infant human..newborn; infant human..premature infant; erythroblastosis fetalis; metabolic diseases; synthesis; metabolites

HD-01143 **ELY, CHARLES A., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
antigonadotropic agents; immune sera; pituitary gland; LH; FSH; fertility; ovulation; cyclic functions; antifertility factors

HD-01164 **GRANT, WILLIAM C., Jr., Sch. Exptl. Endocrinology, Williams Col., Williamstown, Mass.**
endocrine glands; thyroid gland; radiolabeled iodine; scintillation counters; metamorphosis; prolactin; pituitary gland; seasonal variation; life cycle; carbohydrates; migratory animals

(contd)

LISTING OF GENERAL RESEARCH AREAS

ENDOCRINOLOGY (CONTD)

HD-01168 MELAMPY, ROBERT M., Col. Agr., Iowa State Univ., Ames, Iowa
ovary..corpus luteum; uterus..endometrium; estrus; transplantation..autotransplantation; reproductive tissue transplantation

HD-01177 HILLIARD, JASSAMINE, Sch. Med., Univ. California, Los Angeles, Cal.
ovary; sex hormones; primates..monkeys; estrogens; progesterone; estrus; lactation; pregnancy; menstrual cycle; cell types; radiolabeled; acetates; cholesterol

HD-01178 KATZMAN, PHILIP A., Med. Sch., St. Louis Univ., St. Louis, Mo.
estrogens; vagina; uterus; ovary; ovariectomy; hypophysectomy

HD-01182 GORSKI, ROGER A., Sch. Med., Univ. California, Los Angeles, Cal.
steroid hormones; fertility; estrus; brain..regulatory centers; sex behavior; infant animals; brain lesions; electrostimulus; gonadotropins; pituitary gland; tritium; androgens

HD-01187 ASDELL, SYDNEY A., Col. Agr., Cornell Univ., Ithaca, N.Y.
longevity; gonadectomy; implants; behavior; sex difference; progesterone

HD-01190 SEELY, J. RODMAN, Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
adrenal glands; infant human..newborn; infant human.. premature infants; children; adults; ACTH; electrolytes; steroids

HD-01199 TOUCHSTONE, JOSEPH C., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
adrenal glands; ketosteroids; hydroxysteroids; ovary; estrogens; adrenal cortex hormones

HD-01200 STEMPFEL, ROBERT S., Jr., Sch. Med., Duke Univ., Durham, N.C.
adrenal cortex hormones; children; endocrine glands disorders; steroids; gonadotropins; androgens; children..adolescence; hyperadrenalism; congenital abnormalities; genetics..heterozygotes; dehydrogenases..alpha-hydroxy-steroid dehydrogenase; dehydrogenases..beta-hydroxysteroid dehydrogenase; oxidation; reaction rates (chemistry)

HD-01204 SOBEL, EDNA H., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
growth; bone; age; cortisone; androgens

HD-01218 GREEN, ORVILLE C., Children's Mem. Hosp., Chicago, Ill.
children..puberty; children..adolescence; androgens; longitudinal study; sex differentiation abnormalities; endocrine glands disorders

HD-01231 WILHELMI, ALFRED E., Emory Univ., Atlanta, Ga.
growth hormones; prolactin; pituitary gland; amino acid sequence; primates..monkeys

HD-01232 VILLEE, CLAUDE A., Jr., Sch. Med., Harvard Univ., Boston, Mass.
estrogens; transhydrogenase; steroids; molecular structure; reaction sites; prostate; seminal vesicles; androgens; muscle; ACTH; adrenal glands; prolactin; ovary..corpus luteum; radiolabeled

HD-01350 STRICKLER, HERBERT S., Wm. H. Singer Mem. Res. Lab., Pittsburgh, Pa.
pregnancy; pregnanediol; estriol; 5β--androstan--3α--ol--17--one; blood..serum; copper

HD-01374 HAFS, HAROLD D., Sch. Agr., Michigan State Univ., East Lansing, Mich.
reproductive system, female; gonadotropins; LH; FSH; prolactin; infant animals; estrus cycle; growth; brain..hypothalamus; LH releasing factor; immune sera

HD-01463 SPELLACY, WILLIAM N., Sch. Med., Univ. Minnesota, Mineapolis, Minn.
pregnancy; diabetes; blood sugar; blood..plasma; insulin; growth hormones

HD-01475 THOMMES, ROBERT C., Grad. Sch., De Paul Univ., Chicago, Ill.
chick embryo; pituitary gland; thyroid gland; adrenal glands; hormones; steroids; hypophysectomy; iodoproteins; radioisotopes..iodine 131; thiourea; blood; lipids; cholesterol; acetates; carbohydrates

HD-01477 CHIEFFI, GIOVANNI, Stazione Zoologica, Villa Comunale, Naples, Italy
reproductive system; ctyology; breeding cycles; hypophysectomy; adrenal glands..interrenal gland; pituitary gland; sex hormones

HD-01481 HATHAWAY, RALPH R., Col. Letters, Sci., Univ. Utah, Salt Lake City, Utah
semen; spermatozoa; steroids; estrogens; estradiol; estrone; enzymes; fertility; oxidoreductases.. dehydrogenases

HD-01514 BARRACLOUGH, C.A., Sch. Med., Univ. Maryland, Baltimore, Md.
reproduction; nervous system..central nervous system; brain..hypothalamus; reaction sites; gonadotropins; pituitary gland; ovary..corpus luteum; cyclic functions; androgens; fertility; progesterone; estrogens

HD-01527 FRANKS, ROBERT C., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
hydrocephalus; intracranial pressure; diurnal variation; hydrocortisone; fever; adrenal glands; pituitary gland; surgery..postoperative; neurosurgery; 2--methyl--1,2--bis(3--pyridyl)--1--propanone; children

HD-01553 DE VISSCHER, MICHEL, Lab de Pathologie Generale, Louvain, Belgium
iodine; growth; children..puberty; biometry; goiter; thyroid function; sex difference; radiolabeled iodine; geographical sites..Europe

HD-01562 YOUSEM, HERBERT, Sinai Hosp., Baltimore, Md.
estriol; pregnancy..placental abruption; pregnancy.. placental transfer; pregnancy toxemias and hypertension; diabetes; immunity..isoimmunity; atropine; fetus; heart rate; enzymes; infant human..premature infant; diagnostic tests

HD-01568 LEAVITT, WENDELL W., Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio
estrogens; pituitary hormones; gonadotropins; antigonadotropic agents; transplantation..autotransplantation; uterus; ovary transplantation; brain..hypothalamus

HD-01851 PION, RONALD J., University Hosp., Seattle, Wash.
cooperative study; maternal--fetal; fetus; pregnancy..abortion; endocrine glands; pregnane series; pregnenolone

HD-01852 BLIZZARD, ROBERT M., Johns Hopkins Hosp., Baltimore, Md.
somatotropin; hypopituitarism; diagnostic tests; thyrotropin; radiolabeled iodine; immunology.. autoantibodies; growth; prolactin

HD-01853 EASTERLING, WILLIAM E., Jr., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
fetus; pregnancy..placenta; androgens; estrogens; liver; adrenal glands; hydroxylation reactions

HE-01741 PINCUS, GREGORY, Worcester Fdn. Exptl. Biol., Shrewsbury, Mass.
sex hormones; atherosclerosis; longitudinal study; steroid hormones; coronary disease

HE-01788 VAN DYKE, HARRY B., Col. Phys., Surg., Columbia Univ., New York, N.Y.
pituitary hormones..neurohypophyseal hormones; chemical structure--biological activity; peptides; binding; bioassay; oxytocin; vasopressin; endocrine glands; vasopressin

HE-04745 CRANE, MILTON G., Loma Linda Univ., Los Angeles, California
adrenal cortex hormones; adrenal hypertension; hydroxylation reactions; radiolabeled carbon; deoxycorticosterone; hydrocortisone; 11-hydroxysteroids; hydroxylases ..steroid 11-hydroxylase; hirsutism

HE-04751 KORNEL, LUDWIG, Univ. Alabama Med. Cr., Birmingham, Ala.
adrenal cortex hormones; adrenal hypertension; hypertension (systemic); radiolabeled carbon

HE-06420 GENEST, JACQUES, Hotel-Dieu Hosp., Montreal, Canada
hypertension (systemic); blood; angiotensin; hyperaldosteronism; pregnane series; pregnanetriol; sodium; kidney function; renal hypertension; adrenalectomy; Addison's disease

HE-07012 GROOVER, MARSHALL E., Jr., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
stress; atherosclerosis; endocrine glands; lipids; mucoproteins; coronary diseases; primates

HE-07083 SALGADO, ERNESTO D., Sch. Med., Dent., Seton Hall Col., Jersey City, N.J.
thyroid gland; hypertension (systemic); blood pressure; blood vessels; kidney; mesentery

HE-07343 HYDE, PAUL M., Sch. Med., Louisiana State Univ., New Orleans, La.
adrenal glands; aldosterone; corticosterone; deoxycorticosterone; diet; estrogens inhibitors; hypertension (systemic); hyperthyroidism; isotope dilution (concentration) techniques; kidney; methylandrostenediol; nephrectomy; radiolabeled carbon; radiolabeled tritium; renal hypertension; sodium chloride

HE-08110 BARBOUR, BENJAMIN H., Sch. Med., Univ. Southern California, Los Angeles, Cal.
saluresis; angiotensin; angiotensinase; aldosterone; hypertension (systemic); edema (generalized); renal hypertension; hyperaldosteronism

HE-08172 BELAMARICH, FRANK A., Grad. Sch., Boston Univ., Boston, Mass.
amino acid sequence; chemical structure--biological activity; ganglion, nervous system..autonomic ganglia; gastrointestinal motility; hydrogen-ion concentration; neurohormones; peptides; pericardial organ; resoiration

HE-08350 KEYL, JACK M., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
adrenalectomy; aldosterone inhibitors; angiotensin II; ion..cation; kidney function; kidney..renal tubular transport; renal hypertension; water-electrolyte balance

HE-08371 SULYA, LOUIS L., Univ. Mississippi Med. Cr., Jackson, Miss.
aldosterone; aldosterone inhibitors; binding; membrane permeability; progesterone; proteins; renal hypertension; sodium; spirolactones; tritium

HE-08417 ARMSTRONG, MARK L., Veterans Admin. Hosp., Iowa City, Iowa
proteases..renin; vasoactive agents..vasopressors; kidney.. juxtaglomerular apparatus; adrenal cortex hormones; hypertension (systemic); sodium; diet; water--electrolyte balance

HE-08688 **TRAVIS, RANDALL H., University Hosp., Cleveland, Ohio**
aldosterone; aldosterone inhibitors; hydration, body fluids; hydrocortisone; nephrectomy; radiolabeled carbon; tritium

HE-09279 **DINGMAN, JOSEPH F., Robert B. Brigham Hosp., Boston, Mass.**
paper chromatography; instrumentation; steroid hormones; endocrine glands disorders; metabolic diseases; 17--ketosteroids; sex hormones; cholesterol

HE-09501 **SCHROEPFER, GEORGE J., Jr., Grad. Sch., Univ. Illinois, Urbana, Ill.**
sterols; enzymes; chemical structure; metabolites; deuterium; radiolabeled carbon; biological compounds preparation

HE-09693 **WONG, HARRY Y.C., Col. Med., Howard Univ., Washington, D.C.**
lipids; atherosclerosis; diet; exercise; cholesterol; sex hormones; liver; cell components..microsomes; cell components..mitochondria; enzymes

HE-10042 **PORTER, GEORGE A., Univ. Oregon Med. Sch., Portland, Ore.**
sodium; kidney..renal tubular transport; aldosterone; ribonucleic acid

NB-00838 **FINGERMAN, MILTON, Liberal Arts Col., Tulane Univ., New Orleans, La.**
melanin; chromatophores; retinal screening pigments; eye.. retina; invertebrate hormones; eye..compound eye

NB-00862 **SMITH, STUART W., Sch. Med., Univ. Colorado, Denver, Colo.**
pituitary hormones..neurohypophyseal hormones; proteins; ganglion, nervous system..symoathetic ganglia; nerves.. Nissl bodies; radioautography; ribonucleic acid; deoxyribonucleic acid; purine; pyrimidine; aldehydes; spectrophotometry; instrumentation; nervous system..central nervous system; cell differentiation

NB-01556 **FISKE, VIRGINIA M., Wellesley Col., Wellesley, Mass.**
brain..hypothalamus; neurosecretion; gonadotropins; ACTH; photobiology; serotonin; melatonin; brain..pineal body; pituitary gland; adrenal glands; diurnal variation

NB-02976 **ALPERT, MORTON, Sch. Med., Indiana Univ., Bloomington, Ind.**
pituitary gland; adrenal glands; stress; stereotaxia; embryology; environment; brain, hypothalamus

NB-03000 **OPPENHEIMER, JACK H., Montefiore Hosp., Bronx, N.Y.**
thyroxine; albumins; thyroxine-binding proteins; diphenylhydantoin; penicillin; chemical structure--biological activity; reaction sites

NB-03028 **HOLLAND, ROBERT C., Sch. Med., Univ. Arkansas, Little Rock, Ark.**
brain mapping; electrophysiology; drugs; nervous system..afferent nerves; pituitary gland..neurohypophysis; oxytocin; vasopressin; neuroendocrine systems

NB-03380 **SAFFRAN, MURRAY, Faculty Med., McGill Univ., Montreal, Quebec, Canada**
peptides; pituitary hormones; pituitary gland..neurohypophysis; chemical structure--biological activity; brain

NB-03556 **BRILL, NORMAN Q., Sch. Med., Univ. California, Los Angeles, Cal.**
stress; dietary deficiency; brain; pituitary gland; adrenal glands; vitamin; appetite; neuroendocrine systems

NB-03801 **SCHWARTZ, NEENA B., Col. Med., Univ. Illinois, Chicago, Ill.**
thyroxine; propylthiouracil; neuromuscular system; growth hormones; estrogens; muscle contraction; actomyosin; catecholamines; phosphatases..adenosine triphosphatase; electrostimulus; threshold; pregnancy..pseudopregnancy; uterus neoplasms

NB-03860 **KAWAKAMI, MASAZUMI, Sch. Med., Yokohama Univ., Yokohama, Japan**
brain..hypothalamus; electroencephalography; pituitary gland; gonadotropins; sex behavior; brain lesions; sex hormones; antifertility factors; norethynodrel; 19--norethisterone; 17 alpha--hydroxyprogesterone caproate; pentobarbital; atropine; dibenamine hydrochloride; morphine; reserpine; chlorpromazine; sleep

NB-03937 **WORTHINGTON, W. CURTIS, Jr., Med. Col. So. Carolina, Charleston, S. C.**
pituitary gland; blood supply; blood circulation dynamics; neurosecretion

NB-03977 **CLEGG, MOSES T., Sch. Agr., Univ. California, Davis, Cal.**
brain, hypothalamus; brain lesions; electrostimulus; sex hormones; reproduction; sex behavior; gonadotropins; veins..cavernous sinus, reproductive; photostimulus; seasonal variation

NB-04199 **BARRACLOUGH, CHARLES A., Sch. Med., Univ. Maryland, Baltimore, Md.**
brain..hypothalamus; electroencephalography; fertility; gonadotropins; implants; lactation; neuroendocrine systems; ovulation; pregnancy..childbirth; reflex; sex hormones; uterus..cervix

NB-04499 **GEORGE, ROBERT, Sch. Med., U. California, Los Angeles, Cal.**
nervous system..central nervous system; carbohydrates; brain..hypothalamus; brain lesions; electrostimulus; diabetes; somatotropin; ACTH; thyrotropin; prolactin

NB-04963 **KENNY, FREDERIC M., Children's Hosp. Pittsburgh, Pittsburgh, Pa.**
children; infant human..newborn; hydrocortisone; bacteremia; bacteria..Neisseria menigitidis; radiolabeled carbon; adrenal glands

NB-04996 **SHENKIN, HENRY A., Episcopal Hosp., Philadelphia, Pa.**
ACTH; brain damage; chemotherapy; diurnal variation; 17-hydroxycorticosteroids; intracranial pressure; neurosurgery

NB-05716 **RALL, THEODORE W., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
adenosine 3', 5'--monophosphate; neurohormones; brain; muscles..smooth muscle; heart..myocardium; thyroid gland; catecholamines; histamine; thyrotropin; glycogenolysis

NB-06238 **WERK, EMILE E., Jr., General Hosp., Cincinnati, Ohio**
muscle relaxants..anticonvulsants; diphenylhydantoin; hydrocortisone; steroids; epilepsy; therapy evaluation; radiolabeled carbon

ENVIRONMENTAL SCIENCES AND ENGINEERING

AP-00012 **GOETZ, ALEXANDER, California Inst. Tech., Pasadena, Cal.**
air pollution; gases; colloids; aerosols; photochemistry

AP-00018 **HISATSUNE, I.C., Col. Chem., Physics, Pa. State Univ., University Park, Pa.**
deuterium; nitrogen oxides; organic compounds

AP-00023 **ADAMS, DONALD F., Washington State Univ., Pullman, Wash.**
gas chromatography; odors; air pollution; industrial wastes; air sampling; sulfur compounds

AP-00031 **MUELLER, PETER, California State Dept. Pub. Hlth., Berkeley, Cal.**
air pollution; chronic disease; longitudinal study; morbidity; mortality; cardiovascular diseases; respiratory diseases; lung neoplasms; industrial wastes; combustion exhausts; smoking; instrumentation--methodology; statistics

AP-00033 **KAISER, ELMER R., Col. Eng., New York Univ., N.Y.C.**
air pollution; combustion exhausts; socioenvironment.. urban areas; waste disposal

AP-00039 **QUON, JIMMIE E., Northwestern Univ., Evanston, Ill.**
air pollution; aerosols; instrumentation-methodology; combustion exhausts

AP-00040 **DUGGER, W.M., Jr., Univ. California, Riverside, Cal.**
air pollution; chlorophyll; glycosides; oxidants; phosphorylation; photochemistry; plants; toxicology

AP-00044 **KERKER, MILTON, Clarkson Col. Tech., Potsdam, N.Y.**
air pollution; aerosols; silver chloride; linolenic acid; sodium chloride; n-caprylic acid

AP-00052 **THOMPSON, C. RAY, Citrus Expt. Station, Univ. California, Riverside, Cal.**
air pollution; oxidants; fluorides; carbohydrates; enzymes; toxicology; citrus

AP-00065 **KINDIG, JAMES K., Col. Mineral Ind., Pennsylvania State Univ., University Pk., Pa.**
air pollution; industrial wastes; waste treatment

AP-00081 **OGDEN, EUGENE C., Sch. Pub. Hlth., Univ. State New York, Albany, N.Y.**
pollen; air sampling; geophysics; instrumentation

AP-00084 **AMDUR, MARY O., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.**
aerosols; air pollution; histamine; hypersensitivity; irritants; respiratory system

AP-00090 **COWAN, DONALD W., Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.**
air pollution; asthma; hypersensitivity tests; air sampling; gases; sulfur; nitrogen; grain; dust; pollen; fungi..molds; proteins; fractionation

AP-00093 **MANGANELLI, RAYMOND M., Rutgers State Univ., New Brunswick, N.J.**
air pollution; gases; air sampling; sulfur dioxide; aerosols

AP-00107 **SAGE, BRUCE H., Grad. Sch., Cal. Inst. Tech., Pasadena, Cal.**
air pollution; nitrogen oxides; combusion exhausts; infrared spectrometry

AP-00108 **SAGE, BRUCE H., Grad. Sch., California Inst. Tech., Pasadena, Cal.**
combustion exhausts; air pollution; nitrogen oxides

AP-00109 **PITTS, JAMES N., Univ. California, Riverside, Cal.**
air pollution; photochemistry; nitrogen dioxide; aldehydes; ketones; free radicals; hydrocarbons; aromatic compounds

AP-00117 **WEST, PHILIP W., Grad. Sch., Louisiana State Univ., Baton Rouge, La.**
aerosols; air pollution; air sampling; dust; instrumentation-methodology

AP-00131 **CALVERT, JACK G., Ohio State Univ., Columbus, Ohio**
atmosphere; air pollution; photochemistry; oxidation; metal oxides; surface properties; photosensitivity; free radicals; sulfur dioxide; formaldehyde

AP-00136 **WHITBY, KENNETH T., Univ. Minnesota, Minneapolis, Minn.**
aerosols; ions; particle size

AP-00182 **ESTES, FRANCES L., Univ. Texas Med. Branch, Galveston, Texas**
air pollution; Krebs cycle; enzymes inhibitors; sulfatine enzymes; sulfatases

AP-00186 **DE JUHASZ, KALMAN J., 423 West Park Ave., State College, Pa.**
publications..literature survey; air pollution; aerosols; dust

AP-00191 **CORN, MORTON, Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.**
air pollution; air flow; adhesion; surface properties

(contd)

LISTING OF GENERAL RESEARCH AREAS

ENVIRONMENTAL SCIENCES AND ENGINEERING (CONTD)

AP-00192 TRESHOW, MICHAEL, Sch. Letters, Sci., Univ. Utah, Salt Lake City, Utah
air pollution: fluorides: fungi..plant fungi: reproduction, microorganisms; growth, microorganisms; viruses..plant viruses

AP-00194 ALLEY, FORREST C., Sch. Eng., Clemson Col., Clemson, S.C.
air pollution; hydrocarbons; nitrogen dioxide; photochemistry; temperature

AP-00207 BALCHUM, OSCAR J., Sch. Med., Univ. Southern California, Los Angeles, Cal.
air pollution; bronchitis; computer analysis; infectious diseases; longitudinal study; pulmonary emphysema; pulmonary function; respiratory diseases; smoking; socioenvironment

AP-00211 LOW, MANFRED J. D., Sch. Chem., Rutgers State Univ., New Brunswick, N. J.
zinc oxide: adsorption: gases: surface properties: air pollution: carbon: instrumentation-methodology: chemical structure: solid state (chemistry): catalysts

AP-00216 RIEHL, HERBERT, Col. Eng., Colorado State Univ., Fort Collins, Colo.
air flow, meteorology: air pollution: air sampling: climate: cooperative study; geographical sites..Colorado; geographical sites..Rocky Mountain region; geophysics; photography: socioenvironment..urban areas

AP-00222 SUSSMAN, VICTOR H., Pennsylvania Dept. Hlth., Harrisburg, Pa.
air pollution; geographical sites; industrial wastes; population dynamics, human; climate; air flow (meteorology); air sampling; geophysics

AP-00224 PANOFSKY, HANS A., Col. Mineral Industries, Pennsylvania State Univ., University Park, Pa.
air flow (meteorology): air pollution: atmosphere: geographical sites..Pennsylvania; health department; public health

AP-00233 HEWSON, EDGAR W., Sch. Eng., Univ. Michigan, Ann Arbor, Mich.
flowmeters; atmosphere; instrumentation--methodology; performance; cost; air pollution

AP-00242 GLENN, RICHARD A., Bituminous Coal Res., Inc., Monroeville, Pa.
air pollution; air sampling; carcinogens; combustion exhausts; cooperative study; hydrocarbons; industrial wastes; polycyclic compounds

AP-00246 SHULMAN, HERMAN L., Grad. Sch., Clarkson Col. Technology, Potsdam, N.Y.
gases: aluminum silicates: molecular sieves; adsorption; counter--current fractionation; instrumentation--methodology: air filters and filtration

AP-00256 GREENBURG, LEONARD, Albert Einstein Col. Med. New York City, N. Y.
air pollution: publications..book: conferences: conferences: cooperative study: instrumentation-methodology: air sampling

AP-00259 BURGESS, WILLIAM A., Harvard Sch. Pub. Hlth., Boston, Mass.
air pollution; air filters and filtration; respirators; aerosols: criteria: air flow (meteorology)

AP-00270 THOMPSON, C. RAY, Univ. California, Riverside, Cal.
air pollution: citrus: fluorides: food quality: geographical sites..California: growth: oxidants: plants

AP-00271 PATTERSON, CLAIR C., California Inst. Tech., Pasadena, Cal.
lead; geographical sites; air pollution; water pollution

AP-00275 TEBBENS, BERNARD D., Col. Eng., Univ. California, Berkeley, Cal.
aromatic compounds; synthesis; thermodynamics; benzene; methane: propanes: public health: combustion exhausts

AP-00283 WHITBY, KENNETH T., Univ. Minnesota, Minneapolis, Minn.
aerosols; air pollution; criteria; instrumentation-methodology: particle counters, optical: particle size

AP-00289 SCHUCK, EDWARD A., Univ. California, Riverside, Cal.
photochemistry; air pollution; atmosphere; hydrocarbons: nitrogen oxides: sulfoxides: aerosols: irritants

AP-00291 MURRAY, FRANCIS E., British Columbia Res. Council, Univ. British Columbia Campus, Vancouver, B.C., Canada
air pollution: combustion exhausts: industrial wastes: smell; sulfur compounds; waste treatment

AP-00301 THOMAS, JEROME F., Sanitary Engineering Res. Lab., Univ. California, Richmond, Cal.
air pollution; odors; indsutrial wastes; sulfur compounds; combustion exhausts

AP-00302 CORN, MORTON, Grad. Sch., Univ. Pittsburgh, Pittsburgh, Pa.
air pollution: air sampling: dust: light scattering

AP-00308 LOVELOCK, JAMES E., Col. Arts, Sci., Univ. Houston, Houston, Tex.
air pollution: instrumentation-methodology: gases: ionization detectors: air sampling

AP-00315 TURK, AMOS, Sch. Lib. Arts, Sci., The City College, N.Y.C.
air sampling; adsorption; odors; instrumentation; olefins; haloacids: air pollution

AP-00319 FRIEDLANDER, SHELDON K., California Inst. Technology, Pasadena, Cal.
atmosphere; aerosols; particle size; respiratory system

AP-00320 CALVERT, SEYMOUR, Col. Engr., Pennsylvania State Univ., University Park, Pa.
air pollution: surface active agents: gases: diffusion: hydrodynamics: air filters and filtration: adsorption

AP-00323 LONG, RONALD, Univ. Birmingham, Birmingham, England
air pollution; combustion exhausts; carcinogens; hydrocarbons: polycyclic compounds: 3,4--benzpyrene: addition reactions (chemistry)

AP-00334 DeJUHASZ, KALMAN J., 423 W. Park Ave., State College, Pa.
publications..literature survey: air pollution: aerosols

AP-00336 ROSSANO, AUGUST T., Jr., Col. Eng., Univ. Washington, Seattle, Wash.
aerosols; air pollution; atmosphere; light scattering; optical density

AP-00345 ORR, CLYDE, Jr., Georgia Inst. Technology, Atlanta, Ga.
air pollution: climate..humidity: aerosols

AP-00351 ORR, CLYDE, Jr., Georgia Inst. Technology, Atlanta, Ga.
aerosols: particle size: instrumentation--methodology: vapors

AP-00355 RIPPERTON, LYMAN A., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N. C.
air pollution: toxicology: hydrocarbons: nitrogen oxides: nitrogen dioxide: photochemistry: infants (animals): growth: urine: lung: liver: detoxication

AP-00357 URONE, PAUL, Col. Arts, Sci., Univ. Colorado, Boulder, Colo.
air pollution: sulfur dioxide: hydrocarbons

AP-00363 SARKANEN, KYOSTI V., Col. Eng., Univ. Washington, Seattle, Wash.
air pollution: odors: industrial wastes: hydrogen sulfide; sulfur compounds; reaction rates (chemistry)..formation constants

AP-00370 GRUBER, CHARLES W., Bureau Air Pollution Control, Cincinnati, Ohio
aerosols: instrumentation--methodology: air sampling; combustion exhausts; industrial wastes; criteria: particle size: atmosphere

AP-00373 ORR, CLYDE, Jr., Georgia Inst. Technology, Atlanta, Ga.
aerosols: air purification: instrumentation--methodology: industrial wastes

AP-00383 DOUGLASS, IRWIN B., Univ. Maine, Orono, Me.
air pollution: odors; industrial wastes; gases; hydrogen sulfide: sulfur compounds: reaction rates (chemistry)

AP-00387 AYEN, RICHARD J., Col. Chem., Univ. California, Berkeley, Cal.
nitrogen oxides: reduction: catalysts: air pollution

AP-00388 PETERS, MAX S., Col. Eng., Univ. Colorado, Boulder, Colo.
reduction: nitrogen oxides: catalysts: nickel: air pollution: industrial wastes

AP-00389 CROCKER, THOMAS D., Col. Letters, Sci., Univ. Wisconsin, Milwaukee, Wis.
air pollution: socioeconomics: industrial wastes: fluorides; public health; ecology, human; cost; air purification: geographical sites..Florida

AP-00390 McMILLAN, GARNETT R., Grad. Sch., Western Reserve Univ., Cleveland, Ohio
photochemistry: oxidation: nitrites: vapors: free radicals: air pollution

AP-00406 WALKER, PHILIP L., Jr., Col. Mineral Industries, Pennsylvania State Univ., University Park, Pa.
sulfur dioxide: carbon: temperature: oxygen: water: surface properties: adsorption

AP-00413 DELAND, RAYMOND J., Sch. Eng. Sci., New York Univ., Bronx, N.Y.
air pollution; air flow (meteorology); temperature; geographical sites..Minnesota; computer; cooperative study

AP-00417 BRADDOCK, LE ROY I., Univ. Pennsylvania Hosp., Philadelphia, Pa.
air pollution: toxicology: aerosols: particle size: visual perception; colorimetry; instrumentation--methodology

AP-00421 CROSBY, EDWIN J., Univ. Wisconsin, Madison, Wis.
coalescence: aerosols: molecular condensations

AP-00423 URONE, PAUL, Col. Arts, Sci., Univ. Colorado, Boulder, Colo.
air pollution; air sampling; oxidants; ozone; combustion exhausts: instrumentation--methodology

AP-00425 HODKINSON, JOHN R., Sch. Arts, Sci., Virginia State Col., Petersburg, Va.
aerosols: particle size: light scattering: instrumentation--methodology; biomathematics, optics; computer analysis

AP-00431 CORN, MORTON, Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
particle size: aerosols: air sampling: industrial wastes: air pollution: mathematical models

CA-08147 NEAL, JACK, Univ. Texas Med. Br., Galveston, Tex.
air pollution; air sampling; carcinogens; industrial wastes

CC-00019 SHAFFER, JAMES G., Lutheran Gen. Hosp., Park Ridge, Ill.
hospitals infections; hospitals sanitation; air filters and filtration; bacteria..airborne bacteria; disease transmission; air sampling; criteria

EF-00003 KOSIKOWSKI, FRANK V., Cornell Univ., Ithaca, N.Y.
anaerobiosis; antibiotics; bacteria..Bacillus subtilis; bacteria..Sarcina lutea; bacteria..Staphylococcus aureus; food contamination; milk

EF-00008 HOPPER, SAMUEL H., Univ. Med. Cr., Indianapolis, Ind.
food contamination; staphylotoxins; aeration; ion..cation; luminofluorescence; water pollution; ion exchange and transport

EF-00024 WEISER, HENRY H., Col. Arts, Sci., Ohio State Univ., Columbus, Ohio
water supply; bacteria..Salmonella; bacteria..Shigella; public health; chlorination; genetic strains; bacteria.. enterobacteria; dairy products; viruses..enteroviruses

EF-00040 BURCHINAL, JERRY C., Col. Eng., West Virginia Univ., Morgantown, W. Va.
waste disposal; aerobiosis; anaerobiosis; thermophiles; bacteria..Escherichia coli; bacteria..Aerobacter aerogenes; soil

EF-00044 SIGLER, WILLIAM F., Grad. Sch., Utah State Univ., Logan, Utah
algae; detergents; fish; toxicology

EF-00047 HOSTY, THOMAS S., Alabama Dept. Pub. Hlth., Montgomery, Ala.
water pollution; bacteria..enterobacteria; mollusks; coastal waters; ecology, microorganisms; geographical sites..United States; seafood

EF-00082 MERCER, WALTER A., Natl. Canners Assn., Berkeley, Cal.
food processing; water supply; sanitation

EF-00102 SUNDERLAND, J. EDWARD, Georgia Inst. Technology, Atlanta, Ga.
food processing; freeze-drying; thermodynamics

EF-00108 MERCER, WALTER A., National Canners Assn., Berkeley, Cal.
waste disposal; waste treatment; food processing; fruit; vegetables; sanitation; aerobes; nitrogen; calcium carbonate; hydrogen-ion concentration

EF-00113 AYRES, JOHN C., Iowa State Univ., Ames, Iowa
food processing; bacteria..enterobacteria; poultry; growth (microorganisms); freezing; minerals

EF-00123 ANDERSON, A.W., Sch. Sci., Oregon State Univ., Corvallis, Ore.
food processing; radiation effects; seafood; pasteurization; bacteria..Staphylococcus; bacteria.. enterobacteria; bacteria..Salmonella

EF-00124 BOHRER, C. WALLACE, Natl. Canners Assn., Washington Res. Lab., Washington, D.C.
food contamination; staphylotoxins; genetic strains; bacteria..Staphylococcus; heat lability; sterilization

EF-00160 MERZ, ROBERT C., Sch. Eng., Univ. Southern California, Los Angeles, Cal.
sewage treatment; sanitary engineering; soil

EF-00161 KAUFMANN, OLIVER W., Grad. Sch., Michigan State Univ., East Lansing, Mich.
milk; cultural media; bacteria..Clostridium botulinum; growth, microorganisms; toxins; temperature

EF-00170 MACKINNEY, G., Col. Agr., Univ. California, Berkeley, Cal.
food processing; instrumentation-methodology; criteria; judgement

EF-00176 JENNINGERS, WALTER G., Col. Agr., Univ. California, Davis, Cal.
sanitation; detergents; food processing; surface properties; temperature; soil

EF-00180 GOULD, IRA A., Col. Agr., Ohio State U., Columbus, Ohio
spores; microorganisms; milk; bacteria..Bacillus; heat; growth, microorganisms; public health

EF-00186 HARPER, JOHN C., Col. Agr., Univ. California, Davis, Cal.
food processing; fruit; vegetables; liquid flow

EF-00204 OLSON, NORMAN F., Col. Agr., Univ. Wisconsin, Madison, Wis.
food processing; dairy products; hydrogen peroxide; bactericides

EF-00245 LONGREE, KARLA, New York State Col. Home Econ., Cornell Univ., Ithaca, N.Y.
dairy products; food processing; thermodynamics

EF-00246 MACNAB, JAMES A., Portland State Col., Portland, Ore.
coastal waters; indicators; marine biology; sulfides; sulfites; toxicology; water pollution

EF-00255 SPLITTSTOESSER, D.F., Sch. Agr., Cornell Univ., Geneva, N.Y.
food contamination; food processing; frozen foods; microorganisms; sanitation

EF-00262 HARTMAN, JOHN D., Col. Agr., Cornell Univ., Ithaca, N.Y.
instrumentation; odors; taste; nose

EF-00265 HART, SAMUEL A., Col. Eng., Univ. California, Davis, Cal.
feces; fertilizers; waste treatment; water pollution

EF-00275 STEINBERG, MARVIN P., Grad. Sch., Univ. Illinois, Urbana, Illinois
food contamination; food processing; frozen foods; dehydrated foods

EF-00299 LAREW, H.G., Sch. Eng., Univ. Virginia, Charlottesville, Va.
densitometry; geophysics; instrumentation-methodology; radiation counters; soil; water flow

EF-00309 SCHNEIDER, NATHAN J., Florida State Board Hlth., Jacksonville, Fla.
food contamination; food processing; microorganisms; public health; sanitation

EF-00310 DIFFEE, JOHN T., Christian Brothers Col., Memphis, Tenn.
water pollution; calcium; spectrophotometry; trace elements

EF-00317 HANKINSON, DENZEL J., Col. Agr., Univ. Massachusetts, Amherst, Mass.
dairy products; food sanitation; hydrodynamics; pasteurization

EF-00327 TOOKE, W. RAYMOND, Jr., Georgia Inst. Technology, Atlanta, Ga.
bactericides; contamination; microorganisms; sanitary engineering

EF-00349 POWERS, JOHN J., Col. Agr., U. Georgia, Athens, Ga.
anthocyanins; bacteria; growth factors; growth inhibitors; chemical structure--biological activity; food poisoning

EF-00395 SCHROEPFER, GEORGE J., Sch. Civil Eng., Univ. Minnesota, Minneapolis, Minn.
diffusion; geographical sites..Minesota; hydrodynamics nitrates; nitrogen compounds; sewage; socioenvironment.. urban areas; soil; water pollution; water supply

EF-00410 HAZEN, THAMON E., Iowa State Univ., Ames, Iowa
waste treatment; feces; soil pollution; water pollution; bacteria; disease transmission; agriculture; radiation effects

EF-00416 STADELMAN, WILLIAM J., Purdue Res. Fdn., Lafayette, Ind.
meat; food processing; screening; bacteria..Salmonella; bacteria..Staphylococcus

EF-00442 DAWSON, L. E., Michigan State Univ., East Lansing, Mich.
food preservation; freezing; organic acids; bacteria; frozen foods; dairy products

EF-00444 BARIBO, LESTER, Microbiological and Biochemical Cr., Syracuse, N.Y.
Food containers; food processing; plastics; airborne infections; electrical fields; temperature; climate.. humidity; ionizing radiation; radiation effects; potentials

EF-00482 MAXCY, R. BURT, Col. Agr., Univ. Nebraska, Lincoln, Nebr.
sterilization; food processing; lye; microorganisms; growth, microorganisms; cell death; criteria; temperature; food sanitation

EF-00493 FITZGERALD, GEORGE P., Sch. Eng., Univ. Wisconsin, Madison, Wis.
algae; algicides; amine; bacteria..Staphylococcus aureus; bactericides; chlorination; copper; metal chelates; quaternary ammonium compounds; sanitation; swimming pools

EF-00502 SEDLANDER, NORMAN R., Univ. Toledo, Toledo, Ohio
aeration; geographical sites..Ohio; inland fresh waters; sanitary engineering; water quality; water treatment

EF-00524 WITZEL, STANLEY A., Col. Agr., Univ. Wisconsin, Madison, Wis.
waste disposal; agriculture; water pollution; soil pollution; sanitary engineering; ecology, animal; ecology, microorganisms; contamination; water supply; public health; irrigation, agriculture; crops; fertilizers

EF-00530 KAISER, ELMER R., Col. Eng., New York Univ., N.Y.C.
air pollution; combustion exhausts; gases; incinerator; waste disposal; waste treatment

EF-00541 BERRY, EDWARD C., Sch. Agr., South Dakota State Col., Brookings, S.D.
waste treatment; waste disposal; water pollution; feces; microorganisms; genetic strains

EF-00551 FREY, CARL A., Col. Arts, Sci., Ohio Univ., Athens, Ohio
food sanitation; bacteria; food contamination; heat

EF-00558 LISTON, JOHN, Col. Fisheries, Univ. Washington, Seattle, Wash.
seafood; food preservation; growth, microorganisms; bacteria; food poisoning; cold; population dynamics, microorganisms

EF-00579 SILVERMAN, LESLIE, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
waste disposal; radioactive wastes; public health; sanitary engineering; instrumentation-methodology; laboratory facilities; incinerators, domestic

EF-00710 PURDOM, P.W., Col. Eng., Sci., Drexel Inst. Technology, Philadelphia, Pa.
incinerators; waste disposal; sanitary engineering; air pollution; socioenvironment..urban areas; insects control; rodents

EF-00717 GEMMELL, ROBERT S., Northwestern Univ., Evanston, Ill.
water treatment; waste treatment; sanitary engineering; coagulation; mathematical models

EF-00735 SILVERMAN, LESLIE, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
waste disposal; incinerators; air pollution; water pollution; public health; air flow (meteorology); marine biology; toxicology; air sampling; mathematical models; computer programming; sea water; ecology, plants; ecology, animal

EF-00746 HOFFMAN, DONALD A., Chollas Operations Station, San Diego, Cal.
waste disposal; heat; gases; instrumentation-methodology

(contd)

LISTING OF GENERAL RESEARCH AREAS

ENVIRONMENTAL SCIENCES AND ENGINEERING (CONTD)

ES-00002 **WHITTENBERGER, JAMES L., Harvard Sch. Pub. Hlth., Boston, Mass.**
research programs; environmental health; radiation hazards; radiation protection; air pollution; toxicology; occupational hazards; longitudinal study; performance; fatigue; smoking; exercise; aging; epidemiology

ES-00012 **DILLON, ROBERT M., National Academy of Sciences, Washington, D. C.**
conferences; sanitary engineering; soil; freezing; travel; criteria

ES-00112 **STEPHENS, B.G., Wofford Col., Spartanburg, S.C.**
air pollution; sulfur dioxide; phenanthrolines; instrumentation--methodology

GM-09695 **ESTES, FRANCES L., Sch. Med., Univ. Texas, Galveston, Tex.**
enzyme inhibitors; hydrogen; hydroxamic acid; nitroethane; nitrogen compounds; 2-nitropropane; oxidases.. succinate oxidase; oxidative phosphorylation

OH-00007 **NEVINS, RALPH G., Kansas State Univ., Manhattan, Kansas**
temperature; environment; pleasure-displeasure; aging; body temperature; skin; blood flow

OH-00051 **SCHUMAN, LEONARD M., Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.**
poisoning; silage; gases; nitrogen oxides; pulmonary fibrosis; pulmonary edema; epidemiology; occupational hazards; farmers; survey

OH-00055 **ELKINS, HERVEY B., Massachusetts Dept. Labor, Industries, Boston, Mass.**
benzene; occupational hazards; industrial medicine; diagnostic tests; survey; urine; lead; phenols; petroleum ethers; air pollution

OH-00061 **GOLDWATER, LEONARD J., Sch. Pub. Hlth., Admin. Med., Columbia Univ., N.Y.C.**
mercury; mercury poisoning

OH-00067 **FERRIS, BENJAMIN G., Jr., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.**
age; air pollution; epidemiology; occupations; pulmonary function; respiratory diseases; sex difference; smoking

OH-00094 **PENNEY, GAYLORD W., Carnegie Inst., Pittsburgh, Pa.**
occupational hazards; dust; electrical fields; instrumentation; adhesion; precipitation

OH-00100 **FRANK, NEDD R., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.**
air pollution; aerosols; pulmonary function; radioautography; sulfur dioxide

OH-00130 **ORR, CLYDE, JR., Georgia Inst. Tech., Atlanta, Ga.**
air pollution; mathematical models; computer analysis; aerosols

OH-00144 **SUGGS, CHARLES W., Sch. Agr., North Carolina State Col., Raleigh, N.C.**
air flow (meterology); attitudes; climate..humidity; criteria; dust; environment; industry; noise; occupations; performance; social psychology; temperature

OH-00173 **ZENZ, CARL, St. Luke's Hosp., Milwaukee, Wis.**
vanadium; irritants; dust; occupational hazards; toxicology; hypersensitivity; respiratory diseases; diagnostic tests; pulmonary function; air pollution

RH-00061 **GOLDBLITH, SAMUEL A., Mass. Inst. Tech., Cambridge, Mass.**
sanitation; ionizing radiation; radiation effects; naphthalenes; chlorides; ionization; peroxides; microorganisms

RH-00077 **SIGLER, WILLIAM F., Grad. Sch., Utah State Univ., Logan, Utah**
radioisotopes..radium; radioactive wastes; water pollution; algae; fish; seasonal variation

RH-00117 **PLUMMER, GAYTHER L., Grad. Sch., Univ. Georgia, Athens, Ga.**
radiation fallout; radioisotopes..strontium 90; lichens; moss; soil; water supply; ecology, animal

RH-00183 **LAMMERS, WILLIAM T., Davidson College, Davidson, North Carolina**
radioactive wastes; water pollution; inland fresh waters; colloids; radioisotopes..ruthenium 106; radioisotopes.. cobalt 60; radioisotopes..cesium 137; radioisotopes.. strontium 90

RH-00322 **SHAPIRO, MAURICE A., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.**
heavy metals; radioisotopes; minerals; radiation hazards; alpha particles; beta rays; radioactive wastes; surface properties; adsorption; diffusion; water pollution

RH-00369 **HEMPHILL, LOUIS, Col. Eng., Univ. Missouri, Columbia, Mo.**
radiation effects; radioisotopes..strontium 90; radioisotopes..cesium 137; water quality; water pollution; sedimentation; clays; microorganisms; waste treatment

WP-00005 **COLLINS, RALPH P., Col. Lib. Arts, Sci., Univ. Connecticut, Storrs, Conn.**
algae; fungi..actinomycetes; microorganisms; odors; taste; water pollution

WP-00013 **STUMM, WERNER, Harvard Univ., Cambridge, Mass.**
catalysts; chelation; inland fresh waters; iron; oxidation; sanitary engineering; solubility

WP-00017 **ENGELBRECHT, RICHARD S., Col. Eng., Univ. Illinois, Urbana, Ill.**
iron; sanitary engineering; water supply

WP-00019 **CHARNES, ABRAHAM, Northwestern Univ., Evanston, Ill.**
computer programming; mathematical models; sewage treatment

WP-00023 **FISH, CHARLES J., Sch. Oceanography, Univ. Rhode Island, Kingston, R.I.**
marine biology; water pollution; seafood

WP-00024 **FAIR, GORDON, M., Grad. Sch., Harvard Univ., Cambridge, Mass.**
sanitary engineering; sludge; mathematical models; waste treatment; hydrodynamics; sludge activated

WP-00027 **REES, DON M., Univ. Utah, Salt Lake City, Utah**
industrial wastes; waste treatment

WP-00029 **COWGILL, DAVID M., Lubbock City-Co. Hlth. Dept., Lubbock, Tex.**
cost; insects control; publications..monograph; soil; water supply

WP-00039 **BONNEY, CHARLES H., Sch. Eng., Vanderbilt Univ., Nashville, Tenn.**
sanitary engineering; waste treatment; water pollution

WP-00043 **STUMM, WERNER, Harvard Univ., Cambridge, Mass.**
water supply

WP-00044 **TESTERMAN, MAURICE K., Univ. Arkansas, Fayetteville, Ark.**
electronic recording; hydorgen-ion concentration; instrumentation; monitoring; oxygenation; temperature; water pollution

WP-00047 **ENGELBRECHT, R.S., Sch. Eng., Univ. Illinois, Urbana, Ill.**
ecology, animal; water pollution; water supply; sanitary engineering; nematodes; water treatment

WP-00055 **WALTERS, JAMES V., Col. Eng., Univ. Alabama, University, Ala.**
sanitary engineering; sewage treatment; bacteria.. Escherichia coli; contamination; nematodes; microbial culture; water pollution

WP-00057 **BRUUN, PER, Univ. Florida, Gainesville, Fla.**
liquid flow; coastal waters; fluorescent dyes; soil; sedimentation

WP-00059 **TRAMA, FRANCESCO B., Rutgers Univ., New Brunswick, N.J.**
water pollution; organic compounds; plankton; photosynthesis

WP-00061 **ROHLICH, GERARD A., Univ. Wisconsin, Madison, Wis.**
glucose; growth (microorganism); microbial culture; sanitary engineering; sludge; temperature; waste treatment

WP-00065 **EYE, JOHN D., Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio**
oxidation--reduction; water filters and filtration; biochemical oxygen demand; sanitary engineering

WP-00070 **KIRKHAM, DON, Iowa State Univ. Sci. Tech., Ames, Iowa**
water pollution; water flow; soil

WP-00074 **RAND, MYRTON C., Syracuse Univ., Syracuse, N.Y.**
industrial wastes; oxidation; oxygen; polarography; reaction rates (chemistry); solutions..aqueous solutions; sulfites; water pollution

WP-00075 **GAUDY, ANTHONY F., Jr., Sch. Sanitary Eng., Oklahoma State Univ., Stillwater, Okla.**
sludge; bacteria; radiolabeled carbon; ecology, microorganisms; waste treatment; enzymes

WP-00079 **MARVELL, ELLIOT N., Sch. Sci., Oregon State Univ., Corvallis, Ore.**
industrial wastes; water pollution; toxicology; carcinogens

WP-00081 **BIGGAR, J.W., Univ. California, Davis, Cal.**
water pollution; pesticides; soil; diffusion; adsorption

WP-00082 **SUTTKUS, ROYAL D., Tulane U., New Orleans, La.**
water pollution; inland fresh waters; fish; geographical sites..Gulf Coast; species; coastal waters

WP-00083 **MALINA, JOSEPH F., Jr., Sch. Eng., Univ. Texas, Austin, Texas**
amino acid; anaerobiosis; fermentation; radiolabeled carbon; sewage treatment; sludge; waste disposal; water pollution

WP-00091 **VELZ, CLARENCE J., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.**
water pollution; inland fresh waters; ecology, microorganisms; growth, microorganisms; biochemical oxygen demand; bacteria..Sphaerotilus

WP-00098 **STUMM, WERNER, Harvard Univ., Cambridge, Mass.**
water pollution; colloids; hydrolysis; polymerization; water supply

WP-00099 **RENN, CHARLES E., Sch. Eng., Johns Hopkins Univ., Baltimore, Md.**
sewage treatment; sludge; phosphorus

WP-00100 **SIEBURTH, JOHN M., Univ. Rhode Island, Kingston, R.I.**
water pollution; plankton..phytoplankton; organic compounds; nutrients; antibiotics; seasonal variation; bacteria

WP-00101 **STROSS, RAYMOND G., Grad. Sch., Univ. Maryland, College Park, Md.**
algae; biological control; inland fresh waters; nutrition; toxicology; water pollution

WP-00107 **CASTLE, EMORY N., Sch. Agr., Oregon State Univ., Corvallis, Ore.**
cost; industry; mathematical models; sanitary engineering; socioeconomics; statistics; waste treatment

WP-00111 **THOMAS, HAROLD A., Jr., Sch. Eng., Applied Physics, Harvard Univ., Cambridge, Mass.**
computer programming; inland fresh waters; mathematical models; sanitary engineering; waste treatment; water supply

WP-00125 **WRIGHT, JOHN C., Grad. Sch., Montana State Col., Bozeman, Mont.**
water pollution; inland fresh water; water flow; temperature; ecology, animal; biochemical oxygen demand

WP-00131 OKUN, DANIEL A., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.
electrodes..multilayer membrane electrode; oxygen transport; sanitary engineering; surface active agents; waste treatment

WP-00132 LARSON, T.E., Grad. Sch., Univ. Illinois, Urbana, Ill.
water supply; iron; calcium carbonate

WP-00133 HEUKELEKIAN, HOVAHANESS, Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
microorganisms; organic compounds; sludge; waste treatment

WP-00135 WARREN, CHARLES E., Oregon State Univ., Corvallis, Ore.
hypoxia; industrial wastes; water pollution

WP-00137 PAPPENHAGEN, JAMES M., Kenyon Col., Gambier, Ohio
water pollution; ion; cobalt; sulfates; fluorides; nitrates; selenium; chlorides

WP-00139 BLACK, ALVIN P., Grad. Sch., Univ. Florida, Gainesville, Fla.
polyelectrolytes; water supply

WP-00147 RANDLES, CHESTER I., Ohio State U., Columbus, Ohio
microorganisms; industrial wastes; bacteria..sulfate-reducing bacteria; iron; growth, microorganisms; minerals; waste treatment

WP-00155 BORCHARDT, JACK A., Col. Eng., Univ. Michigan, Ann Arbor, Mich.
sewage treatment; algae

WP-00157 WARREN, CHARLES E., Oregon State Univ., Corvallis, Ore.
ecology (animal); inland fresh waters; nutrients; solar radiation; water pollution

WP-00158 BANDY, ORVILLE L., Univ. So. California, Los Angeles, Cal.
waste disposal; trace elements; water pollution; sea water; metal; protozoa..Foraminifera

WP-00161 LEMLICH, ROBERT, Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio
foam fractionation; industrial wastes; inland fresh waters; water pollution

WP-00183 VILLEMONTE, JAMES R., Col. Eng., Univ. Wisconsin, Madison, Wis.
water pollution; instrumentation--methodology; hydrodynamics; sewage treatment; water treatment

WP-00185 BURGESS, FREDERICK J., Oregon State Univ., Corvallis, Ore.
waste treatment; climate; geographical sites.. United States; instrumentation--methodology

WP-00188 INGOLS, ROBERT S., Georgia Inst. Tech., Atlanta, Ga.
water pollution; organic compounds; sodium pentachlorophenate; bacteria; chemical structure; chlorides; halogenated phenols

WP-00196 MORGAN, PAUL E., Sch. Eng., Iowa State Univ., Ames, Iowa
algae..diatoms; instrumentation; water filters and filtration

WP-00198 SMITH, PAUL H., Grad. Sch., Univ. Florida, Gainesville, Fla.
sludge; bacteria..methane bacteria; oxygen; toxicology; hydrogen; oxidation

WP-00202 DELANEY, JOHN E., Massachusetts Health Res. Inst., Lawrence, Mass.
bacteria..Escherichia coli; water pollution; indoles; tryptophan; temperature; membrane filters

WP-00204 PARKER, PATRICK L., Univ. Texas, Austin, Texas
diurnal variation; marine biology; water pollution

WP-00206 FAUST, SAMUEL D., Grad. Sch., Rutgers, The State Univ., New Brunswick, N.J.
herbicides; pesticides; water pollution; water supply

WP-00207 McGAUHEY, PERCY H., Col. Eng., Univ. California, Berkeley, Cal.
sewage treatment; detergents; water supply

WP-00212 DONDERO, NORMAN C., Grad. Sch., Rutgers, The State Univ., New Brunswick, N.Y.
bacteria..Sphaerotilus; growth, microorganisms..water pollution

WP-00221 DODD, JOHN D., Sch. Sci., Tech., Iowa State Univ., Ames, Iowa
algae..diatoms; ecology, microorganisms; inland fresh waters; nutrients; salts; seasonal variation

WP-00229 BEHN, VAUGHN C., Sch. Civil Eng., Cornell Univ., Ithaca, N.Y.
diffusion; waste treatment; water supply

WP-00234 BEHN, VAUGHN C., Sch. Civil Eng., Cornell Univ., Ithaca, N.Y.
water filters and filtration; waste treatment; sludge; mathematical models

WP-00235 LAMBERT, JACK L., Sch. Arts, Sci., Kansas State Univ., Manhattan, Kans.
water pollution; ammonia

WP-00236 HASLER, ARTHUR D., Sch. Letters and Sci., Univ. Wisconsin, Madison, Wis.
vitamin B12; inland fresh waters; ecology, animal; ecology, microorganisms; plankton, phytoplankton

WP-00240 LaMER, VICTOR K., Columbia Univ., N.Y.C.
aluminum potassium sulfate; coagulation; polymers; sedimentation; silicon dioxide; water filters and filtration

WP-00246 FRANZINI, JOSEPH B., Stanford Univ., Stanford, Cal.
soil; water flow; sanitary engineering; computer analysis; water filters and filtration

WP-00247 CARLSON, DALE A., Univ. Washington, Seattle, Wash.
amino acid; biochemical oxygen demand; nitrates; peptides; proteins; sludge; waste treatment

WP-00248 McKINNEY, ROSS E., Grad. Sch., Univ. Kansas, Lawrence, Kans.
aeration; industrial wastes; sludge

WP-00297 FITZGERALD, GEORGE P., Sch. Eng., Univ. Wisconsin, Madison, Wis.
algae; nutrients; phosphorus; water pollution

WP-00316 BRYAN, EDWARD H., Sch. Eng., Duke Univ., Durham, N.C.
waste treatment; organic compounds; oxygen; biochemical oxygen demand

WP-00317 TAFT, CLARENCE E., Col. Agr., Home Ec., Ohio State Univ. Res. Fdn., Columbus, Ohio
water pollution; algae..diatoms; photosynthesis; geographical sites..Great Lakes region; ecology, microorganisms; taxonomy; inland fresh waters

WP-00320 OLSON, THEODORE A., Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.
bioassay; biochemical oxygen demand; ecology (animal); genetics; indicators; inland fresh waters; water pollution

WP-00321 PARKER, CECIL D., Melbourne Water Sci. Inst., Melbourne, Australia
sewage treatment; water pollution; sludge; hydrogen sulfide; methane; anaerobiosis; biochemical oxygen demand

WP-00323 MARCHELLO, JOSEPH M., Univ. Maryland, College Park, Md.
water supply; water pollution; carbon dioxide transport; water flow; surface properties; oxygen transport; argon; helium

WP-00325 GAUDY, ANTHONY F., Jr., Sch. Civil Eng., Oklahoma State Univ., Stillwater, Okla.
sludge; biochemical oxygen demand; equilibrium constants; oxidation; synthesis; nitrogen; phosphorus; carbon; instrumentation--methodology; stability constants

WP-00326 LAMBERT, JACK L., Grad. Sch., Kansas State Univ., Manhattan, Kansas
water pollution; fluorides; chelating agents; ion exchange resins

WP-00328 KRENKEL, PETER A., Sch. Eng., Vanderbilt Univ., Nashville, Tenn.
water pollution; inland fresh waters; waste disposal; diffusion

WP-00329 BORCHARDT, J.A., Sch. Eng., Univ. Michigan, Ann Arbor, Mich.
water filters and filtration; suspensions (chemistry); algae; calcium carbonate; carbon; pollen; Coulter counter

WP-00333 BORCHARDT, J.A., Sch. Eng., Univ. Michigan, Ann Arbor, Mich.
anaerobiosis; bacteria..methane bacteria; nitrogen compounds; organic compounds; oxidation-reduction; oxygen consumption; potentials; sludge; waste treatment; water pollution

WP-00334 GAUFIN, ARDEN R., Grad. Sch., Univ. Utah, Salt Lake City, Utah
water supply; water pollution; plankton..phytoplankton; odors; taste

WP-00340 SMITH, EDWIN E., Col. Eng., Ohio State Univ. Res. Fdn., Columbus, Ohio
water pollution; industrial wastes; acid; sulfides; sulfates; reaction rats (chemistry)

WP-00341 LOEHR, RAYMOND C., Sch. Eng., Univ. Kansas, Lawrence, Kans.
sewage; aerobiosis; lipids; solubility; sewage treatment; sludge

WP-00346 SKRINDE, ROLF T., Washington Univ., St. Louis, Mo.
detoxication; organic compounds; oxidants; pesticides; water pollution; water supply

WP-00349 COREY, ARTHRU T., Colorado State Univ. Res. Fdn., Fort Collins, Colo.
amorphous solids; hydrodynamics; soil; waste disposal; water pollution

WP-00352 HEATH, MILTON S., Jr., Inst. Govt., Univ. North Carolina, Chapel Hill, N.C.
water supply; socioeconomics; population dynamics, human

WP-00369 BALL, ROBERT C., Michigan State Univ., East Lansing, Mich.
aquatic animals; blood proteins..serum proteins; ecology, animal; inland fresh waters; water pollution

WP-00371 LEE, G. FRED, Univ. Wisconsin, Madison, Wis.
organic compounds; inland fresh waters; bioassay; instrumentation--methodology; geographical sites.. Wisconsin

WP-00373 KLEHR, EDWIN H., Univ. Oklahoma Res. Inst., Norman, Okla.
ion exchange resins; radiation fallout; sanitary engineering; trace elements; water quality; water supply

WP-00378 MORRIS, ROBERT L., State Univ. Iowa, Iowa City, Iowa
water supply; water pollution; taste; odors; fungi.. actinomycetes; biochemical oxygen demand

WP-00379 CAMPBELL, ROBERT S., Grad. Sch., Univ. Missouri, Columbia, Mo.
acid; ecology (animal); ecology (plants); industrial wastes; inland fresh water; minerals

WP-00382 O'MELIA, CHARLES R., Georgia Inst. Tech., Atlanta, Ga.
gels; iron; potentials..zeta potential; water filters and filtration; water flow; water pollution

WP-00387 SPROUL, OTIS J., Univ. Maine, Orono, Me.
water treatment; viricides; water supply; coagulation; ion exchange; ion..cation; sulfates; chlorides; bicarbonates

(contd)

ENVIRONMENTAL SCIENCES AND ENGINEERING (CONTD)

WP-00394 SPEECE, RICHARD E., Col. Eng., Univ. Illinois, Urbana, Illinois
acetates; bacteria..methanebacteria; catalysts; chemical structure--biological activity; fermentation; methane; microbialculture; organic compounds; radiolabeled; waste treatment

WP-00399 GRIM, RALPH E., Grad. Sch., Univ. Illinois, Urbana, Ill.
water pollution; radioactive wastes; clays; minerals; silicates; molecular structure; cesium; x-ray diffraction; soil; adsorption

WP-00400 IDYLL, C.P., Univ. Miami, Coral Gables, Fla.
coastal waters; ecology (animal); ecology (plants); geographical sites..Florida; inland fresh waters; seasonal variation; water conservation; water supply

WP-00422 DUGDALE, RICHARD C., Sch. Natural Sci., Univ. Alaska, College, Alaska
algae; ammonia; denitrification; growth factors; inland fresh waters; isotope dilution (concentration) techniques; nitrification; nitrogen balance; photosynthesis; stable isotope labeled nitrogen; water pollution

WP-00423 HALL, JAMES D., Oregon State Univ., Corvallis, Ore.
water pollution; inland fresh waters; water flow; ecology, animal; ecology, plants; solar radiation; temperature; sedimentation

WP-00424 LOVELL, HAROLD L., Col. Mineral Industries, Pennsylvania State Univ., University Park, Pa.
water pollution; sewage treatment; nitrates; phosphates; benzene sulfonates; instrumentation-methodology; computer analysis; surface active agents

WP-00428 BROOKS, NORMAN H., California Inst. Tech., Pasadena, Cal.
water supply; water flow; water quality

WP-00443 MORITA, RICHARD Y., Sch. Sci., Oregon State Univ., Corvallis, Oregon
bacteria..Beggiatoa; carbon dioxide fixation; sulfur compounds; enzymes; oxidation; microbial culture; taxonomy

WP-00444 GEYER, JOHN C., Sch. Eng., Johns Hopkins Univ., Baltimore, Md.
water supply; coastal waters; geophysics; gravity; hydrodynamics; instrumentation--methodology; radiation counters; neutrons; gamma rays

WP-00447 EVANS, RALPH L., Univ. Illinois, Urbana, Ill.
water pollution; water filters and filtration; water supply; instrumentation--methodology

WP-00450 CARVER, CHARLES E., Jr., Sch. Eng., Univ. Massachusetts, Amherst, Mass.
aerosols; instrumentation-methodology; molecular films; oxygenation; sanitary engineering; sewage treatment; water

WP-00467 LAUDERDALE, ROBERT A., Col. Eng., Univ. Kentucky, Lexington, Ky.
pesticides; radiolabeled carbon; waste treatment; water pollution; water supply

WP-00473 SHAPIRO, MAURICE A., Grad. Sch., Univ. Pittsburgh, Pittsburgh, Pa.
water supply; water filters and filtration; ion exchange resins; carbon; organic compounds; solvents; dioxane; pyridine

WP-00475 PATRICK, RUTH, Academy of Natural Sciences, Philadelphia, Pa.
water pollution; industrial wastes; inland fresh waters; algae..diatoms; ecology, plants; nitrates; cyanides; temperature; hydrogen--ion concentration; ammonium; copper

WP-00477 FREED, VIRGIL H., Oregon State Univ., Corvallis, Ore.
herbicides; plants; molecular structure; absorption; water pollution; diffusion

WP-00502 HAYNE, DON W., North Carolina State Col., Raleigh, N.C.
water pollution; inland fresh waters; statistics; water flow; ecology (plants); population dynamics (animal); geographical sites..Michigan

WP-00510 BERG, LLOYD, Montana State Col., Bozeman, Mont.
water pollution; waste disposal; air pollution; hydrogenation; sulfur compounds; terpenes

WP-00512 NECE, RONALD E., Col. Eng., Univ. Washington, Seattle, Wash.
diffusion; hydrodynamics; sanitary engineering; sea water; sewage; water flow

WP-00524 BURGESS, FREDERICK J., Sch. Eng., Oregon State Univ., Corvallis, Ore.
sanitary engineering; water pollution; waste disposal; industrial wastes; coastal waters; biochemical oxygen demand; toxicology; marine biology

WP-00525 CUMMINS, KENNETH WILLIAM, Sch. Natural Sci., Univ. Pittsburgh, Pittsburgh, Pa.
ecology (animal); inland fresh waters; nutrients; population dynamics (animal); water pollution

WP-00526 McPHERSON, MURRAY B., Col. Eng., Univ. Illinois, Urbana, Ill.
water supply; criteria; computer analysis; mathematical models

WP-00530 NORDLIE, FRANK G., Col. Arts, Sci., Univ. Florida, Gainesville, Fla.
inland fresh waters; plankton; ecology (plants); ecology (animal); geographical sites..Florida; solutions; calcium carbonate; climate; seasonal variation

WP-00533 SMITH, GEORGE E., Univ. Missouri, Columbia, Mo.
bacteria; fertilizers; geophysics; nitrates; nitrites; poisoning; radiolabeled nitrogen; soil; water supply

WP-00535 WECKEL, KENNETH G., Col. Agr., Univ. Wisconsin, Madison, Wis.
sanitary engineering; waste disposal; industrial waste; food processing-water pollution; water supply; water flow

WP-00544 KAUFMAN, WARREN J., Col. Eng., Univ. California, Berkeley, Cal.
sanitary engineering; water filters and filtration; sewage treatment; water supply; ion exchange and transport; salts

WP-00558 CHRISTMAN, RUSSELL F., Col. Eng., Univ. Washington, Seattle, Wash.
acid; aluminum; aromatic acids; chemical structure; chromophores; coagulation; colloids; hydrogen-ion concentration; hydrolysis; iron; lignin; organic compounds; oxidation; water supply

WP-00562 ZIEMINSKI, STEFAN A., Col. Technology, Univ. Maine, Orono, Me.
diffusion; oxygen transport; aeration; water treatment; solutes; organic compounds; surface active agents

WP-00563 WEISS, CHARLES M., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.
water supply; water quality; organic compounds; inland fresh waters; water sampling; seasonal variation

WP-00566 MANCY, KHALIL H., Sch. Sanitary Eng., Univ. Cincinnati, Cincinnati, Ohio
instrumentation-methodology; oxygen tension; water, ground; water pollution; water supply

WP-00569 LAMB, JAMES C., III, Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.
waste treatment; instrumentation--methodology; sludge; criteria; sanitary engineering; biomathematics; computer analysis

WP-00575 LI, WEN-HSIUNG, Col. Eng., Syracuse Univ., Syracuse, N.Y.
mathematical models; sanitary engineering; water, ground; water filters and filtration; water flow; water pollution

WP-00577 JERIS, JOHN S., Sch. Eng., Manhattan Col., New York, N.Y.
anaerobiosis; sludge; sewage treatment; organic compounds; propionic acid; radiolabeled carbon; methane; fermentation

WP-00584 McCARTY, PERRY L., Sch. Civil Eng., Stanford Univ., Stanford, Cal.
anaerobiosis; waste treatment; bacteria; methane; fermentation; sanitary engineering; sludge

WP-00588 PIPES, WESLEY O., Northwestern Univ., Evanston, Ill.
bacteria..Sphaerotilus; ecology, microorganisms; biological control; growth, microorganisms; sludge; cell aggregation; waste treatment

WP-00595 DAVIS, MILTON W., Jr., Col. Eng., Univ. South Carolina, Columbia, S.C.
waste treatment; industrial wastes; ion exchange and transport; chlorides; ions..anion..ions..cation; ion exchange resins

WP-00597 McGAUKEY, PERCY H., Col. Eng., Univ. California, Richmond, Cal.
computer analysis; mathematical models; socioeconomics; waste treatment; water pollution; water quality; water supply

WP-00601 QUINN, JOHN A., Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
diffusion; liquid state, chemistry; molecular films.. monomolecular films; reaction rates, chemistry; sanitary engineering; surface active agents

WP-00604 SCHLICHTING, HAROLD E., Jr., North Texas State Univ., Denton, Tex.
algae; plankton..phytoplankton; water pollution; criteria; population dynamics, cell; geographical sites..Canada; inland fresh waters; geographical sites..Oklahoma

WP-00605 LIGGETT, JAMES A., Sch. Civil Eng., Cornell Univ., Ithaca, N.Y.
water supply; water flow; viscosity; particle size; water treatment; sedimentation

WP-00611 SMITH, ROSS W., South Dakota Sch. Mines and Tech., Rapid City, S.D.
adsorption; minerals; surface active agents; detergents; benzene sulfonates; hydrogen--ion concentration; ions; water pollution; water supply; water, ground; heavy metals; sulfates

WP-00615 PROPHET, CARL W., Kansas State Teachers Col., Emporia, Kans.
inland fresh waters; water supply; plankton..phytoplankton; chlorophyll; photosynthesis; oxygen; seasonal variation; bioassay; population dynamics, animal; geographical sites ..Kansas

WP-00620 BRUINS, PAUL F., Polytechnic Inst. Brooklyn, Brooklyn, N.Y.
water filters and filtration; instrumentation-methodology; waste treatment; membrane permeability ant transport; ion exchange and transport; membrane filters; solutions..multicomponent solutions; ultrafiltration

WP-00621 STUMM, WERNER, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
sanitary engineering; waste treatment; growth (microorganisms) enzymes substrate; microbial culture; carbohydrates; enzymes

WP-00622 ANDREWS, JOHN F., Sch. Eng., Clemson Col., Clemson, S.C.
growth, microorganisms; bacteria..methane bacteria; fermentation; methane; propionic acid; microbial culture; culture media; sewage treatment; anaerobiosis

WP-00624 HINDLIN, ERVIN, Washington State Univ., Pullman, Wash.
water treatment; water supply; water filters and filtration; water quality; osmotic pressure

WP-00625 BOND, CARL E., Grad. Sch., Oregon State Univ., Corvallis, Ore.
water pollution; inland fresh waters; ecology, animal; algae..blue-green algae; toxicology; seasonal variation; species; food quality; plankton

WP-00626 THOMAS, HAROLD A., Jr., Harvard Sch. Pub. Hlth., Boston, Mass.
soil pollution; pesticides; fertilizers; detergents; diffusion; water filters and filtration; hydrodynamics; sanitary engineering; industrial wastes; water pollution; water, ground

WP-00627 McCARTHY, JOSEPH L., Grad Sch., Univ. Washington, Seattle, Wash.
lignin sulfonate; water pollution; industrial wastes; instrumentation-methodology; gas chromatography

WP-00628 McCARTHY, JOSEPH L., Grad. Sch., Univ. Washington, Seattle, Wash.
lignin sulfonate; molecular weight; molecular structure; fractionation; instrumentation--methodology; metal complexes; chemical structure--biological activity

WP-00631 CLARK, JOHN W., Col. Eng., New Mexico State Univ., University Park, N. Mex.
water pollution; sewage; sanitary engineering; industrial wastes; biochemical oxygen demand; instrumentation--methodology; growth, microorganisms; mathematical models; statistics

WP-00638 AITKEN, THOMAS W., Sewage Treatment Lab., Concord, Cal. taxonomy; algae; sewage treatment; ecology (microorganisms); microbial culture; oxygenation

WP-00640 ENGELBRECHT, RICHARD S., Col. Eng., Univ. Illinois, Urbana, Ill.
waste treatment; sludge activated; growth (microorganisms); lipids; proteins; carbohydrates; microbial culture; nutrients; phosphorylation; radiolabeled carbon; radiolabeled phosphorus

WP-00642 DEVAN, DONALD E., Col. Fisheries, Univ. Washington, Seattle, Wash.
ecology, animal; water quality; population dynamics, animal; water pollution; industrial wastes; diffusion; coastal waters; mathematical models; travel; computer analysis; seafood; geographical sites..United States

WP-00645 DONDERO, NORMAN C., Rutgers Univ., New Brunswick, N.J.
aromatic compounds; auxotrophs; bacteria; bacteria.. Pseudomonas fluorescence; enzymes; growth (microorganisms); microbial culture; sewage; sludge activated; water supply

WP-00646 PFEFFER, JOHN T., Environmental Hlth. Res. Lab., Univ. Kansas, Lawrence, Kans.
growth, microorganisms; nutrients; trace elements; fungi.. actinomycetes; microbial culture; sewage treatment; sludge activated

WP-00647 BRANDT, WARREN W., Virginia Polytechnic Inst., Blacksburg, Va.
detergents; heat; water pollution; bioassay; gas chromatography; instrumentation--methodology

WP-00649 SELLECK, ROBERT E., Col. Eng., Univ. California, Berkeley, Cal.
computer analysis; computer programming; water sampling; water pollution; seasonal variation; mathematical models; geographical sites.. California

WP-00650 JONES, GALEN E., Grad. Sch., Boston Univ., Boston, Mass.
bacteria; chemical structure--biological activity; growth (microorganisms); growth inhibitors; heterotrophy; marine biology; organometallic compounds; sea water

WP-00651 NELSON, BRUCE W., Univ. South Carolina, Columbia, S.C.
water pollution; organic compounds, gas tensions; surface properties; diffusion; coastal waters

WP-00652 HIMMELBLAU, DAVID M., Col. Eng., Univ. Texas, Austin, Tex.
sanitary engineering; water supply; evaporation; molecular films..monomolecular films; gases; diffusion; toxicology

WP-00662 MEHR, EMANUEL, New York Univ., New York, N.Y.
water pollution; waste disposal; dyes; diffusion; computer analysis; computer programming; mathematical models; sea water; photography

WP-00666 PHINNEY, HARRY K., Oregon State Univ., Corvallis, Ore.
ecology, plants; algae..blue--green algae; plankton..phytoplankton; species; growth factors; culture media; nutrients; inland fresh waters

WP-00668 STAHL, JOHN B., Washington State Univ., Pullman, Wash.
inland fresh waters; organic compounds; sedimentation; feces; feeding behavior; respiration; carotenoids; lignin; oxygen; temperature; population dynamics, animal

WP-00671 WISE, DONALD L., Pennsylvania Military Col., Chester, Pa.
waste treatment; gases; solubility..water soluble; solutions..aqueous solutions; diffusion;

WP-00672 McINTOSH, THOMAS H., Col. Agric., Univ. Arizona, Tucson, Arizona
water, ground; water supply; liquid flow; sewage; soil; chemical structure--biological activity; soilborne microbes; metabolites; instrumentation-methodology

WP-00677 O'CONNOR, DONALD J., Sch. Eng., Manhattan Col., N.Y.C.
water pollution; coastal waters; mathematical models; industrial wastes; water quality

WP-00678 PUTNAM, HUGH D., Col. Eng., Univ. Fla., Gainesville, Fla.
ecology, plants; coastal waters; plankton, phytoplankton; aquatic plants; radiolabeled carbon; oxygen consumption; waste disposal; sewage; nutrients

WP-00679 MORRISON, S.M., Col. Vet. Med., Colorado State Univ., Fort Collins, Colorado
population dynamics, microorganisms; water supply; bacteria..entero-bacteria; bioassay; seasonal variation; geographical sites..Colorado; inland fresh waters

WP-00680 BROOKS, NORMAN H., California Inst. Technology, Pasadena, Cal.
water flow; water supply; water, ground

WP-00684 SEADERS, JOHN, Oregon State Univ., Corvallis, Ore.
water flow; temperature; solar radiation; evaporation; inland fresh waters

WP-00688 GLOYNA, EARNEST F., Col. Eng., Univ. Texas, Austin, Tex.
waste treatment; sanitary engineering; industrial wastes; toxicology; organic compounds; chemical structure--biological activity; algae; microorganisms

WP-00689 VELZ, C.J., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.
sanitary engineering; water supply; seasonal variation; inland fresh waters; oxygenation; water quality; computer analysis

WP-00690 MOLOF, ALAN, Sch. Eng., Sci., New York Univ., New York, N.Y.
ion..cation; waste treatment; anaerobiosis; bacteria; sanitary engineering; organic compounds; toxicology; sodium; potassium; calcium; magnesium; ammonia

WP-00692 FUERSTENAU, DOUGLAS W., Col. Eng., Univ. California, Berkeley, Cal.
adsorption; surface active agents; sulfonates; aluminum oxide; water; soil; detergents; water pollution

WP-00693 EYE, J. DAVID, Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio
aeration; sewage treatment; sanitary engineering; criteria

WP-00695 SMITH, H. SIDWELL, Col. Eng., State Univ. Iowa, Iowa City, Iowa
sanitary engineering; sewage treatment; sludge activated; oxygen consumption; mathematical models; prediction; instrumentation--methodology

WP-00697 NORTH, WHEELER J., California Inst. Technology, Pasadena, Cal.
water pollution; sewage; sea water; coastal waters; nutrients; bioassay; ecology, animal

WP-00699 WEN, C.Y., Col. Eng., West Virginia Univ., Morgantown, W. Va.
water pollution; industrial wastes; liquid state (chemistry); solid state (chemistry); reaction rates (chemistry)

WP-00702 GRIEVES, ROBERT B., Illinois Inst. Tech., Chicago, Ill.
foam fractionation; colloids; particle size; instrumentation--methodology; surface active agents; solutions..aqueous solutions; organic compounds; industrial wastes

WP-00706 WEBER, WALTER J., Jr., Col. Eng., Univ. Michigan, Ann Arbor, Mich.
adsorption; solutions..aqueous solutions; water treatment; sanitary engineering; organic compounds; water pollution; carbon; pesticides; surface active agents; detergents; industrial wastes

WP-00709 WOOD, EDWARD J.F., Inst. Marine Sci., Miami, Fla.
plankton..phytoplankton; ecology, microorganisms; ecology, plants; carbon dioxide fixation; calcium carbonate; sedimentation; coastal waters; geographical sites.. United States; marine biology

WP-00711 HARLEMAN, DONALD R.F., Massachusetts Inst. Technology, Cambridge, Mass.
water flow; water pollution; water filters and filtration; biomathematics; diffusion; instrumentation--methodology

WP-00717 SINGLEY, JOHN E., Col. Arts, Sci., Georgia State Col., Atlanta, Ga.
coagulation; stoichiometry; iron; aluminum; ligands; ions; thermometric titrations; stability constants

WP-00719 TIEN, CHI, Col. Eng., Syracuse Univ., Syracuse, N.Y.
aeration; hydrodynamics; polymers; gases; mathematical models; diffusion

WP-00720 SCOTT, DAVID R., Col. Forestry, Univ. Washington, Seattle, Wash.
ecology, plants; altitude; environment; water, ground; water, rain; photosynthesis; instrumentation--methodology; water supply

WP-00727 MAY, DONALD S., Washington State Univ., Pullman, Wash.
ecology, microorganisms; bacteria..Chromatium; growth, microorganisms; photosynthesis; temperature; oxygen consumption; odors; sewage treatment; anaerobiosis; sulfur compounds; microbial culture; hydrogen sulfide

LISTING OF GENERAL RESEARCH AREAS

ENVIRONMENTAL SCIENCES AND ENGINEERING (CONTD)

WP-00729 BARDUHN, ALLEN J., Col. Eng., Syracuse Univ., Syracuse, N.Y.
water rejuvenation; water treatment; sewage; organic compounds; salts; freezing; solubility

WP-00732 MORGAN, JAMES J., Col. Eng., Univ. Florida, Gainesville, Fla.
water supply; manganese; iron; solutions..aqueous solutions; oxidation--reduction; ligands; metal complexes; colloids; ions

WP-00740 McDONALD, DONALD B., Col. Eng., State Univ Iowa, Iowa City, Iowa
actinomycetes; population dynamics, microorganisms; growth, microorganisms; microbial culture; inland fresh waters; geographical sites..Iowa

WP-00742 FARRELL, JOSEPH P., Sch. Eng., Manhattan Col., Bronx, N.Y.
water pollution; waste treatment; industrial wastes; electrodialysis; chromium trioxide; ion exchange and transport; waste disposal

WP-00743 GESSEL, STANLEY P., Col. Forestry, Univ. Washington, Seattle, Wash.
ecology, plants; water supply; water quality; environment; soil; chemical structure; ion exchange and transport; plants; pesticides; instrumentation--methodology

WP-00744 MARTELL, ARTHUR E., Grad. Sch., Illinois Inst. Technology, Chicago, Ill.
phenols; aromatic amines; oxidation; solution.. aqueous solutions; manganese; oxygen; water supply

WP-00755 CONOVER, JOHN T., Grad. Sch. Oceanography, Univ. Rhode Island, Kingston, R.I.
marine biology; aquatic plants; population dynamics, plants; industrial wastes; sewage; instrumentation--methodology; bioassay; geographical sites..Rhode Island; seasonal variation; water pollution; coastal waters

WP-00757 SMERDON, ERNEST T., Water Resources Inst., Texas A and M Univ., College Station, Tex.
water pollution; soil conservation; hydrodynamics; water supply; inland fresh waters; water, rain

WP-00760 KIRSCH, EDWIN J., Sch. Civil Eng., Purdue Univ., Lafayette, Ind.
waste treatment; sanitary engineering; microbial culture; aerobiosis; anerobiosis; bacteria..methane bacteria; bacteria..Zoogloea ramigera; symbiosis

WP-00764 McGAUHEY, PERCY H., Col. Eng., Univ. California, Richmond, Cal.
water conservation; water quality; sewage; soil; publications..literature survey; water treatment

WP-00771 SHAPIRO, JOSEPH, Univ. Minnesota, Minneapolis, Minn.
water pollution; inland fresh waters; organic compounds; algae; iron

WP-00772 BRUSH, LUCIEN M., Jr., Sch. Eng., Applied Sci., Princeton Univ., Princeton, N.J.
water flow; diffusion; sedimentation; particle size; instrumentation--methodology; mathematical models

WP-00782 JACKSON, DANIEL F., Col. Eng., Syracuse Univ., Syracuse, N.Y.
algae..Cladophora; genetic strains; nutrition; nitrates; phosphates; photosynthesis; respiration; population dynamics, plants; seasonal variation; water pollution; cell culture; environment

WP-00783 BIER, MILAN, Col. Agr., Univ. Arizona, Tucson, Ariz.
water treatment; waste treatment; electrophoresis; colloids

WP-00785 SILVEY, JOSEPH K., Col. Arts, Sci., North Texas State Univ., Denton, Tex.
water supply; water quality; taste; odors; growth, microorganisms; actinomycetes; algae..blue--green algae; bacteria..gram--negative bacteria; bacteria..gram--positive bacteria; microbial culture; ionization detectors

WP-00786 GAUDY, ANTHONY F., Jr., Sch. Civil Eng., Oklahoma State Univ., Stillwater, Okla.
bacteria..Escherichia coli; enzyme substrate; biological control; sewage treatment

WP-00787 JENKINS, DAVID, Col. Eng., Univ. California, Berkeley, Cal.
sewage treatment; sludge activated; mathematical models; instrumentation--methodology; sanitary engineering; criteria

WP-00788 WEST, PHILIP W., Col. Chem., Physics, Louisiana State Univ., Baton Rouge, La.
trace elements; silver; water supply; water quality; water sampling; adsorption; diphenylthiocarbazone

WP-00791 JELLINEK, H.H.G., Clarkson Col. Tech., Potsdam, N.Y.
polymers; photosensitivity; ultraviolet rays; solutions..aqueous solutions; reaction rates (chemistry); molecular structure; hydrogen--ion concentration; oxygenation; electrolytes; chemical bonds..bond cleavage, mechanical

WP-00792 DURHAM, LEONARD, Eastern Illinois Univ., Charleston, Ill.
water pollution; inland fresh waters; cyanides; water treatment; population dynamics, animal; population dynamics, plants; aquatic animals; aquatic plants; bioassay; geographical sites..Illinois; plankton..phytoplankton

WP-00796 ANDERSON, ALVIN G., St. Anthony Falls Hydraulic Lab., Univ. Minnesota, Minneapolis, Minn.
water flow; water, ground; water pollution; water filters and filtration; diffusion; soil; mathematical models

WP-00801 EWING, BEN B., Col. Eng., Univ. Illinois, Urbana, Ill.
water treatment; coagulation; soil; adsorption; organic compounds; electrolytes; ion exchange and transport; radiolabeled carbon; potentials; hydrogen--ion concentration

WP-00812 McLAUGHLIN, RONALD T., Sch. Eng., Massachusetts Inst. Technology, Cambridge, Mass.
sewage; water flow; mathematical models; computer analysis; land planning and development

WP-00814 LEMLICH, ROBERT, Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio
foam fractionation; water filters and filtration; instrumentation--methodology; adsorption; water treatment; water pollution; water supply

WP-00815 MATIJEVIC, EGON, Clarkson Col. Tech., Potsdam, N.Y.
colloids; water; suspensions (chemistry); chelating agents; polymers; polyelectrolytes; water treatment; coagulation

WP-00823 SCHROEDER, HERBERT A., Oregon State Univ., Corvallis, Ore.
lignin sulfonate; industrial wastes; solvents fractionation; water pollution; inland fresh waters; toxicology; synthesis

WP-00830 PEARSON, ERMAN A., Col. Eng., Univ. California, Berkeley, Cal.
anaerobiosis; fermentation; waste treatment; industrial wastes; nutrients; microbial culture; biological control; bacteria..methane bacteria

WP-00834 BRATER, ERNEST F., Col. Eng., Univ. Michigan, Ann Arbor, Mich.
water..rain; climate; land planning and development; water treatment; prediction; socioenvironment..rural areas; socioenvironment..urban areas

WP-00845 MORGAN, JAMES J., Col. Eng., Univ. Florida, Gainesville, Fla.
water treatment; clays; colloids; polymers; adsorption

WP-00850 TRAINOR, FRANCIS R., Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.
algae..Scenedesmus; genetic strains; pleomorphism (biology); ecology..plants; inland fresh waters; nutrients; taxonomy

WP-00853 BROWN, LEE F., Col. Eng., Univ. Colorado, Boulder, Colo.
carbon; adsorption; surface properties

WP-00854 SPARKS, ROBERT E., Case Inst. Tech., Cleveland, Ohio
industrial wastes; petroleum oils; water; emulsions; coalescence; surface properties; adsorption; hydrodynamics; instrumentation--methodology; water pollution

WP-00857 BLUM, JOHN L., Col. Letters, Sci., Univ. Wisconsin, Milwaukee, Wis.
water pollution; toxins; immunity; phenols; ammonia; cyanides; microbial culture; growth, microorganisms; ecology, microorganisms; environment; algae.. Scenedesmus; genetic strains

WP-00871 FISHER, GERALD T., Sch. Eng., Vanderbilt Univ., Nashville, Tenn.
oxidation; benzene; solutions..aqueous solutions; aeration; mathematical models; reaction rates (chemistry)

WP-00914 WARD, JOHN C., Col. Eng., Colorado State Univ., Fort Collins, Colo.
water filters and filtration; water flow; sanitary engineering; water pollution

EPIDEMIOLOGY AND DISEASE CONTROL

AI-03023 TOP, FRANKLIN H., State Univ. Iowa, Iowa City, Iowa
toxoplasmosis; zoonoses

AM-09052 JACKSON, W.P.U., Univ. Cape Town Med. Sch., Observatory, C.P., South Africa
diabetes; family..parents; siblings; geographical sites ..Africa; ethnic groups..Natal Indians; diagnostic tests; genetics..genes; diet; sulfonylurea; radiolabeled carbon; adipose tissue

AM-09128 CHALMERS, THOMAS C., Lemuel Shattuck Hosp., Boston, Mass.
information exchange; liver cirrhosis; longitudinal study; cooperative study; esophageal varices; blood vessel shunts..portacaval shunt; preventive medicine; colon by--pass

CC-00035 BODILY, HOWARD L., California State Dept. Pub. Health, Berkeley, Cal.
immunofluorescence; immunology..antibodies; spirochetes.. Treponema; syphilis; TPI tests (syphilis); serology; diagnostic tests; information exchange

CC-00081 FELTON, FRANCES G., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
cryptococcosis; epidemiology; immunology..antigens; skin tests

CC-00094 NEWELL, KENNETH W., Sch. Med., Tulane Univ., New Orleans, La.
bacteria..Salmonella typhimurium; epidemiology; epizootiology; phage typing; ecology, microorganisms; genetic strains; biological control; geographical sites.. Louisiana; taronomy

CC-00118 FELDMAN, HARRY A., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
respiratory diseases..acute respiratory diseases; family; epidemiology; immunological tests; disease transmission

CC-00128 HIRSCHBERG, NELL, North Carolina Col., Durham, N.C.
immunofluorescence; immunology..antibodies; leptospirosis; serotypes; blood..serum; agglutination reaction (agglutinin); adsorption; diagnostic tests tests

CC-00139 ROSEBURY, THEODOR, Sch. Dent., Washington Univ., St. Louis, Mo.
spirochetes..Treponema pallidum; microbial culture; culture media; anaerobiosis

CD-00002 GELLIS, SYDNEY S., Boston City Hosp., Boston, Mass.
diabetes; pregnancy..perinatal; insulin; carbohydrates; statistics; congenital abnormalities; infant human.. newborn; infant human..premature infant; pregnancy toxemias and hypertension; mortality; glucose tolerance

CD-00118 TAYLOR, HENRY L., Sch. Pub. Health, Univ. Minnesota, Minneapolis, Minn.
travel; consultation; conferences; myocardial ischemia and hypoxia; exercise; interviews

CD-00123 BERRY, HELEN K., Children's Hosp. Res. Fdn., Cincinnati, Ohio
metabolic diseases; phenylketonuria; infant human.. newborn; mental retardation; nervous system disorders; blood..serum; phenylalanine

CD-00151 WANNAMAKER, LEWIS W., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
skin diseases; bacterial diseases; kidney disorders; nephritis; glomerulonephritis; rheumatic fever; streptococcal infections; staphylococcal infections; serotypes; ethnic groups..American Indians; children; epidemiology

HD-00771 DOOLITTLE, DONALD P., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
fertility; mathematical models; biomathematics; genetics

EXPERIMENTAL PSYCHOLOGY

AC-00223 SILVER, CARL A., Franklin Inst., Philadelphia, Pa.
potentials..action potentials; muscles; prediction; performance; automobile accidents; muscle tension; fatigue; psychophysics

AM-02920 WOLFF, B. BERTHOLD, Sch. Med., New York Univ., New York, N.Y.
arthritis; longitudinal study; rehabilitation; patient care; exercise; pain; stress; orthopedics; psychometrics; personality; surgery..postoperative

AP-00215 ADAMS, DONALD F., Washington State Univ., Pullman, Wash.
odors; industrial wastes; sulfur compounds; threshold; discrimination; air pollution; respiratory diseases; smoking; conditioning

DE-02154 GIDDON, DONALD B., Sch. Dent., Tufts Univ., Boston, Mass.
dental disease..gingival disease; stress; instrumentation--methodology; dental structure..gingiva; psychophysiology; electronic recording; blood vessels resistance

GM-06263 ZARROW, MEYER X., Grad. Sch., Purdue Univ., Lafayette, Ind.
immunology..antibodies; maternal behavior; prolactin; sex hormones; vision

GM-07495 McGILL, THOMAS E., Williams Col., Williamstown, Mass.
sex behavior; genetics..inbreeding; gonadectomy; androgens; motivation

GM-10899 GHENT, ARTHUR W., Univ. Illinois, Urbana, Ill.
genetic strains; feeding behavior; discrimination; ecology, animal

GM-11104 BRAYER, A. RICHARD, Sch. Arts, Sci., Univ. Hartford, Hartford, Conn.
game theory; biomathematics; decision-making; statistics

GM-11128 LEE, WAYNE, Col. Letters, Sci., Univ. California, Berkeley, Cal.
statistics; decision-making; stimulus; choice behavior; mathematical models; cognition

GM-11185 STOKES, ALLEN W., Sch. Forestry, Range, Wildlife, Utah State Univ., Logan, Utah
population dynamics, animal; social behavior; sex behavior; aggression; age

GM-11864 McCLUSKEY, ELWOOD S., Sch. Med., Loma Linda Univ., Loma Linda, Cal.
cyclic functions; rhythm; social behavior; social organization; time

GM-12061 HAMNER, KARL C., Univ. California, Los Angeles, Cal.
diurnal variation; photoperiodism; growth; birds; gonads; body movement; neurosecretion

GM-12774 BEER, COLIN G., Col. Arts, Sci., Rutgers Univ., Newark, N.J.
maternal behavior; breeding cycles; sensory mechanisms; stimulus; hormones; gonadectomy; separation; ecology, animal; aggression

HD-00207 HARCUM, EUGENE R., Col. William and Mary, Williamsburg, Va.
visual perception; reading; learning; perception; tachistoscope; eye movement; visual field

HD-00314 FANTZ, ROBERT L., Grad. Sch., Western Reserve Univ., Cleveland, Ohio
attention; discrimination; experience; exploratory behavior; form perception; infants (human)..newborn; learning; longitudinal study; visual fixation

HD-00333 LONG, EUGENE R., Jr., Univ. North Carolina, Chapel Hill, N.C.
reinforcement; children

HD-00334 STERRITT, GRAHAM M., Univ. Colorado Med. Cr., Denver, Colo.
feeding; instrumentation; drive; behavior

HD-00340 TALLAND, GEORGE A., Mass. Gen. Hosp., Boston, Mass.
aging; longitudinal study; performance; visual perception; memory-retention; learning; reaction time; attention

HD-00344 LARSSON, KNUT, Univ. Goteborg, Goteborg, Sweden
sex behavior; brain lesions; electrostimulus; brain..cerebral cortex; brain..rhinencephalon; brain..hypothalamus; brain..reticular formation; depressants

HD-00345 CARR, WILLIAM J., Col. Liberal Arts, Temple Univ., Philadelphia, Pa.
sex behavior; experience; odors; conditioning; gonads

HD-00348 ARONSON, LESTER R., American Museum Natural History, New York, N.Y.
sex behavior; androgens; gonadectomy; experience; age; psychophysiology; sensory deprivation

HD-00356 KLING, ARTHUR, Michael Reese Hosp., Chicago, Ill.
brain lesions; exploratory behavior; learning; discrimination; aggression; growth; sex behavior; infants, animals; fear; emotional reactions; primates monkeys

HD-00357 HULICKA, IRENE M., Veterans Admin. Hosp., Buffalo, N.Y.
age; memory-retention; learning; intelligence tests; tests; learning; memory-retention; personality; reinforcement

HD-00365 SOUTHWICK, CHARLES H., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
behavior; social behavior; maternal behavior; genetic strains; aggression

HD-00369 NEWTON, D. GRANT, Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
exercise; fatigue; age; training; infant animals; adrenal cortex hormones; Walker carcinoma 256; thiamine; dietary deficiency

HD-00694 ELLSON, DOUGLAS G., Grad. Sch., Indiana Univ., Bloomington, Ind.
reading; mental retardation; children; reinforcement; programmed learning

HD-00698 CICALA, GEORGE A., Univ. Delaware, Newark, Del.
conditioning..operant conditioning; discrimination; learning; reinforcement; age; conflict; motivation

HD-00750 BELL, ROBERT W., Col. Arts, Sci., Northern Illinois Univ., DeKalb, Ill.
maternal-fetal; pregnancy; infant animals..newborn; stress; emotional reactions; conditioning.. avoidance; electroshock

HD-00867 GERALL, ARNOLD A., Sch. Arts, Sci., Tulane Univ., New Orleans, La.
hermaphroditism..pseudohermaphroditism; estrogens; androgens; gonadectomy; sex behavior; electrodes; brain.. hypothalamus; blood cells..eosinophil leukocytes; pregnancy..perinatal

HD-00877 GRAY, PHILIP H., Montana State Col., Bozeman, Mont.
imprinting; stimulus; interpersonal behavior; species

HD-00878 GOTTLIEB, GILBERT, North Carolina Fdn. Mental Hlth., Raleigh, N.C.
imprinting; sensory mechanisms; perception; audiostimulus; visual stimulus; maternal behavior; behavior; embryology

HD-00883 JENSEN, GORDON D., Univ. Washington, Seattle, Washington
maternal behavior; family..parent--child; infant animals; primates..monkeys; interpersonal behavior

HD-00893 WHALEN, RICHARD E., Grad. Sch., Univ. California, Los Angeles, Cal.
sex behavior; sex hormones; neurohormones; gonadectomy; age; infants (animals); electrostimulus

HD-00895 MARX, MELVIN H., Sch. Arts, Sci., Univ. Missouri, Columbia, Mo.
frustration; motivation; conditioning..extinction; conditioning..avoidance; children; primates..monkeys

HD-00896 LAUER, DONALD W., Grad. Sch., Indiana Univ., Bloomington, Indiana
mathematical models; conditioning; salivation; potentials.. action potentials; nerves; saliva

HD-00897 LAWRENCE, DOUGLAS H., Grad. Sch., Stanford Univ., Stanford, Cal.
discrimination; learning; reinforcement

HD-00898 MYERS, NANCY A., Grad. Sch., Univ. Massachusetts, Amherst, Mass.
reinforcement; conditioning..operant conditioning; conditioning..extinction; learning; discrimination; mathematical models; children; adults

HD-00900 BARE, JOHN K., Careleton Col., Northfield, Minn.
diurnal variation; hunger; feeding behavior; photostimulus; reinforcement; alertness-vigilance; conditioning

HD-00901 DUNCAN, CARL P., Col. Liberal Arts, Northwestern Univ., Evanston, Ill.
problem solving; insight; learning; response; thinking

HD-00903 THOMAS, DAVID R., Kent State Univ., Kent, Ohio
stimulus generalization; discrimination; conditioning; perception

(contd)

EXPERIMENTAL PSYCHOLOGY (CONTD)

HD-00904 WALKER, EDWARD L., Grad. Sch., Univ. Michigan, Ann Arbor, Mich.
stimulus; arousal; learning; feeding; electroshock; basal resistance level; galvanic skin response; memory--retention; rewards and nonrewards; estrus cycle; verbal behavior

HD-00906 PERKINS, CHARLES C., Jr., Grad. Sch., Emory Univ., Atlanta, Ga.
reinforcement; rewards and nonrewards; electroshock; biomathematics; conditioning

HD-00908 NAKAMURA, CHARLES Y., Grad. Sch., Univ. California, Los Angeles, Cal.
learning; children; motivation; rewards and nonrewards; attitude; family..parents; cognitive dissonance

HD-00909 BROWN, DONALD R., Grad. Sch., Purdue Univ., Lafayette, Ind.
discrimination; form perception; behavior; intelligence; visual stimulus; primates

HD-00910 FOWLER, HARRY, Sch. Natural Sci., Univ. Pittsburgh, Pittsburgh, Pa.
exploratory behavior; motivation; rewards and non-rewards; learning

HD-00912 MANDLER, GEORGE, Univ. Toronto, Toronto, Canada
learning..overlearning; learning..reversal learning; galvanic skin response; emotional reactions; frustration

HD-00915 BERRY, RICHARD N., Indiana Univ., Bloomington, Ind.
galvanic skin response; verbal behavior; performance; learning; memory-retention

HD-00916 WOLFE, JOHN B., Col. Liberal Arts, Univ. Mississippi, University, Miss.
reinforcement; conditioning..extinction; drive

HD-00918 ATKINSON, RICHARD C., Stanford Univ., Stanford, Cal.
discrimination; learning; stimulus; reinforcement; experience; mathematical models

HD-00919 HAYES, KEITH J., Los Angeles County Hosp., Los Angeles, Cal.
experience; drive; intelligence; problem solving

HD-00923 PARDUCCI, ALLEN, Grad. Sch., Univ. California, Los Angeles, Cal.
stimulus; perception; judgment; psychophysics

HD-00924 CLAYTON, KEITH N., Grad. Sch., Vanderbilt Univ., Nashville, Tenn.
discrimination; learning; conditioning..extinction; rewards and nonrewards

HD-00926 BAHRICK, HARRY P., Col. Liberal Arts, Ohio Wesleyan Univ., Delaware, Ohio
learning..association learning; adults

HD-00928 PIERREL, ROSEMARY, Brown Univ., Providence, R.I.
discrimination; stimulus generalization; reinforcement; conditioning; learning; hearing..auditory discrimination

HD-00930 TERRACE, HERBERT S., Columbia Univ., New York, N.Y.
learning; discrimination; reinforcement; psychotropic drugs; error--bias; conditioning..extinction

HD-00932 SEIDEL, ROBERT J., George Washington Univ., Washington, D.C.
learning..association learning; reinforcement; statistics

HD-00933 WINOGRAD, EUGENE, Columbia Univ., New York, N.Y.
discrimination; rewards and nonrewards; conditioning.. extinction; stimulus generalization; electroshock

HD-00935 KALISH, HARRY I., State Univ. New York, Stony Brook, N.Y.
motivation; conflict; stimulus generalization

HD-00936 ARMSTRONG, PHILIP B., Marine Lab., Woods Hole, Mass.
embryology; nervous system; eye..retina; photosensitivity; electron microscopy; electrophysiology; behavior

HD-00937 BECK, ROBERT C., Wake Forest Col., Winston-Salem, N.C.
drive; thirst; performance; rewards and nonrewards

HD-00939 AMMONS, ROBERT B., Montana State Univ., Missoula, Mont.
performance; originality; motivation; attitudes; experience; psychometrics; problem solving; creativity; learning; perception; cognition; behavior

HD-00941 COLLIER, GEORGE H., Sch. Sci., Lit., Arts, Rutgers State Univ., New Brunswick, N.J.
conditioning..operant conditioning; reinforcement; sensory mechanisms; habit; feeding behavior; nutrition

HD-00942 LOCKARD, ROBERT B., Grad. Sch., Univ. Washington, Seattle, Wash.
behavior; photoperiodism; photostimulus; light adaptation; experience; conditioning..operant conditioning; reinforcement; species; diurnal variation

HD-00944 LAWSON, REED, Ohio State Univ. Res. Fdn., Columbus, Ohio
reinforcement; conditioning; deprivation; rewards and nonrewards; behavior; primates..monkeys

HD-00945 JENSEN, GLEN D., Grad. Sch., DePaul Univ., Chicago, Ill.
performance; conditioning; reinforcement; biomathematics; children

HD-00946 PEACOCK, L.J., Grad. Sch., Univ. Georgia, Athens, Ga.
behavior; instrumentation--methodology; ultrasonics; hunger; age; diurnal variation

HD-00947 SPIELBERGER, CHARLES D., Grad. Sch., Vanderbilt Univ., Nashville, Tenn.
conditioning..verbal conditioning; awareness; behavior; reinforcement; cognition; personality; anxiety

HD-00948 RUNQUIST, WILLARD N., Univ. Alberta, Edmonton, Alberta, Canada
conditioning; reflex; eyelids; stimulus; response

HD-00949 CAPALDI, EGIDIO J., Col. Arts, Sci., Univ. Texas, Austin, Texas
reinforcement; conditioning..extinction; learning; rewards and non--rewards

HD-00950 THEIOS, JOHN M., Grad. Sch., Univ. Texas, Austin, Tex.
conditioning..avoidance; performance; mathematical models; learning..reversal learning; eyelids..nictitating membrane; electroshock

HD-00951 OST, JOHN W.P., Col. Arts, Sci., Indiana Univ., Bloomington, Ind.
conditioning; salivation; reinforcement; stimulus

HD-00952 NEWBIGGING, P. LYNN, McMaster Univ., Hamilton, Ontario, Canada
visual perception; learning; cognition; optical illusions; memory--retention; audiostimulus

HD-00953 MANIS, MELVIN, Sch. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
response generalization; reinforcement; learning.. association learning

HD-00954 BOWER, GORDON H., Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.
learning..association learning; psychometrics; mathematical models; prediction; concept

HD-00955 MOORE, JOHN W., Sch. Arts, Sci., Univ. Massachusetts, Amherst, Mass.
conditioning; eyelids; response; audiostimulus

HD-00956 NOBLE, MERRILL E., Grad. Sch., Kansas State Univ., Manhattan, Kansas
conditioning; stimulus; eyelids; respiration; galvanic skin response; body movements; blood vessels resistance

HD-00957 VOSS, JAMES F., Univ. Pittsburgh, Pittsburgh, Pa.
learning..association learning; learning..sequential learning; verbal behavior

HD-00958 RICHTER, MELISSA L., Sarah Lawrence Col., Bronxville, N.Y.
brain..appetite satiety center; brain lesions; drive; electrostimulus; feeding behavior; injections; nutrients

HD-00959 HOVORKA, EDWARD J., State Univ. New York, Buffalo, N.Y.
conditioning; learning; reaction time; computer programming; mathematical models

HD-00972 SCHEIBEL, ARNOLD B., Sch. Med., Univ. California, Los Angeles, Cal.
brain..subcortical structures; nerves..neuroglia; electrophysiology; infant animals..newborn; social behavior; growth; implants; primates

HD-00996 EIMAS, PETER D., Williams Col., Williamstown, Mass.
learning..overlearning; learning..reversal learning; child development; behavior; psychological tests; children

HD-01014 SHAPIRO, SYDELLE S., Austen Riggs Ctr., Stockbridge, Mass.
children; age; learning..association learning; learning..overlearning; learning..reversal learning

HD-01019 WERBOFF, JACK, Jackson Lab., Bar Harbor, Me.
pregnancy; stress; deprivation; fatigue; aggression; behavior; infant animals; maternal--fetal; genetic strains; congenital abnormalities; nervous system disorders

HD-01062 BATTIG, WILLIAM F., Univ. Maryland, College Park, Md.
learning..association learning; learning..sequential learning; mental processes; stimulus generalization; adults

HD-01079 GROSS, CHARLES G., Massachusetts Inst. Technology, Cambridge, Mass.
learning; performance; potentials..slow potentials; brain..cerebral cortex; single cell analysis; brain lesions; primates..monkeys

HD-01082 WERBOFF, JACK, The Jackson Lab., Hamilton Sta., Bar Harbor, Me.
learning; experience; age; training; discrimination; success--failure; emotional reactions; intelligence; genetic strains

HD-01141 CHIPMAN, ROBERT K., Col. Arts, Sci., Univ. Vermont, Burlington, Vt.
fertility; odors; estrus cycle; social space; population dynamics, animal; sex difference; pregnancy loss

HD-01333 SHAPIRO, MARTIN M., Grad. Sch., Emory Univ., Atlanta, Ga.
conditioning..instrumental generalization; salivation

HD-01336 CALDWELL, DONALD F., Lafayette Clinic, Detroit, Mich.
psychological tests; learning..sequential learning; child development; stimulus; age; memory--retention; maturity; infant animals..newborn

HD-01349 SHEPP, BRYAN E., Brown Univ., Providence, R.I.
learning..mediation; discrimination; children; mental retardation; rewards and nonrewards; motivation

HD-01361 KENDLER, TRACY S., Grad. Sch., Univ. California, Santa Barbara, Cal.
conditioning; children; stimulus; response; discrimination; verbal behavior; psychometrics

HD-01376 CANTOR, JOAN H., Univ. Iowa, Iowa City, Iowa
learning..mediation; learning..association learning; verbal behavior; children; discrimination; concept; teaching

HD-01454 MICHELS, KENNETH M., Col. Soc. Sci., Florida Atlantic Univ., Boca Raton, Fla.
phylogeny; form perception; discrimination; age; psychophysics; primates

HD-01570 **GOLLIN, EUGENE S., Fels Research Inst., Yellow Springs, Ohio**
learning; discrimination; form perception.. color vision; memory--retention; cues; teaching; children

HD-01571 **ELLIOTT, ROGERS, Dartmouth Col., Hanover, N.H.**
attention; child development; motivation; performance; children; adults; age

HD-01850 **LEATON, ROBERT N., Dartmouth Col., Hanover, N.H.**
brain..hippocampus; exploratory behavior; learning; memory--retention; habituation; electrostimulus; brain lesions

HE-07084 **SHEARN, DONALD W., Colorado Col., Colorado Springs, Colo.** cardiovascular system; respiratory system; conditioning

HE-08571 **BOGDONOFF, MORTON D., Duke Univ. Med. Cr., Durham, N.C.**
nervous system..central nervous system; cardiovascular system; emotional reactions; verbal behavior; cognition; performance; heart function; cardiovascular diseases; psychophysics; adults

MH-00487 **MIRSKY, I. ARTHUR, Univ. Pittsburgh, Pittsburgh, Pa.**
conditioning..avoidance; emotional reactions; interpersonal behavior..competition; primates..monkeys; fear; awareness; hormones; hypertension (systemic)

MH-00576 **RICHTER, CURT P., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
cyclic functions; emotional reactions; feeding behavior; galvanic skin response; nervous system..sympathetic nervous system; psychiatry

MH-00647 **MILLER, NEAL E., Grad. Sch., Yale Univ., New Haven, Conn.**
behavior; motivation; conflict; stress; rewards and nonrewards; electrostimulus; brain; autonomic agents; learning; psychophysiology

MH-00675 **INGRAM, WALTER R., Sch. Med., State Univ. Iowa, Iowa City, Iowa**
behavior; brain..basal ganglia; brain..diencephalon; brain..hippocampus; brain..rhinencephalon; brain.. thalamus; brain lesions; conditioning; epilepsy; learning; performance; potentials

MH-00776 **HESS, ECKHARD H., Univ. Chicago, Chicago, Ill.**
imprinting; isolation; sex behavior; genetics.. hybrids

MH-00788 **WENGER, MARION A., Grad. Sch., Univ. California, Los Angeles, Cal.**
nervous system..autonomic nervous system; stimulus; response; psychometrics; personality; cold; sympatholytic agents; parasympatholytic agents; fear; anger; hypnosis; sleep; sex behavior; emotional reactions; climate

MH-01061 **FELDMAN, ROBERT S., Grad. Sch., Univ. Massachusetts, Amherst, Mass.**
behavior; chlordiazepoxide; conflict; conditioning.. operant conditioning; psychotropic drugs; electroencephalography; brain..hippocampus; brain..amygdala

MH-01091 **DYKMAN, ROSCOE A., Sch. Med., Univ. Arkansas, Little Rock, Arkansas**
behavior; blood pressure; conditioning..extinction; conflict; emotional disturbance; heart rate; hypertension (systemic); nervous system..autonomic nervous system; neuroses; psychophysiology; psychoses; response

MH-01290 **WISCHNER, GEORGE J., Sch. Natural Sci., Univ. Pittsburgh, Pittsburgh, Pa.**
children; discrimination; learning set; memory-retention; mental retardation; problem solving; reinforcement

MH-01298 **MOYER, KENNETH E., Carnegie Inst. Tech., Pittsburgh, Pa.**
adrenal glands; conditioning..avoidance; emotional reactions; feeding; stress

MH-01370 **THOMAS, GARTH J., Univ. Illinois, Urbana, Ill.**
behavior; brain..limbic system; brain lesions; reinforcement

MH-01386 **HAGAMEN, WILBUR D., Sch. Med., Cornell Univ., N.Y.C.**
brain lesions; brain..frontal lobe; brain mapping; potentials..action potentials; brain..cochlear nucleus; emotional reactions

MH-01562 **CAMPBELL, BYRON A., Grad. Sch., Princeton Univ., Princeton, N.J.**
trauma; age; electroshock; hunger; conditioning; learning; behavior activity

MH-01951 **FISHER, ALAN E., Univ. Pittsburgh, Pittsburgh, Pa.**
brain; centrally acting drugs; drive; experience; parasympathomimetic agents; sex behavior; stimulants

MH-02004 **DELGADO, JOSE M.R., Sch. Med., Yale Univ., New Haven, Conn.**
primates..monkeys; cinematography; electrostimulus; brain; social behavior; psychotropic drugs; conditioning

MH-02035 **MEYER, DONALD R., Ohio State Univ. Res. Fdn., Columbus, Ohio**
brain; instrumentation; learning; perception; primates; reinforcement

MH-02064 **McALLISTER, WALLACE R., Grad. Sch., Syracuse Univ., Syracuse, N.Y.**
conditioning; fear; performance; reinforcement

MH-02136 **LAZARUS, RICHARD S., Grad. Sch., Univ. California, Berkeley, Cal.**
cinematography; defense mechanisms; emotional reactions; galvanic skin response; heart rate; motivation; personality; psychometrics; stress

MH-02196 **RAZRAN, GREGORY, Queens Col., City Univ. New York, Flushing, N.Y.**
geographical sites..USSR; conditioning; infants, human; child development; survey; translations; phylogeny; imagery; nervous system..sympathetic nervous system; viscera

MH-02261 **BENDER, MORRIS B., Mt. Sinai Hosp., N.Y.C.**
visual perception; discrimination; visual threshold; tachistoscope; habit; learning; electroencephalography; primates..monkeys; nystagmus; brain..visual pathways; brain..oculomotor nuclei

MH-02267 **SCOVILLE, WILLIAM B., Hartford Hosp., Hartford, Conn.**
brain..rhinencephalon; brain lesions; learning; memory-retention; primates..monkeys

MH-02271 **LEHRMAN, DANIEL S., Rutgers State Univ., Newark, N.J.**
social behavior; sex behavior; sex hormones; cyclic functions; experience; learning; maternal behavior

MH-02433 **HOFFMAN, HOWARD S., Grad. Sch., Pennsylvania State Univ., University Pk., Pa.**
conditioning..avoidance; suppression (psychology); audiostimulus; electroshock; sound frequency; response; rewards and nonrewards; stimulus generalization; reinforcement; anxiety; fear; conflict; threshold; memory-retention

MH-02455 **HEBB, D.O., Grad. Sch., McGill Univ., Montreal, Canada**
learning; perception; visual perception; motivation; brain.. subcortical structures; single cell analysis; electrophysiology; brain lesions; brain damage; blood..serum; schizophrenia; performance; children; nerves..neurons

MH-02456 **BLOUGH, DONALD S., Grad. Sch., Brown Univ., Providence, R.I.**
alertness-vigilance; color vision; conditioning..extinction; discrimination; stimulus generalization

MH-02479 **JONES, AUSTIN, Univ. Pittsburgh, Pittsburgh, Pa.**
conditioning..operant conditioning; drive; information-seeking behavior; motivation; sensory deprivation

MH-02704 **MAIER, NORMAN R.F., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
problem solving; decision-making; leadership; interpersonal behavior..small groups; conflict; motivation; sex difference; creativity

MH-02741 **BLACK, ABRAHAM H., McMaster Univ., Hamilton, Canada**
muscle relaxants; curar; conditioning..avoidance; emotional reactions; nervous system..autonomic nervous system; learning

MH-02857 **BITTERMAN, M.E., Grad. Sch., Bryn Mawr Col., Bryn Mawr, Pa.**
learning; conditioning; reinforcement; brain lesions; brain..cerebral cortex; age

MH-02883 **WOODS, PAUL J., Hollins Col., Hollins College, Va.**
conditioning..extinction; drive; learning; reinforcement; rewards and nonrewards

MH-02895 **FOLTZ, ELDON L., Sch. Med., Univ. Washington, Seattle, Wash.**
conditioning..avoidance; stress; gastrointestinal motility; electrostimulus; brain..cingulum; brain..limbic system; psychophysiology; primates..monkeys

MH-03258 **GASTAUT, HENRI, Univ. Aix-Marseille, Marseille, France**
cooperative study; electroencephalography; computer analysis; habituation; conditioning; noise; sleep; brain lesions; epilepsy; behavior

MH-03337 **BRUSH, F. ROBERT, Col. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.**
anxiety; conditioning..avoidance; electroshock; psychophysiology; stress

MH-03372 **SPERRY, ROGER W., California Inst. Tech., Pasadena, Cal.**
brain lesions; decortication; interhemispheric delayed response; mental processes; interhemispheric transfer; brain..cerebral cortex; interocular transfer; visual perception; primates..monkeys

MH-03519 **STEVENSON, HAROLD W., Grad. Sch., Univ. Minnesota, Minneapolis, Minn.**
reinforcement; children; interpersonal behavior; age; sex difference; visual stimulus

MH-03571 **STELLAR, ELIOT, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
memory-retention; ouromycin; proteins; brain lesions; discrimination; alertness-vigilance; emotional reactions; interocular transfer; visual perception; conditioning; learning; catheterization; brain..hypothalamus; esophageal fistula; appetite

MH-03655 **ADER, ROBERT, Univ. Rochester, Rochester, N.Y.**
psychosomatic medicine; psychophysiology; prediction; genetics; maternal-fetal; experience; behavior; longitudinal study

MH-03658 **MORANT, RICARDO B., Grad. Sch., Brandeis Univ., Waltham, Mass.**
spatial perception; kinesthesis; touch; age; brain damage; mental disorders

MH-03732 **PRIBRAM, KARL H., Sch. Med., Stanford Univ., Stanford, Cal.**
brain..cerebral cortex; electrophysiology; computer; habituation; behavior; infants, human

(contd)

LISTING OF GENERAL RESEARCH AREAS

EXPERIMENTAL PSYCHOLOGY (CONTD)

MH-03803 MYERS, JEROME L., Grad. Sch., Univ. Massachusetts, Amherst, Mass.
risk behavior; success--failure; age; computer analysis; children; incentives; mathematical models

MH-03830 ORBACH, JACK, Michael Reese Hosp., Chicago, Ill.
brain..limbic system; learning; memory--retention; emotional reactions; feeding behavior; maternal behavior; sex behavior; fertility; primates..monkeys; perception; visual perception; dark adaptation; form perception

MH-03831 WORDEN, FREDERIC G., Sch. Med., Univ. California, Los Angeles, Cal.
audiostimulus; potentials..action potentials; nervous system..auditory nerve; ear..middle ear; habituation; attention; learning

MH-03881 WEBB, WILSE B., Grad. Sch., Univ. Florida, Gainesville, Fla.
sleep; behavior; electroencephalography

MH-03916 GRINGS, WILLIAM W., Grad. Sch., Univ. Southern California, Los Angeles, Cal.
verbal behavior; perception; conditioning..avoidance; nervous system..autonomic nervous system; cues; emotional reactions

MH-03917 GUTTMAN, NORMAN, Grad. Sch., Duke Univ., Durham, N.C.
stimulus generalization; discrimination; hearing; brain lesions; vision; conditioning

MH-04000 BEACH, FRANK A., Univ. California, Berkeley, Cal.
sex behavior; brain..limbic system; electrodes; electrophysiology; nervous system..central nervous system; stimulants; species; estrus

MH-04151 RECHTSCHAFFEN, ALLAN, Sch. Med., Univ. Chicago, Chicago, Ill.
d-amphetamine; dreams; eye movement; mental processes; narcolepsy; sleep; verbal behavior

MH-04153 EPSTEIN, WILLIAM, Grad. Sch., Univ. Kansas, Lawrence, Kans.
attitudes; movement perception; spatial perception

MH-04163 GAULT, FREDERICK P., Grad. Sch., Yale Univ., New Haven, Conn.
behavior; brain; discrimination; electrodes; potentials.. evoked potentials

MH-04172 GREENBLATT, MILTON, Sch. Med., Harvard Univ., Boston, Mass.
pain tolerance; perception; electroshock; anxiety; psychological tests; psychophysics; ethnic groups

MH-04201 TEICHNER, WARREN H., Grad. Sch., Univ. Massachusetts, Amherst, Mass.
stress; emotional reactions; thermoregulation; blood vessels vasomotion; body temperature; blood pressure; basal metabolism

MH-04202 SOLOMON, RICHARD L., Univ. Pennsylvania, Philadelphia, Pa.
children; conditioning; frustration; learning; masochism; morals; motivation; personality; rewards and nonrewards; sensory deprivation; social adjustment

MH-04211 WISHNER, JULIUS, Sch. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.
conditioning; galvanic skin response; muscle; performance; potentials..action potentials; psychiatric patients; reaction time; schizophrenia

MH-04236 COOMBS, CLYDE H., Sch. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
decision-making; personality; psychometrics; risk behavior

MH-04335 CLARK, FOGLE C., Evansville State Hosp., Evansville, Ind.
conditioning..operant conditioning; reinforcement; discrimination

MH-04453 KLOPFER, PETER H., Grad. Sch., Duke Univ., Durham, N.C.
experience; imprinting; isolation; species; behavior

MH-04469 SMITH, KARL U., Grad. Sch., Univ. Wisconsin, Madison, Wis.
television; instrumentation; visual perception; brain; behavior; space medicine; movement perception; learning; visual feedback; communication theory; computer

MH-04516 ZIMMERMAN, ROBERT R., Cornell Univ., Ithaca, N.Y.
discrimination; learning; conditioning..operant conditioning; visual perception; infant animals; primates.. monkeys; social adjustment

MH-04528 HARLOW, HARRY F., Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.
affection; sex behavior; interpersonal behavior; primates.. monkeys; family..parent--child; age; phenylketonuria; galactosemia; brain lesions; infant animals; brain.. cerebral cortex; brain..frontal lobe; brain..temporal lobe

MH-04529 VALENSTEIN, ELLIOT S., Fels Res. Inst., Yellow Springs, Ohio
brain; electrostimulus; emotional reactions; learning; rewards and nonrewards

MH-04605 RICHMOND, JULIUS B., State Univ. New York, Albany, N.Y.
child development; family..child rearing; nervous system.. autonomic nervous system; psychophysiology; psychosomatic medicine

MH-04670 KAUFMAN, I CHARLES, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
behavior; separation; emotional reactions; family.. parent--child; primates..Macaca nemestrina; primates.. Macaca radiata

MH-04726 WARREN, JOHN M., Sch. Educ., Pennsylvania State Univ., University Park, Pa.
age; brain..association cortex; brain lesions; learning; maternal behavior; memory-retention; primates..monkeys; psychometrics; social behavior

MH-04849 DIAMOND, IRVING T., Grad. Sch., Duke Univ., Durham, N.C.
instrumentation; audiostimulus; brain..sensory cortex; discrimination; hearing..auditory discrimination; somesthesis; vision; brain lesions; infant, animals; brain.. thalamus; brain..cerebral cortex; primates..tree shrews; phylogeny

MH-04853 O'KELLY, LAWRENCE I., Grad. Sch., Univ. Illinois, Urbana, Ill.
behavior; body fluids; dehydration (body fluids); drive; electrolytes; homeostasis; intestinal absorption; nervous system

MH-04891 WORELL, LEONARD, Col. Educ., Oklahoma State Univ., Stillwater, Okla.
conflict; performance; response generalization; motivation; personality

MH-04920 FINGER, FRANK W., Grad. Sch., Univ. Virginia, Charlottesville, Va.
drive; reinforcement; behavior; body weight

MH-04925 AZRIN, NATHAN H., Anna State Hosp., Anna, Ill.
aggression; centrally acting drugs; conditioning..avoidance; emotional reactions; pain; reflex; shock

MH-04926 AZRIN, NATHAN H., Anna State Hosp., Anna, Ill.
behavioral adjustment; conditioning; psychiatric patients; therapy; verbal behavior

MH-04985 BARE, JOHN K., Carleton Col., Northfield, Minn.
stimulus; emotional reactions; brain..limbic system; brain ..hippocampus; brain..reticular formation; attention; drive; conditioning

MH-05204 KELLAWAY, PETER, Sch. Med., Baylor Univ., Houston, Texas
hippocampectomy; cinematography; behavior; emotional reactions; learning..sequential learning; memory-retention; motivation; conditioning..avoidance; primates..monkeys; primates..baboons

MH-05286 ROSNER, BURTON S., Sch. Med., Yale Univ., New Haven, Conn.
brain..cerebral cortex; electrostimulus; injury; perception; potentials..action potentials; primates..monkeys; psychophysics; sensory mechanisms; skin; somesthesis

MH-05287 SAWREY, WILLIAM L., California State Col., Hayward, Cal.
peptic ulcer; psychophysiology; stress; social adjustment; therapy; electroshock; conflict; fear; conditioning

MH-05430 NOVICK, ALVIN, Yale Univ., New Haven, Conn.
auditory threshold; bats; hearing..auditory discrimination; sound frequency

MH-05643 KING, JOHN A., Michigan State Univ., East Lansing, Mich.
genetics; ecology, animal; phylogeny; growth; emotional reactions

MH-05673 TEUBER, HANS-LUKAS, Massachusetts Inst. Tech., Cambridge, Mass.
research programs; neuropsychology; brain damage; behavior; cerebrovascular disorders; brain neoplasms; children; congenital abnormalities; age; sensory disorders; brain lesions; primates..monkeys

MH-05767 KLING, J.W., Grad. Sch., Brown Univ., Providence, Rhode Island
brain; electrostimulus; behavior activity; stimulus generalization; reinforcement; discrimination

MH-05874 BROOKSHIRE, KENNETH H., Franklin and Marshall Col., Lancaster, Pa.
stress; psychophysiology; arousal; electroshock; conflict; fear; brain; stimulating factors; heart rate

MH-05994 BRACKBILL, YVONNE, Univ. Colorado Med. Cr., Denver, Colo.
reinforcement; learning; children; memory--retention

MH-06022 SHMAVONIAN, B.M., Duke Univ. Med. Cr., Durham, N.C.
conditioning; nervous system..autonomic nervous system; blood vessels vasomotion; galvanic skin response; blood flow; electroencephalography; catecholamines; nervous system..central nervous system

MH-06060 KIMMEL, H.D., Univ. Florida, Gainesville, Fla.
galvanic skin response; conditioning..operant conditioning; reinforcement; conditioning..avoidance

MH-06117 JONES, F. NOWELL, Grad. Sch., Univ. California, Los Angeles, Cal.
somesthesis; stimulus; cold; heat

MH-06130 ASDOURIAN, DAVID, Col. Liberal Arts, Wayne State Univ., Detroit, Mich.
brain; learning..mediation; conditioning..operant conditioning; rewards and nonrewards; electrostimulus; motivation; brain lesions

MH-06161 BAETTIG, KARL, Swiss Federal Inst. Tech., Zurich, Switzerland
electrostimulus; brain..subcortical structures; behavior; brain mapping

MH-06195 OLDS, JAMES, Univ. Michigan, Ann Arbor, Mich.
behavior; reinforcement; conditioning..operant conditioning; brain; nervous system..peripheral nerves; potentials..action potentials; single cell analysis; brain lesions

MH-06199 MARLER, PETER R., Univ. California, Berkeley, Cal.
behavior; sensory mechanisms; eye..fundus oculi; visual perception; orientation, psychological

MH-06235 **SMITH, CHARLES J., Col. Arts, Sci., State Univ. New York, Buffalo, N.Y.**
electrophysiology; single cell analysis; brain..geniculate body lateral; encephale isole; visual perception; electrostimulus; brain..hypothalamus; brain..reticular formation; conditioning; response

MH-06282 **BRIDGER, WAGNER H., Albert Einstein Col. Med. Yeshiva Univ., N.Y.C.**
conditioning..extinction; conditioning..verbal conditioning; electroshock; expectancy; galvanic skin response; learning..mediation; mental processes; reinforcement; stimulus generalization

MH-06324 **BERLYNE, DANIEL E., Univ. Toronto, Toronto, Canada**
exploratory behavior; arousal; learning; psychophysiology; stimulus; orientation; sensory deprivation; reinforcement; visual stimulus; audiostimulus; galvanic skin response; cognition; symbolism

MH-06332 **WILSON, RONALD S., Grad. Sch., State Univ. Iowa, Iowa City, Iowa**
autonomic reflexes; blood pressure; conflict; discrimination; electroshock; galvanic skin response; heart rate; instrumentation-methodology; muscle tension; respiration; stress

MH-06333 **HETHERINGTON, EILEEN M., Grad. Sch., Univ. Wisconsin, Madison, Wis.**
learning..mediation memory-retention; children; mental retardation; rewards and nonrewards

MH-06352 **FRIEDMAN, STANFORD B., Sch. Med., Univ. Rochester, Rochester, N.Y.**
stress; conditioning..operant conditioning; neoplasms; infectious diseases; emotional reactions; experience; infant animals

MH-06552 **GELLHORN, ERNST, Westmont Col., Santa Barbara, Cal.**
publications; nervous system..central nervous system; nervous system..autonomic nervous system; neuroses

MH-06580 **IRWIN, FRANCIS W., Col. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.**
decision-making; game theory; pleasure-displeasure; prediction; risk behavior

MH-06581 **SANDLER, JACK, Univ. Miami, Coral Gables, Fla.**
conditioning; reinforcement; rewards and nonrewards; masochism; primates..Marmoset

MH-06590 **DEANE, GEORGE E., Harpur Col. Res. Fdn. State Univ. New York, Albany, N.Y.**
anxiety; conditioning; electroshock; expectancy; heart rate; respiration

MH-06617 **BESCH, NORMA F., Sch. Med., Ohio State Univ. Res. Fdn., Columbus, Ohio**
ACTH; brain..septum pellucidum; brain lesions; conditioning..avoidance; emotional reactions; memory-retention; sensory mechanisms; stress; threshold

MH-06621 **LIT, ALFRED, Grad. Sch., Southern Illinois Univ., Carbondale, Ill.**
depth perception; eye..retina; color vision; vision tests; photochemistry; visual threshold; movement perception; light adaptation; dark adaptation

MH-06647 **GERKEN, GEORGE M., Grad. Sch., Univ. Virginia, Charlottesville, Va.**
brain..colliculus inferior; electrostimulus; sensory mechanisms; behavior; threshold; conditioning..avoidance; stimulus generalization; discrimination; hearing

MH-06661 **BONEAU, CHARLES A., Grad. Sch., Duke Univ., Durham, N.C.**
discrimination; performance; color vision; reinforcement; psychometrics

MH-06686 **FREEMAN, WALTER J., Col. Letters, Sci., Univ. California, Berkeley, Cal.**
attention; brain..sensory cortex; computer analysis; conditioning; electroencephalography; electrostimulus; motivation; performance

MH-06722 **GLICKSTEIN, MITCHELL, Sch. Med., Univ. Washington, Seattle, Wash.**
brain..cerebral commissures (unspecified); brain..corpus callosum; brain..frontal lobe; brain lesions; interhemispheric transfer; learning; lobectomy; memory-retention; primates..monkeys

MH-06723 **VAUGHAN, HERBERT G., Jr., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.**
audiostimulus; behavior; brain lesions; cognition; communication theory; computer analysis; electroencephalography; perception; psychophysiology; reaction time; somesthesis; visual stimulus

MH-06765 **ZEAMAN, DAVID, Sch. Arts, Sci., Univ. Connecticut, Storrs, Conn.**
anxiety; conditioning; galvanic skin response; heart rate; plethysmography; respiration; statistics

MH-06971 **STAMM, JOHN S., Queens Col., Flushing, N.Y.**
epilepsy; discrimination; response generalization; memory--retention; electrocorticography; conditioning; reinforcement; primates..monkeys

MH-06988 **CANDLAND, DOUGLAS K., Bucknell Univ., Lewisburg, Pa.**
conditioning..avoidance; ecology, animal; hunger; imprinting; learning; separation; social behavior

MH-07031 **SHELLEY, HARRY P., Grad. Sch., Univ. Nebraska, Lincoln, Nebr.**
social behavior; motivation; reinforcement; stimulus; learning

MH-07037 **CLEMENTE, CARMINE D., Sch. Med., Univ. California, Los Angeles, Cal.**
learning; conditioning..avoidance; brain..corticothalamic tract; electrostimulus; brain..cortical nuclei; brain

MH-07051 **VONEIDA, THEODORE J., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
brain..substantia nigra; brain..commissures (unspecified); brain lesions; visual stimulus; conditioning; learning; interocular transfer

MH-07080 **BUSS, ARNOLD H., Univ. Pittsburgh, Pittsburgh, Pa.**
stimulus generalization; conditioning; aggression; anger

MH-07097 **BUCHWALD, NATHANIEL A., Univ. California Med. Ctr., Los Angeles, Cal.**
brain..basal ganglia; electrostimulus; electrophysiology; brain..cerebral cortex; brain..thalamus; behavior; sensory mechanisms; habituation; brain lesions; learning; dyskinesia; Parkinson's disease; sleep; DOPA; catecholamines; tranquilizers; enzymes inhibitors..anticholinesterases; epilepsy; feeding behavior; carbachol; acetylcholine

MH-07129 **LEWIS, DONALD J., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.**
electroshock; convulsions; learning; amnesia; nervous system

MH-07152 **THOMPSON, ROBERT L., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
discrimination; conditioning..avoidance; electroshock; behavior; primates..monkeys; fear; reinforcement

MH-07157 **EHRENFREUND, DAVID, So. Illinois Univ., Carbondale, Ill.**
motivation; hunger; frustration; rewards and nonrewards; feeding behavior; body weight; performance

MH-07170 **ANTONITIS, JOSEPH J., Col. Arts, Sci., Univ. Maine, Orono, Me.**
vocalization; behavior; children; conditioning; reinforcement; learning..association learning; thinking

MH-07179 **BROZEK, JOSEF, Grad. Sch., Lehigh Univ., Bethlehem, Pa.**
vision tests..flicker fusion; visual stimulus; performance; visual feedback; hallucinations; depth perception; nerve impulse transmission; psychophysiology

MH-07197 **KORNBLUM, SYLVAN, Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
choice behavior; reaction time; psychometrics; visual stimulus; expectancy

MH-07223 **THOMPSON, WILLIAM D., Grad. Sch., Baylor Univ., Waco, Tex.**
radiography; radiation hazards; behavior; nervous system.. autonomic nervous system; electrocardiography; body temperature

MH-07227 **PATTON, ROBERT A., Sch. Natural Sci., Univ. Pittsburgh, Pittsburgh, Pa.**
conditioning..operant conditioning; performance; reinforcement; exploratory behavior; hemispherectomy; D--amphetamine; caffeine; meprobamate; reserpine; amobarbital; ethanol; primates..monkeys

MH-07253 **KARLIN, LAWRENCE, Grad. Sch., New York Univ., New York, N.Y.**
expectancy; reaction time; response; stimulus; psychometrics; mathematical models; computer analysis

MH-07265 **TAPP, JACK T., Grad. Sch., Vanderbilt Univ., Nashville, Tenn.**
spreading depression; conditioning; brain..cerebral cortex; potassium chloride; amnesia; learning

MH-07290 **ANDY, ORLANDO J., Univ. Mississippi Med. Ctr., Jackson, Miss.**
behavior; brain..limbic system; brain..septum pellucidum; electrophysiology; learning; memory-retention; primates.. monkeys

MH-07381 **DENENBERG, VICTOR H., Grad. Sch., Purdue Univ., Lafayette, Ind.**
social behavior; emotional reactions; experience; stress; hunger; thirst; corticosterone; age; infant animals

MH-07435 **LEVINE, SEYMOUR, Sch. Med., Stanford Univ., Palo Alto, Cal.**
stress; behavior; emotional reactions; conditioning.. avoidance; learning; maternal behavior; discrimination; isolation; stimulus; infants, animals; primates..monkeys; endocrine glands

MH-07501 **VAN SOMMERS, PETER, Sch. Applied Psychology, Univ. New South Wales, Kensington, N.S.W.**
behavior; respiration; gas tensions; oxygen; carbon dioxide; hypoxia; conditioning..avoidance; instrumentation-methodology

MH-07568 **ASERINSKY, EUGENE, Jefferson Med. Col., Philadelphia, Pa.**
dreams; eye movements; electroencephalography; respiration; glavanic skin response; sleep

MH-07588 **PICK, HERBERT L., Jr., Inst. Child Development, Univ. Minnesota, Minneapolis, Minn.**
visual perception; movement perception; depth perception; interocular transfer

MH-07603 **BEST, JAY B., Sch. Vet. Med., Colorado State Univ., Ft. Collins, Colo.**
behavior; turbellaria..Planaria; feeding; cell components..cell nucleus; cell migration; conditioning.. operant conditioning; tritium; instrumentation

MH-07631 **PICK, HERBERT L., Jr., Grad. Sch., Univ. Minnesota, Minneapolis, Minn.**
perception; visual perception; touch; sensory mechanisms; optical illusions; children; age; blindness

(contd)

LISTING OF GENERAL RESEARCH AREAS

EXPERIMENTAL PSYCHOLOGY (CONTD)

MH-07642 **HELD, RICHARD, Sch. Humanities, Soc. Sci., Massachusetts Inst. Tech., Cambridge, Mass.**
sensory mechanisms; body movement; psychophysics; adults; infant, human; child development; primates.. monkeys; infant, animal; sensory deprivation; visual stimulus; form perception; spatial perception; movement perception; visual feedback; alertness vigilance

MH-07700 **BROWN, JERRAM L., Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.**
brain..hypothalamus; brain mapping; behavior; electro-stimulus; motivation; vocalization; aggression; brain lesions

MH-07802 **POWELL, ERVIN W., Sch. Med., Univ. Mississippi, Jackson, Miss.**
behavior; brain..caudate nucleus; brain..cerebral brain..limbic system; brain..substantia nigra; brain lesions; conditioning..operant conditioning; electrolytes; reinforcement; rewards and nonrewards; sensory feedback; time

MH-07822 **JEFFREY, WENDELL E., Univ. California, Los Angeles, Cal.**
conditioning..avoidance; discrimination; exploratory behavior; genetic strains; hoarding behavior; infants (animals); maternal behavior; stress; sucking behavior

MH-07844 **PAVLIK, WILLIAM B., Col. Arts, Sci., Rutgers Univ., New Brunswick, N.J.**
conditioning..extinction; performance; habituation; reinforcement; deprivation; choice behavior; rewards and nonrewards; instrumentation--methodology

MH-07944 **BUCKWALD, ALEXANDER, Sch. Arts, Sci., Indiana Univ., Bloomington, Ind.**
learning..mediation; concept; problem solving; visual stimulus; cues; memory--retention

MH-07967 **MOLTZ, HOWARD, Brooklyn Col., Brooklyn, N.Y.**
maternal behavior; siblings; breeding cycles; pregnancy.. Cesarean section; age; infant animal..newborn; experience

MH-07968 **MITCHELL, JAMES C., Col. Liberal Arts, Sci., Southern Illinois Univ., Carbondale, Ill.**
behavior; brain..limbic system; brain lesions; conditioning..avoidance; electrodes; electroshock

MH-07995 **OBRIST, PAUL A., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
conditoning; response; heart rate; autonomic reflexes; nervous system..sympathetic nervous system; nervous system..vagus nerve; respiration; muscle..skeletal muscle; atropine; curare; electroshock; stimulus; sympatholytic agents; Flaxedil; Ergot alkaloids

MH-08016 **MILES, RAYMOND C., Col. Educ., Ohio State Univ., Columbus, Ohio**
behavior; conditioning; experience; environment; isolation; learning; maturity; stimulus generalization

MH-08033 **GRICE, G. ROBERT, Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.**
conditioning; cues; eyelids; fingers; learning..mediation; reaction time; response generalization; stimulus

MH-08035 **SEIDENBERG, BERNARD, Brooklyn Col., Brooklyn, N.Y.**
attitude; orientation; visual perception; conditioning.. verbal conditioning; visual stimulus; psychological tests; galvanic skin response

MH-08061 **LEIBOWITZ, HERSCHEL W., Col. Liberal Arts, Pennsylvania State Univ., University Park, Pa.**
age; behavior; children; cues; form perception; visual perception; visual stimulus

MH-08064 **STAMM, JOHN S., Queens Col., Flushing, N.Y.**
behavior; brain..frontal lobe; lobectomy; primates.. monkeys; response

MH-08071 **PEASTREL, AUGUST L., Sch. Liberal Arts, Pennsylvania State Univ., University Park, Pa.**
adults; audiostimulus; behavior; conditioning.. verbal conditioning; conflict; electrostimulus; muscle tension; reaction time; reinforcement; semantics; speech; stimulus generalization; stress

MH-08081 **BURKE, C.J., Alameda State Col., Hayward, Cal.**
behavior; computer programming; learning..association learning; mathematical models; prediction; psychology

MH-08087 **GORDON, NORMAN B., Grad. Sch., Yeshiva Univ., N.Y.C.**
adults; kinesthesis; learning..mediation; performance; reaction time; visual stimulus

MH-08112 **HAVENS, LESTON L., Massachusetts Mental Hlth. Cr., Boston, Mass.**
visual perception; learning..association learning; cognition; memory-retention; visual threshold; visual stimulus

MH-08119 **WAUGH, NANCY C., Sch. Med., Harvard Univ., Cambridge, Mass.**
memory-retention; reaction time; mental processes; learning; mathematical models

MH-08123 **CHURCH, RUSSELL M., Grad. Sch., Brown Univ., Providence, R.I.**
behavior; conditioning; electroshock; heart rate; rewards and nonrewards; stimulus generalization; suppression (psychology); time

MH-08289 **TERMAN, C. RICHARD, Col. William and Mary, Williamsburg, Va.**
population dynamics, animal; social behavior; hoarding behavior; fertility; isolation; reproductive system; sex hormones; adrenal glands; experience

MH-08366 **ZEIGLER, H. PHILIP, Grad. Sch., City Col., N.Y.C.**
behavior; brain; brain lesions; learning; maternal behavior; sex behavior

MH-08377 **THOMPSON, ROBERT, Sch. Arts, Sci., Louisiana State Univ., Baton Rouge, La.**
brain; cerebral cortex; brain..diencephalon; brain.. hippocampus; brain..limbic system; brain..mesencephalon; brain..pretectal region; brain..rhinencephalon; brain lesions; conditioning..avoidance; discrimination; electrodes; memory-retention

MH-08419 **KARSH, EILEEN B., Drexel Inst. Tech., Philadelphia, Pa.**
conditioning..operant conditioning; electroshock; hunger; learning; motivation; reinforcement; rewards and nonrewards

MH-08423 **WICKENS, DELOS D., Sch. Educ., Ohio State Univ., Columbus, Ohio**
response; training; conditioning; discrimination; electroshock; audiostimulus; visual stimulus

MH-08430 **BARON, ALAN, Col. Letters, Sci., Univ. Wisconsin, Milwaukee, Wis.**
behavior; frustration; experience; conditioning..operant conditioning; reinforcement; age

MH-08433 **HUNT, DARWIN P., Col. Arts, Sci., Univ. Dayton, Dayton, Ohio**
conditioning; discrimination; galvanic skin response; electrostimulus; audiostimulus; reinforcement; adults

MH-08442 **JENKINS, HERBERT M., McMaster Univ., Hamilton, Ontario, Canada**
learning; discrimination; conditioning..operant conditioning; conditioning..extinction; reinforcement; time; learning..mediation; visual stimulus

MH-08461 **LLOYD, KENNETH E., Washington State Univ., Pullman, Wash.**
conditioning..operant conditioning; conditioning..extinction; behavior; discrimination; reinforcement; learning.. sequential learning

MH-08473 **FRENCH, GILBERT M., Col. Letters, Sci., Univ. California, Berkeley, Cal.**
visual perception; performance; memory-retention; brain lesions; brain..frontal lobe; brain..temporal lobe; brain.. amygdala; brain..hippocampus; hearing..auditory discrimination; audiostimulus; visual stimulus; primates..Macaca mulatta; cues

MH-08481 **RANKEN, HOWARD B., Sch. Humanities, Soc. Sci., Education, Purdue Univ., Lafayette, Ind.**
problem solving; symbolism; concept; discrimination; learning..association learning; form perception; semantics..language

MH-08482 **WISCHNER, GEORGE J., Sch. Natural Sci., Univ. Pittsburgh, Pittsburgh, Pa.**
conflict; discrimination; electroshock; learning; performance; rewards and nonrewards

MH-08485 **LEVINE, MARVIN, Col. Arts, Sci., Indiana Univ., Bloomington, Ind.**
learning..mediation; problem solving; age; children; concept; discrimination; mathematical models; learning set

MH-08493 **HOEBEL, BARTLEY G., Princeton Univ., Princeton, N.J.**
feeding behavior; self stimulation; brain..hypothalamus; conditioning..operant conditioning; reinforcement; brain lesions; carbohydrates; fats

MH-08495 **DACHOWSKI, LAWRENCE W., Col. Arts, Sci., Tulane Univ., New Orleans, La.**
frustration; drive; behavior; rewards and nonrewards; reinforcement; conditioning..extinction; cross--modal transfer

MH-08503 **ARNOLD, WILLIAM J., Grad. Col., Univ. Nebraska, Lincoln, Nebr.**
isolation; interpersonal behavior; family..parent--child; peer group; infant animals..newborn; experience; socio-environment; maternal behavior; adults

MH-08505 **SEGAL, EVALYN F., San Diego State Col. Fdn., San Diego, Cal.**
behavior; conditioning..operant conditioning; reinforcement; primates..squirrel monkeys; autonomic reflexes

MH-08515 **NEVIN, JOHN A., Swarthmore Col., Swarthmore, Pa.**
discrimination; training; visual stimulus; reinforcement; psychophysics

MH-08520 **UHL, CHARLES N., Col. Letters, Sci., Univ. Utah, Salt Lake City, Utah**
learning; concept; judgment; motivation; visual stimulus; criteria; rewards and nonrewards

MH-08525 **SUDAK, FREDERICK N., Albert Eistein Col. Med., Yeshiva Univ., N.Y.C.**
thermoregulation; behavior; defense mechanisms; cold; conditioning..operant conditioning; caloric stimulation; brain..hypothalamus; body temperature; reinforcement; oxygen consumption

MH-08537 **LOESS, HENRY B., Grad. Sch., Col. Wooster, Wooster, Ohio**
memory--retention; psychometrics; visual stimulus; statistics

MH-08538 **ZIMBARDO, PHILIP G., Grad. Sch. Arts, Sci., New York Univ., New York, N.Y.**
auditory feedback; emotional reactions; self--organization; social behavior; attitude; motivation; psychological tests; stimulus; mental retardation; schizophrenia; adults

MH-08545 **KIMBLE, DANIEL P., Grad. Sch., Univ. Oregon, Eugene, Ore.**
behavior; brain lesions; brain..limbic system; brain.. amygdala; brain..hippocampus; brain..cingulum; habituation; memory-retention; learning; hippocampectomy; primates..macaca mulatta; centrally acting drugs; depressants; stimulants

MH-08552 **STROEBEL, CHARLES F., Inst. Living, Hartford, Conn.**
behavior; prediction; diurnal variation; conditioning..avoidance; conditioning..extinction; emotional reactions; photosensitivity; body temperature; acidosis; primates.. monkeys; endocrine glands; nervous system..extrapyramidal tracts; nervous system..autonomic nervous system

MH-08554 **RABE, AUSMA, Bu. Res. Neurology and Psychiatry, Trenton, N.J.**
brain lesions; brain..hippocampus; brain..amygdala; brain..cuadate nucleus; behavior; learning; conditioning.. operant conditioning; conditioning..avoidance; discrimination

MH-08556 **BUSCHKE, HERMAN, Sch. Med., Stanford Univ., Palo Alto, Cal.**
memory-etention; sensory feedback; auditory feedback; visual feedback; instrumentation-methodology

MH-08604 **ROSENBLATT, JAY S., Col Arts, Sci., Rutgers State UNIV., Newark, N.J.**
maternal behavior; pregnancy..postpartum; pituitary hormones; sex hormones; lactation; estrone; progesterone; somatotropin; prolactin; hydrocortisone; ovary

MH-08656 **EDELBERG, ROBERT, Univ. Oklahoma Med. Cr., Oklahoma City, Okla.**
glavanic skin response; electrodes..microelectrodes; sweat glands; epithelium; temperature; electrostimulus; nerve impulse transmission; touch; psychophysiology; potentials..membrane potentials; skin; reflex

MH-08679 **SPIGEL, IRWIN M., Col. Liberal Arts, Temple Univ., Philadelphia, Pa.**
behavior; psychophysiology; phylogeny; brain lesions; problem solving; memory--retention; conditioning.. operant conditioning; amphetamine; chlorpromazine

MH-08698 **ESSMAN, WALTER B., Queens Col., City Univ. New York, Flushing, N.Y.**
behavior; brain..cerebral cortex; brain..hippocampus; brain..hypothalamus; brain..reticular formation; conditioning..avoidance; drugs; environment; hunger; hyperthermia; hypothermia; intestines..colon; learning; memory-retention; performance; psychophysiology; temperature; thermoregulation; thirst

MH-08706 **EBENHOLTZ, SHELDON M., Connecticut Col., New London, Conn.**
orientation, psychological; spatial perception; body position; visual field; visual perception

MH-08741 **TRABASSO, THOMAS R., Col. Letters, Sci., Univ. Califomia, Los Angeles, Cal.**
learning..association learning; concept; memory--retention; cues; visual stimulus; discrimination; sensory feedback; adults; attention

MH-08775 **SCHAEFFER, ROBERT W., Grad. Sch., Florida State Univ., Tallahassee, Fla.**
behavior; reflex; reinforcement; species; hunger; thirst

MH-08786 **UTTAL, WILLIAM R., Univ. Michigan, Ann Arbor, Mich.**
sensory mechanisms; psychophysiology; electrophysiology; communication theory; potentials.. spike potential; electrostimulus; nervous system.. somatic afferent nerves; brain..somatosensory cortex; computer programming

MH-08799 **TRAPOLD, MILTON A., Grad. Sch., Univ. Minnesota, Minneapolis, Minn.**
reinforcement; learning; conditioning..operant conditioning; motivation; performance; response generalization

MH-08818 **ZEILER, MICHAEL D., Psychological Lab., Wellesley Col., Wellesley, Mass.**
learning; behavior; discrimination; problem solving; children; child development; psychological tests; prediction

MH-08819 **YARCZOWER, MATTHEW, Sch. Arts, Sci., Univ. Maryland, College Park, Md.**
stimulus generalization; visual perception; electrophysiology; reinforcement; behavior; training; photochemistry; discrimination; visual stimulus

MH-08820 **TRAVIS, ROBERT P., Jr., Univ. Alabama Med. Cr., Birmingham, Ala.**
learning; conditioning..avoidance; discrimination; primates..squirrel monkeys; potentials..evoked potentials; rewards and nonrewards; brain lesions; habituation; electroshock; audiostimulus; computer analysis

MH-08822 **MASSERMAN, JULES H., Sch. Med., Northwestern Univ., Chicago, Ill.**
social behavior; altruism; conditioning..avoidance; conditioning..operant conditioning; electroshock; communication; social organization; sex difference; age; species; primates..Macaca mulatta

MH-08823 **RAY, WILBERT S., Bethany Col., Bethany, W.Va.**
training; learning; problem--solving; memory--retention; success--failure; psychological tests; reinforcement; adults; learning set

MH-08841 **ULRICH, ROGER E., Illinois Wesleyan Univ., Bloomington, Ill.**
aggression; social behavior; conditioning..avoidance; electroshock; rewards and nonrewards; pain; reinforcement; primates..squirrel monkeys

MH-08844 **ORLANDO, ROBERT, Col. Educ., Univ. Minnesota, Minneapolis, Minn.**
learning; mental retardation; adults; children; reinforcement; conditioning..operant conditioning; discrimination; behavior; goal--striving behavior; rewards and nonrewards

MH-08876 **GOLDIAMOND, ISRAEL, Inst. Behavioral Research, Silver Spring, Md.**
verbal behavior; speech disorders; sensory feedback; conditioning..operant conditioning; reinforcement

MH-08878 **FOLEY, JOHN M., Univ. California, Santa Barbara, Cal.**
visual perception; spatial perception; orientation, psychological; biomathematics; psychophysics

MH-08885 **FAUST, WILLIAM L., Pomona Col., Claremont, Cal.**
motivation; emotional reactions; sensory mechanisms; stimulus; personality; thermoreception; vision; hearing

MH-08886 **SCOTT, EARL D., Cornell Col., Mount Vernon, Iowa**
behavior; conditioning..operant conditioning; conditioning..avoidance; conditioning..extinction; reinforcement; rewards and nonrewards; electroshock

MH-08887 **PENNYPACKER, HENRY S., Jr., Col. Arts, Sci., Univ. Florida, Gainesville, Fla.**
eyelids; conditioning..extinction; discrimination; primates..squirrel monkeys; visual stimulus

MH-08888 **SPEAR, NORMAN E., Col. Arts, Sci., Rutgers State Univ., New Brunswick, N.J.**
performance; reinforcement; rewards and nonrewards; experience; body weight

MH-08889 **DERKS, PETER L., Col. of William and Mary, Williamsburg, Va.**
learning..association learning; stimulus; response discrimination; choice behavior; memory-retention

MH-08890 **WICKELGREN, WAYNE A., Massachusetts Inst. Technology, Cambridge, Mass.**
attention; memory--retention; audiostimulus; visual stimulus

MH-08905 **GEER, JAMES H., Sch. Arts, Sci., State Univ., New York at Buffalo, Buffalo, N.Y.**
psychophysiology; conditioning; habituation; response; audiostimulus; auditory threshold; heart rate

MH-08908 **LOOFBOURROW, G.N., Univ. Kans. Med. Cr., Kansas City, Kans.**
behavior; muscle contraction; nerve impulse transmission; nerves..motor neurons; body movement; epilepsy

MH-08909 **KEESEY, RICHARD E., Sch. Letters, Sci., Univ. Wisconsin, Madison, Wis.**
rewards and nonrewards; brain..subcortical structures; self stimulation; electrostimulus; brain lesions

MH-08933 **WEIR, MORTON W., Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.**
behavior; prediction; infants..human; children; adults; problem solving; concept; experience; conditioning..operant conditioning; reinforcement; form perception

MH-08934 **FOX, ROBERT, Grad. Sch., Vanderbilt Univ., Nashville, Tenn.**
visual perception; visual field; psychophysics

MH-08936 **FLYNN, JOHN P., Sch. Med., Yale Univ., New Haven, Conn.**
behavior; aggression; sensory mechanisms; nervous system..central nervous system; brain lesions; decortication; brain..visual cortex; brain..motor cortex; electrostimulus; primates..monkeys

MH-08937 **HENNEMAN, RICHARD H., Grad. Sch. Arts, Sci., Univ. Virginia, Charlottesville, Va.**
form perception; psychophysics; learning; performance; visual stimulus

MH-08938 **GARDNER, BEATRICE T., Univ. Nevada Behavioral Sci. Cr, Reno, Nev.**
behavior; drive; hunger; performance

MH-08974 **SILVERSTEIN, ALBERT, Col. Arts, Sci., Univ. Rhode Island, Kingston, R.I.**
learning..association learning; stimulus; memory-retention; conditioning..verbal conditioning; pleasure-displeasure; adults

MH-08975 **ZINNES, JOSEPH L., Indiana Univ. Fdn., Bloomington, Ind.**
discrimination; judgement; stimulus generalization; psychophysics

MH-10039 **ADAMS, HENRY E., Univ. Georgia, Athens, Ga.**
learning; electroshock; conditioning; emotional reactions; convulsions

MH-10174 **GAMES, PAUL A., Col. Arts, Sci., Ohio Univ., Athens, Ohio**
learning..association learning; memory--retention; psychological tests; time; adults; statistics

MH-10179 **HAMILTON, CHARLES L., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
feeding behavior; body temperature; caloric stimulation; oxygen consumption; brain..hypothalamus; hyperphagia; brain lesions; obesity; diabetes; fatty acids; primates..monkeys

MH-10185 **WAGNER, MAHLON W., Col. Arts, Sci., Valparaiso Univ., Valparaiso, Indiana**
stress; sugars; feeding behavior; hunger; temperature; isolation; adrenal glands; thymus

MH-10186 **SCHMIDT, JAMES F., Grad. Sch., Trinity Univ., San Antonio, Tex.**
visual perception; eye movements; reaction time; psychophysics; visual feedback; nervous system.. optic nerve; eye..retina; color vision; adults

MH-10187 **TORREY, NATALIE E., Lawrence Univ., Appleton, Wis.**
imprinting; social behavior; exploratory behavior; feeding behavior; vocalization; isolation; experience; siblings

(contd)

EXPERIMENTAL PSYCHOLOGY (CONTD)

MH-10189 HICKS, DAVID J., Chico State Col., Chico, Cal.
aggression; learning..mediation; child development; discrimination; cues; education..audio--visual aids; memory--retention; rewards and nonrewards; behavior rating scales

MH-10213 SCHULMAN, SIDNEY, Sch. Med., Univ. Chicago, Chicago, Ill.
brain lesions; brain..thalamic nuclei; conditioning; arousal; radioisotopes..yttrium 90; discrimination; problem solving; audiostimulus; primates..Macaca mulatta

MH-10218 ANDERSON, BARRY F., Col. Liberal Arts, Univ. Oregon, Eugene, Ore.
learning; concept; insight; problem solving; cues; form perception; visual perception; kinesthesis; discrimination; sensory feedback

MH-10235 ROSS, LEONARD E., Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.
conditioning; response; eyelids; learning; mental retardation; children; reinforcement

MH-10236 McDONALD, DAVID G., Univ. Missouri Med. Cr., Columbia, Mo.
psychophysiology; sleep; habituation; discrimination; heart rate; galvanic skin response; blood vessels; vasomotion

MH-10246 KING, JAMES E., Col. Liberal Arts, Univ. Arizona, Tucson, Ariz.
learning; discrimination; species; conditioning; reinforcement; rewards and nonrewards; psychomotor functions; primates..squirrel monkeys

MH-10249 KEPPEL, GEOFFREY, Col. Letters, Sci., Univ. California, Berkeley, Cal.
learning..association learning; memory--retention; reinforcement; conditioning..extinction; discrimination; response

MH-10276 KOPPMAN, JERRY W., San Diego State Col. Fdn., San Diego, Cal.
spreading depression; choice behavior; neurosurgery; conditioning..avoidance; potassium chloride; discrimination; sensory deprivation

MH-10277 LORDAHL, DANIEL S., Col. Arts, Sci., Univ. Miami, Coral Gables, Fla.
problem solving; concept; cognition; visual perception; learning..association learning; sensory feedback; statistics

MH-10278 STROUTHES, ANDREW, Harpur Col., State Univ. New York, Binghamton, N.Y.
fear; conditioning; electroshock; stimulus; experience; learning

MH-10284 BLISS, EUGENE L., Univ. Utah Med. Cr., Salt Lake City, Utah
emotional reactions; stress; norepinephrine; serotonin; brain; tritium; normetanephrine; electrocoagulation; muscle relaxants; brain lesions; immobilization; self stimulation; electroshock; chlorpromazine; lysergic acid; 17--hydroxycorticosteroids

MH-10293 WURTZ, ROBERT H., Sch. Med., Washington Univ., St. Louis, Mo.
potentials..membrane potentials; brain..cerebral cortex; attention; learning; conditioning; motivation; electrodes; computer programming

MH-10316 LOGAN, FRANK A., Sch. Arts, Sci., Univ. New Mexico, Albuquerque, N. Mex.
free behavior; conditioning..operant conditioning; drive

MH-10329 ERVIN, FRANK R., Massachusetts Gen. Hosp., Boston, Mass.
learning; electrophysiology; brain..subcortical structures; brain..cerebral cortex; conditioning.. operant conditioning; discrimination; visual stimulus; kinesthesis; primates..Macaca; computer analysis; communication theory

MH-10335 TREICHLER, F. ROBERT, Col. Arts, Sci., Kent State Univ., Kent, Ohio
learning; choice behavior; rewards and nonrewards; reinforcement; primates..Macaca mulatta

MH-10337 VERHAVE, THOM, Col. Liberal Arts, Arizona State Univ., Tempe, Ariz.
choice behavior; reinforcement; conflict; decision--making; psychysics; taste; primates..squirrel monkeys; instrumentation--methodology

MH-10340 McHOSE, JAMES H., Sch. Liberal Arts, Sci., Southern Illinois Univ., Carbondale, Ill.
rewards and nonrewards; deprivation; performance motivation; frustration; reinforcement

MH-10349 MYERS, JAMES S., Johns Hopkins Univ., Baltimore, Md.
aggression; experience; stress; isolation; social space; rewards and nonrewards; brain lesions

MH-10350 BROWN, LARRY T., Col. Educ., Oklahoma State Univ., Stillwater, Okla.
attention; visual perception; form perception; visual fixation; visual stimulus; instrumentation--methodology; primates..squirrel monkeys

MH-10380 ROSENBLUM, LEONRAD A., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
perception; orientation; primates..Macaca radiata; experience; discrimination; training; psychological tests; instrumentation--methodology

MH-10384 CUMMING, WILLIAM W., Fac. Pure Sci., Columbia Univ., New York, N.Y.
stimulus generalization; discrimination; color vision; learning..mediation; learning..reversal learning; attention; reinforcement; cues

MH-10397 REYNOLDS, GEORGE S.,Grad. Sch., Univ. Chicago, Chicago, Ill.
brain lesions; brain..cerebral cortex; conditioning.. operant conditioning; discrimination; rewards and nonrewards; reinforcement

MH-10398 JOHNSON, HAROLD J., Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.
conditioning..internal control; conditioning.. extinction; cognition; autonomic reflexes; heart rate; respiration; arousal; electrostimulus; expectancy; adults

MH-10400 MARTIN, JAMES G., Chico State Col., Chico, Cal.
learning..mediation; learning..association learning; memory--retention; communication; age; children; adults

MH-10435 GUTH, SHERMAN, L., Col Arts, Sci., Indiana Univ., Bloomington, Ind.
conditioning..extinction; conditioning..operant conditioning; reinforcement; audiostimulus; visual stimulus; performance

MH-10447 GOTTSDANKER, ROBERT M., Col. Letters, Sci., Univ. California, Santa Barbara, Cal.
reaction time; perception; sensory feedback; psychophysics; threshold; psychomotor functions; photostimulus; adults; instrumentation--methodology

MH-10449 DORFMAN, DONALD D., San Diego State Col., San Diego, Cal.
stimulus generalization; motivation; response; psychophysiology; perception; audiostimulus; electroshock; reinforcement; anxiety; adults

MH-10462 KAPLAN, STEPHEN, Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
neurohormones; learning; choice behavior; arousal; nerves..synapses; electroshock; galvanic skin response; genetic strains; reinforcement

MH-10463 WAGMAN, WILLIAM, Grad. Sch., Southern Illinois Univ., Carbondale, Ill.
behavior; reinforcement; noise..electrostimulus; conditioning..extinction; conditioning.. avoidance; stimulus generalization

MH-10523 PERETZ, E., Veterans Admin. Hosp., American Lake, Wash.
sex behavior; brain lesions; brain..limbic system; estrogens; vaginal smears

MH-10597 KAPOSTINS, ELI E., Wagner Col., Staten Island, N.Y.
conditioning..extinction; visual stimulus; discrimination; cues; reinforcement

MH-10599 RICE, GEORGE E., Jr., Montana State Col., Bozeman, Mont.
altruism; interpersonal behavior..cooperation; electroshock

MH-10629 GLEITMAN, HENRY, Col. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.
memory--retention; performance; choice behavior; discrimination; training

MH-10649 BROWNSTEIN, AARON J., Arizona State Univ., Tempe, Ariz.
reinforcement; rewards and nonrewards; behavior; electroshock

MH-10663 HILL, WINFRED F., Col. Arts, Sci., Northwestern Univ., Evanston, Ill.
rewards and nonrewards; memory--retention;

MH-10691 FREEMAN, ROBERT B., Jr., Col. Liberal Arts, Pennsylvania State Univ., University Park, Pa.
spatial perception; psychophysics; visual stimulus; visual threshold; vision; discrimination

MH-10692 THOMPSON, MERRELL E., Col. Teacher Educ., New Mexico State Univ., University Park, N. Mex.
learning; conditioning; response; prediction; conflict; visual stimulus

MH-10706 DONAHOE, JOHN W., Col. Arts, Sci., Univ. Kentucky, Lexington, Ky.
response; conditioning..operant conditioning; behavior; reinforcement; stimulus generalization; conflict

MH-10724 ELLIS, NORMAN R., Col. Arts, Sci., Univ. Alabama, University, Ala.
learning..association learning; mental retardation; children; memory--retention; reinforcement; rewards and nonrewards; visual stimulus

MH-10725 WEBER, ROBERT J., Kenyon Col., Gambier, Ohio
learning..mediation; discrimination; learning set; age; children; reinforcement

MH-10730 CHERNETSKI, KENT E., Col. Arts, Sci., Univ. Florida, Gainesville, Fla.
nervous system..autonomic nervous system; nervous system..sympathetic nervous system; nervous system..somatic afferent nerves; arousal; brain..somesthetic sensory area; brain lesions; potentials..action potentials; sympathectomy; nervous system..olfactory nerve; electrophysiology

MH-10731 BROWN, CLINTON C., Johns Hopkins Hosp., Baltimore, Md.
salivation; conditioning; psychophysiology; secretory mechanisms; nervous system..autonomic nervous system; schizophrenia; alcoholism; emotional disturbance

MH-10741 ZIMMERMAN, JOSEPH, Indiana Univ. Med. Ctr., Indianapolis, Ind.
performance; conditioning..extinction; conditioning.. operant conditioning; reinforcement; rewards and non-rewards

MH-10742 GLUCKSBERG, SAM, Princeton Univ., Princeton, N.J.
stimulus; response; problem solving; conditioning..extinction; stimulus generalization; habit; verbal behavior

MH-10751 HERSHENSON, MAURICE, Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.
growth; visual perception; eye accommodation; arousal; infant animals..newborn; infant human..newborn; deprivation; photostimulus; primates..monkeys

MH-10753 HABER, RALPH N., Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.
perception; memory--retention; attitudes; alertness--vigilance; visual threshold; imagery; cognition; coding

MH-10755 MALOTT, RICHARD W., Denison Univ., Granville, Ohio
discrimination; stimulus generalization; conditioning ..extinction; reinforcement; behavior; training; perception

MH-10766 MOOK, DOUGLAS G., Col. Arts, Sci., Univ. Virginia, Charlottesville, Va.
drinking behavior; esophageal fistula; deprivation; potentials..evoked potentials; brain lesions; brain mapping; nervous system..afferent nerves

MH-10768 KORIN, HYMAN, Sch. Eng., Sci., New York Univ., New York, N.Y.
perception; electrostimulus; skin; psychophysiology; threshold; touch; conditioning; reinforcement

MH-10787 LUBAR, JOEL F., Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.
brain lesions; feeding behavior; conditioning.. avoidance; sleep; brain..limbic system; brain.. cingulate gyrus; brain..cerebral cortex; brain.. septum pellucidum; electrostimulus

MH-10799 HUGHES, LAWSON H., Sch. Educ., Indiana Univ., Bloomington, Ind.
discrimination; performance; children..preschool; emotional reactions; conditioning..operant conditioning; reinforcement; rewards and nonrewards; visual stimulus; education..audio--visual aids; error--bias

MH-10801 SCHWARTZBAUM, JEROME S., Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.
behavior; brain..limbic system; brain..amygdala; brain..septum pellucidum; brain..hippocampus; learning..association learning; reinforcement; rewards and nonrewards; brain lesions; parasympatholytic agents; potentials..evoked potentials; electrostimulus; discrimination; heart rate

MH-10846 LONGO, NICHOLAS, Colgate Univ., Hamilton, N.Y.
learning; phylogeny; motivation; deprivation; experimental psychology

MH-10848 ROSNER, BURTON S., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
potentials..evoked potentials; brain..thalamus; brain ..somatosensory cortex; nervous system..cutaneous sensory nerves; brain mapping; brain lesions; schizophrenia; implants; conditioning; electrostimulus

MH-10864 BORN, DAVID G., Col. Letters, Sci., Univ. Utah, Salt Lake City, Utah
learning..overlearning; rewards and nonrewards; reinforcement; stimulus; behavior; motivation; deprivation; training

MH-10876 ANDERSON, D. CHRIS, Menninger Fdn., Topeka, Kans.
conditioning; learning; defense mechanisms; stress; emotional reactions; trauma; electroshock

MH-10882 MURDOCK, BENNET B., Jr., Univ. Missouri, Columbus, Mo.
learning..association learning; memory--retention

MH-10972 WILSON, WILLIAM A., Jr., Grad. Sch., Univ. Connecticut, Storrs, Conn.
brain lesions; sensory mechanisms; motivation; learning; primates..monkeys; electrophysiology; rewards and nonrewards

MH-10997 DEUTSCH, J.A., New York Univ., New York, N.Y.
fear; behavior; self--stimulation; brain..hypothalamus; brain..tegmentum; brain..mammillary bodies; brain lesions

MH-11026 NEIMARK, EDITH D., Douglass Col., Rutgers State Univ., New Brunswick, N.J.
learning..association learning; memory--retention; cognition; coding

MH-11028 ORNE, MARTIN T., Inst. Pennsylvania Hosp., Philadelphia, Pa.
hypnosis; Stanford scale of hypnotic susceptibility; criteria; dreams; behavior; psychophysiology

MH-11030 LINDZEY, GARDNER, Col. Arts, Sci., Univ. Texas, Austin, Tex.
experience; genetic strains; behavior; emotional reactions; learning

MH-11040 VITZ, PAUL C., Stanford Univ., Stanford, Cal.
motivation; visual stimulus; audiostimulus; mathematical models; personality; computer analysis

MH-11062 GARNER, WENDELL R., Fac. Philosophy, Johns Hopkins Univ., Baltimore, Md.
discrimination; visual perception; memory--retention; visual stimulus; learning..association learning; classification; computer analysis; publications; psychometrics

MH-11081 LEVY, LEON H., Grad. Sch., Indiana Univ., Bloomington, Ind.
interpersonal behavior; training; verbal behavior; stimulus generalization; conditioning..operant conditioning; conditioning..extinction; cognition; communication; interviews; adults

MH-11089 WALLACH, HANS, Swarthmore Col., Swarthmore, Pa.
visual perception; eye movements; orientation; eye accommodation; visual fixation; visual fields; training; instrumentation--methodology

MH-11148 SMITH, MONCRIEFF H., Jr., Sch. Arts, Sci., Univ. Washington, Seattle, Wash.
motivation; feeding behavior; thirst; dietary deficiency; sodium; fasting; water--electrolyte balance; appetite

MH-11149 KATAHN, MARTIN, Grad. Sch., Vanderbilt Univ., Nashville, Tenn.
learning..association learning; performance; motivation; anxiety; rewards and nonrewards; habit; attitude; reinforcement; psychological tests; adults

MH-11150 HALAS, EDWARD S., Univ. North Dakota, Grand Forks, N.D.
learning; conditioning; discrimination; brain lesions; brain..thalamocortical tract; brain..thalamic nuclei; electrophysiology; brain mapping; performance

MH-11165 COOPER, LESLIE M., Stanford Univ., Stanford, Cal.
behavior; conditioning..operant conditioning; stimulus; reaction time

MH-11179 BROWN, SAM C., Col. Arts, Sci., Kansas State Univ., Manhattan, Kans.
learning..association learning; stimulus; response; memory--retention; cues

MH-11180 COLE, MICHAEL, Grad. Sch., Yale Univ., New Haven, Conn.
conditioning..avoidance; learning; stimulus; response; electroshock; muscle contraction; head movement

MH-11181 ELFNER, LLOYD F., Col. Arts, Sci., Kent State Univ., Kent, Ohio
hearing..binaural hearing; hearing..auditory discrimination; sound frequency; auditory threshold; visual perception; hearing aids

MH-11183 BABB, HAROLD, Col. Arts, Sci., Montana State Univ., Missoula, Mont.
goal--striving behavior; performance; conflict; conditioning..avoidance; electroshock; thirst; motivation; rewards and nonrewards

MH-11199 HOUSTON, JOHN P., Col. Letters, Sci., Univ. California, Los Angeles, Cal.
learning..association learning; memory--retention; visual stimulus; response; cues; mathematical models

MH-11210 RODWAN, ALBERT S., Grad. Sch., Emory Univ., Atlanta, Ga.
psychophysics; form perception; visual perception; discrimination; sensory mechanisms; mathematical models; children

MH-11231 SCHWARTZ, MARVIN, Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio
potentials..evoked potentials; electrophysiology; conditioning; eyelids; response; learning

MH-11250 WEINBERGER, NORMAN M., Grad. Sch., Univ. California, Irvine, Cal.
electrophysiology; habituation; behavior; potentials..evoked potentials; brain mapping; brain lesions; drive; nervous system..central nervous system; brain..somesthetic sensory area

MH-11255 MILLWARD, RICHARD B., Grad. Sch., Brown Univ., Providence, R.I.
learning; rewards and nonrewards; prediction; choice behavior; memory--retention; visual stimulus; computer programming

MH-11260 HOPKINS, B.L., Col. Arts, Sci., Florida State Univ., Tallahassee, Fla.
learning..association learning; memory--retention; reinforcement; rewards and nonrewards; visual stimulus; audiostimulus

MH-11262 GARDNER, R. ALLEN, Col. Arts, Sci., Univ. Nevada, Reno, Nev.
behavior; conditioning..extinction; conditioning; drive; rewards and nonrewards; reinforcement; instrumentation--methodology

MH-11281 GRIMSLEY, DOUGLAS L., Col. Arts, Sci., Florida State Univ., Tallahassee, Fla.
behavior; thirst; saline solutions; water--electrolyte balance; computer analysis

MH-11282 NODINE, CALVIN F., Col. Arts, Sci., Miami Univ., Oxford, Ohio
learning..association learning; visual stimulus; response; reinforcement; semantics..language

MH-11283 HAYGOOD, ROBERT C., Col. Arts, Sci., Kansas State Univ., Manhattan, Kans.
concept; learning; identification; thinking; psychometrics; instrumentation--methodology; logic

MH-11633 RENNER, KENNETH E., Univ. Illinois, Urbana, Ill.
conflict; learning; choice behavior; conditioning..extinction; rewards and nonrewards; reinforcement; drive; cues

MH-11792 BINDER, ARNOLD, Grad. Sch., New York Univ., New York, N.Y.
learning; cues; conflict; discrimination; concept; mental retardation; reaction time

MH-11834 FOX, STEPHEN S., Col. Liberal Arts, State Univ. Iowa, Iowa City, Iowa
sensory mechanisms; potentials..slow potentials; stimulus; direct cortical response; conditioning; computer programming

EXPERIMENTAL PSYCHOLOGY (CONTD)

MH-11872 **WEISS, ROBERT F., Queens Col., City Univ. New York, Flushing, N.Y.**
conditioning..operant conditioning; conditioning..avoidance; discrimination; learning; computer analysis; drive; rewards and nonrewards; response

MH-11896 **PEASTREL, AUGUST L., Norristown State Hosp., Norristown, Pa.**
stimulus generalization; conditioning..verbal conditioning; stress; reaction time; muscle tension; training; semantics..language; prediction; psychological tests; reinforcement; electrostimulus

MH-11930 **PREMACK, DAVID, Sch. Arts, Sci., Univ. California, Santa Barbara, Cal.**
reinforcement; response; behavior; primates..Cebus monkeys; conditioning..operant conditioning

NB-02131 **ROBERTS, LEMAR, Col. Med., Univ. Florida, Gainesville, Fla.**
brain..cerebral cortex; brain lesions; electrostimulus; instrumentation; discrimination; learning; performance; primates..squirrel monkeys

NB-02831 **MILNER, BRENDA, McGill Univ., Montreal, Canada**
behavior; brain..cerebral cortex; brain damage; learning; memory-retention; neurosurgery; perception

NB-02992 **KENSHALO, DAN R., Florida State Univ., Tallahassee, Fla.**
caloric stimulation; threshold; skin; pleasure-displeasure; conditioning; electrophysiology; thermoreception; nervous system..cutaneous sensory nerves

NB-03469 **EPSTEIN, ALAN N., Sch. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.**
body weight; brain..hypothalamus; brain damage; feeding behavior; hunger; sensory mechanisms; thirst

NB-03528 **SCHWARTZ, ARTHUR S., Barrow Neurological Inst., Phoenix, Ariz.**
vision tests..flicker fusion; visual threshold; discrimination; brain lesions; electrophysiology

NB-04177 **HAHN, JOHN F., Sch. Arts, Sci., Univ. Virginia, Charlottesville, Va.**
skin; perception; mechanical vibrations; electrostimulus; psychophysics; communication; nervous system.. cutaneous sensory nerves

NB-04870 **NOLAN, CARSON Y., American Printing House for Blind, Louisville, Ky.**
aural reading devices; blindness; braille; children; communication; education..elementary education; education ..secondary education; reading

NB-05174 **BACHRACH, ARTHUR J., Barrow Neurological Inst., St. Joseph's Hosp., Phoenix, Ariz.**
epilepsy; consciousness; children; reaction time; behavior; nerve impulse transmission

NB-05395 **BATTERSBY, WILLIAM S., Queens Col. City Univ. New York, Flushing, N.Y.**
brain..visual cortex; brain..thalamic nuclei; brain..geniculate body lateral; potentials..evoked potentials; nerve impulse transmission; psychophysics; visual threshold; tetany; photostimulus; interocular transfer; vision tests

NB-05577 **CRATTY, BRYANT J., Col. Letters, Sci., Univ. California, Los Angeles, Cal.**
perception; threshold; blindness; body movement; sensory mechanisms; psychophysics; children; adults

NB-05848 **GUNTER, RALPH, Sch. Med., Loma Linda Univ., Los Angeles, Cal.**
color vision; primates; species; color blindness; genetics; sex difference

RH-00068 **GARCIA, JOHN, Veterans Admin. Hosp., Long Beach, Cal.**
radiation hazards; ionizing radiation; conditioning; behavior; nervous system..olfactory nerve; adrenal cortex hormones

GENERAL MEDICAL RESEARCH PROGRAM-PROJECT COMMITTEE

FR-00277 **WOODS, L.A., Col. Med., State Univ. Iowa, Iowa City, Iowa**
research programs; research facilities; toxicology; pharmacology; insecticides; hepatotoxins; nephrotoxins; drugs; embryology; pregnancy..placental transfer; infant animals; primates..monkeys; liver function; renal function; cell components..microsomes

GM-09069 **PAPPER, EMANUEL M., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
research programs; anesthesia; acid-base equilibrium; respiration; muscle relaxants; hypothermia; digitalis; barbiturates; pregnancy..childbirth; nerve impulse transmission; therapy; cancer; mortality; arrhythmia (cardiac)

GM-09370 **DRIPPS, ROBERT D., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
research programs; anesthesia; blood circulation dynamics; respiration; acid--base equilibrium; hypercapnia; body temperature; muscle relaxants; arrhythmia, cardiac..ventricular fibrillation; hyperpnea;

GM-09228 **HIATT, ROBERT W., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii**
biology; geographical sites..Hawaii; marine biology; public health; research programs

GM-09252 **NEEL, JAMES V., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
research programs; genetics; hemoglobin; isozymes; deoxyribonucleic acid; viruses..prophage; viruses.. bacteriophage; cell components..cell nucleus; proteins; cell--free systems

GM-09996 **SAUNDERS, JOHN W., Jr., Marquette Univ., Milwaukee, Wis.**
research programs; cell biology; embryology, genetics; immunology; radiation sensitivity; bacteriology; cytology

GM-10210 **BENIRSCHKE, KURT, Dartmouth Med. Sch., Hanover, N.H.**
research programs; congenital abnormalities; embryology; pregnancy..implantation; chorionic gonadotropins; trophoblast; pregnancy..placenta; histocompatibility; pregnancy..placental transfer; proteins; viruses; genetics.. chromosomes; hospitals patients; nervous system disorders; mental disorders; family; toxoplasmosis; education..medical education

GM-10383 **SZENT-GYORGYI, ALBERT, Inst. Muscle Res., Woods Hole, Mass.**
research programs; muscle; chemical structure; molecular structure; muscle contraction; electron transport; meromyosin; thymus; hormones; neuromuscular disorders

GM-10402 **IRVING, LAURENCE, Sch. Res., Adv. Study, Univ. Alaska, College, Alaska**
blood proteins; cold; environment; hibernation; migratory (animals); nerve impulse transmission; peripheral vascular system; physiology; poikilotherms; research programs; sensory mechanisms; skin; thermoregulation

GM-10403 **LAUFFER, MAX A., Sch. Natural Sci., Univ. Pittsburgh, Pittsburgh, Pa.**
research programs; molecular structure; polymerization; proteins; ribonucleic acid; viruses..tobacco mosaic virus; water; formaldehyde; reaction sites; viruses.. influenza viruses; blood cells..erythrocytes; adsorption; polynucleotides; deoxyribonucleic acid; viruses.. bacteriophage T; virus inhibitors; viruses..incomplete viruses; algae..blue--green algae

GM-10521 **SCHOLANDER, PER F., Univ. California, San Diego, La Jolla, Cal.**
research program; marine biology; cardiovascular system; thermoregulation; instrumentation--methodology; photosynthesis; algae; deep--sea diving; respiration; kidney function; sensory mechanisms

GM-10548 **WAGNER, HENRY N., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.**
research programs; instrumentation; instrumentation--methodology; radiation therapy; diagnostic tests; organic compounds; synthesis; chemotherapy; autofluorography; neutron activation analysis (unspecified); trace elements; radioautography; chemical structure--biological activity; radiolabeled; scintillation spectrometry; scintillation scanner; scintillation camera; scintillation counters..whole body scintillation counters; radiation counters

GM-10802 **BEERS, ROLAND F., Jr., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.**
research programs; nucleic acids; enzymes; radiation effects; synthesis; enzymes inhibitors; solvents..nonaqueous solvents; polymers; magnesium; fluorescent dyes; chemical structure; instrumentation--methodology; tissue culture; genetics..polyploidy; genetics..chromosomes; genetics..trisomy; mutations; neoplasms; blood cells..plasma cells; inflammation; bone; mathematical models; adsorption; ion exchange and transport; calcium; phosphorus

GM-10890 **AUGENSTEIN, LEROY G., Grad. Sch., Michigan State Univ., East Lansing, Mich.**
research programs; molecular biology; molecular structure; molecular rearrangement; chemical structure--biological activity; photoconduction; nervous system; electrophysiology; communication theory; mental processes; learning; electrical fields

GM-10895 **TALBOT, SAMUEL A., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
research programs; biomedical engineering; instrumentation; mathematical models; education..postgraduate education; computer analysis; electronic recording; spectrosonography (heart); ballistocardiography; blood flow.. oscillatory blood flow; computer diagnosis; electrocardiography; brain..auditory cortex; hearing..auditory discrimination; monitoring; muscle stress; coding

GM-11301 **HORECKER, BERNARD L., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.**
research programs; amino acid sequence; aldolases; reaction sites; binding; enzymes; bacteria..Salmonella typhimurium; bacteria..Escherichia coli; cell components.. cell wall; lipopolysaccharides; radiolabeled carbon; chemical structure--biological activity; ribonucleic acid; transformation; viruses..bacteriophage; immunology.. antigens; mutations; carbohydrates

GM-11546 **COCKERHAM, C. CLARK,** Inst. Biological Sciences, North Carolina State College, Raleigh, N. C.
computer analysis; environment; genetics..chromosomes; genetics..crossing over; genetics..hybrids; genetics..gene interaction; genetics..population genetics, animal; genetics ..population genetics, plants; genetics..recombination; mathematical models, morbidity; mutations; phylogeny; plants; prediction; research programs

GM-11603 **DANIELLI, JAMES F.,** Sch. Pharm., State Univ. New York, Buffalo, N.Y.
research programs; molecular biology; cell components.. cytoplasm; protozoa..Amoeba; drugs hypersensitivity; cell age; growth, microorganisms; genetics..genetic coding; molecular films; cell components..organelles; molecules..macromolecules; cold; membrane permeability and transport; blood cells..erythrocytes; cell components.. lysosomes; sympatholytic agents; synthesis; binding; adrenergic receptors; reaction sites; nucleases.. ribonucleases; carbohydrases..lysozyme; amino acid sequence; alkylating agents; enzymes

GM-11609 **STONE, WILSON S.,** Grad. Sch., Univ. Texas, Austin, Tex.
cell division..meiosis; computer analysis; corn; Drosophila; electron microscopy; genetics..chromosomes; genetics..genetic coding; genetics..population genetics (animal); microorganisms; mutagens; phylogeny; radiation effects; radiation fallout; research programs; taxonomy; viruses

GM-12027 **SINGER, S.J.,** Sch. Sci., Eng., Univ. California, La Jolla, Cal.
research programs; laboratory facilities; cell biology; genetics; bioenergetics; photochemistry; immunology.. antibodies; phosphorylation; molecular structure; molecules..macromolecules; nucleic acids; heme-proteins; high energy compounds; x-ray diffraction; fungi.. Neurospora crassa; bacteria..photosynthetic bacteria; viruses..bacteriophage lambda

GM-12202 **CHANCE, BRITTON,** Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
research programs; bioenergetics; cell components.. mitochondria; cell components..chloroplasts; chromatophores; oxidative phosphorylation; electron transport; ion..cation; membrane permeability and transport; photochemistry; photosynthesis; high energy compounds; cytochrome; NAD; enzymes; enzyme substrate complex; chemical structure--biological activity; reaction sites; plants; bacteria..photosynthetic bacteria; algae; instrumentation-methodology; computer analysis; lasers; reaction rates, chemistry..fast reactions; single cell analysis; ascites tumors; nerves..neurons; brain; liver; liver ischemia and hypoxia; fatty acids; spermatocytes; muscle contraction heart..myocardium; adrenal glands; thyroid hormones; epinephrine; barbiturates; blood coagulation..anticoagulants; vasoactive agents..vasodilators; hypoglycemic agents; antibiotics; bacteria..Chromatium; bacteria.. Rhodopseudomonas spheroides; bacteria..Chlorobrium thiosulfatophilum; bacteria..Chromogenic bacteria; chromatography; scintillation counters; nuclear magnetic resonance; temperature-jump method; fluorophotometry; spectrometry; radiolabeled carbon; radiolabeled phosphorus; radiolabeled magnesium; tritium

GM-12302 **BADGER, GEORGE F.,** University Hosp., Cleveland, Ohio
computer centers; medical personnel; training; medical electronics; statistics; documentation systems

GM-12323 **WAGNER, ROBERT P.,** Grad. Sch. Arts., Sci., Univ. Texas, Austin, Texas
research programs; isoleucine; valine; proteins; cell components..mitochondria; genetic mapping; genetics..chromosomes; genetics..chromosome replication; genetics..recombination; genetics.. lethals; deoxyribonucleic acid replication; mutation; fungi..Neurospora; fungi..Eremothecium ashbyii; Drosophila pseudoobscura; algae.. blue--green algae; coelenterates; hemiptera; cell differentiation; pigments; pteridines; synthesis; xanthines; photochemistry; oogenesis; phermones; hydroxylases, kynurenine hydroxylase

GM-12524 **GLASER, DONALD A.,** Univ. California, Berkeley, Cal.
research programs; bacteria; growth, microorganisms; life cycle; deoxyribonucleic acid; ribonucleic acid; enzymes; proteins; cyclic functions; genetics, gene interaction

GM-12527 **BUNKER, JOHN P.,** Sch. Med., Stanford Univ., Stanford, Cal.
research programs; anesthetics; dosage; toxicology; drugs interaction; drugs receptors; reaction sites; therapy evaluation; respiratory system; nervous system; blood circulation dynamics; membrane permeability and transport; membrane models; cell components..cell membrane; ion exchange and transport; ballistocardiography; biomathematics; instrumentation--methodology; neostigmine; curare; bromochlorotrifluoroethane; barbiturates; alkaloids; gas chromatography

GM-12535 **STICKEL, DELFORD L.,** Duke Univ. Med. Cr., Durham, N.C.
research programs; histocompatibility; kidney transplantation; transplantation..homotransplantation; transplantation..organ transplantation; immunology.. isoantigens; immunology..isoantibodies; renal hypertension; kidney disorders; hemodialysis; diet; immunological tests; blood cells..leukocytes; blood cells..lymphocytes; immune sera; kidney function; longitudinal study

GM-12675 **WOODS, L.A.,** Col. Med., Univ. Iowa, Iowa City, Iowa
research programs; drugs; pesticides; toxicology; pregnancy..placenta; embryology; infant animals; primates..monkeys; liver function; kidney function; liver; blood cells; hemotoxins; nephrotoxins

GM-12847 **GREEN, DAVID E.,** Grad. Sch., Univ. Wisconsin, Madison, Wis.
research programs; molecular biology; cell components ..mitochondrial membrane; molecular energy levels; molecular structure; oxidative phosphorylation; ion exchange and transport; stoichiometry; proteins contraction; phospholipids; metallo--proteins; enzymes; blood cells..thrombocytes; adenosine triphosphate; micelle formation (chemistry) Krebs cycle; cytochrome A; cytochrome C

GM-12883 **GRAFF, SAMUEL,** Col. Phys., Surg., Columbia Univ., New York, N.Y.
research programs; cell biology; cell culture; population dynamics, cell; instrumentation--methodology; biological compounds preparation; biomedical engineering; tissue preservation; interferon; epithelium; bone marrow; nutrients; glucose; amino acids; glutamine; fatty acids; blood.. serum; hormones; serotonin; antibiotics..antinomycin; antibiotics..puromycin; blood cells..lymphocytes; erythropoietin; environment; oxygen tension; carbon dioxide tension; mathematical models

GM-13244 **GLASER, DONALD A.,** Univ. California, Berkeley, Cal.
research programs; instrumentation--methodology; laboratory facilities; computer analysis; flying spot microscopy; growth, microorganisms; mutations; genetics; microbial culture; classification; documentation systems; microorganisms; diagnostic tests; television microscopy

HD-00675 **McCAMMON, ROBERT W.,** Child Research Council, Denver, Colo.
adults; biometry; children; infants, human; life cycle; longitudinal study; psychometrics; research programs; statistics

GENERAL MEDICINE

AI-02093 **SHERMAN, WILLIAM B.,** Roosevelt Hosp., New York, N.Y.
carbohydrases..beta glucuronidase; contact dermatitis; dehydrogenases..succinate dehydrogenase; histamine; injury; lymphatic tissue; oxidases..amine oxidase; passive sensitization transfer factor; phosphomonoesterases..acid phosphatase; phosphomonoesterase..5-nucleotidase; proteases..leucine aminopeptidase; reaction sites; sulfatases ..arylsulfatases; tuberculin hypersensitivity

AI-02272 **SILTZBACH, LOUIS E.,** Mount Sinai Hosp., N.Y.C.
diagnostic tests; fractionation; Kveim factor; sarcoidosis; skin tests; tissue

AI-03379 **LINDELL, SVAN ERIC,** Sahlgren's Hosp., Gothenburg, Sweden
histamine; kidney disorders; liver diseases; cardiovascular system; stomach..gastric juice; decarboxylases.. histidine decarboxylase; radiolabeled carbon

AI-06416 **BLAYLOCK, W. KENNETH,** Med. Col. Virginia, Richmond, Va.
dermatitis; disease classification; epidemiology; immunology..antigens; beta globulins; cell types; skin; vaccines; hypersensitivity..delayed hypersensitivity

AI-06449 **LOWNEY, EDMUND D.,** Sch. Med., Univ. Michigan, Ann Arbor, Mich.
proteases; histamine; enzyme inhibitors; skin; amino acid analogs; pruritus; inflammation; anti--inflammatory agents; antihistamines

AM-00044 **HEYMANN, WALTER,** Sch. Med., Western Reserve Univ., Cleveland, Ohio
nephrotic syndrome; immunity..autoimmunity; nephrotoxins; 6--dimethylamino--9--(3'--amino--3'--deoxy--β--D--ribofuranosyl) --purine; trimethadione; antibiotics, puromycin; nephritis

AM-00693 **ORTEN, ALINE U.,** Sch. Med., Wayne State Univ., Detroit, Mich.
intestinal absorption; intestines..ileum; amino acids; sugars; mucus; intestinal fistula; psychophysiology; chemical structure; intestinal motility

AM-00713 **CAREY, JAMES B., Jr.,** Univ. Minnesota Med. Sch., Minneapolis, Minn.
bile acids and salts; cholesterol; jaundice; ion exchange resins; cholesterol inhibitors; pruritus; feces

AM-00888 **CONN, JEROME W.,** Sch. Med., Univ. Michigan, Ann Arbor, Mich.
diabetes; longitudinal study; carbohydrates; preventive medicine

AM-00910 **CARBONE, JOHN V.,** Sch. Med., Univ. California, San Francisco, Cal.
deoxyribonucleic acid; intestinal resection; cell division ..mitosis; intestines..ileum; epithelium; tritium; thymidine; oxygen consumption; infant animals

AM-01191 **RAGAN, CHARLES,** Bellevue Hosp., N.Y.C.
arthritis..rheumatoid arthritis; bone; calcium; children; cytology; fibroblasts; gold; lupus erythematosus.. systemic lupus erythematosus; minerals; mucopolysaccharides; rheumatoid factors; serology; social psychology

(contd)

GENERAL MEDICINE (CONTD)

AM-01229 EPSTEIN, WALLACE V., Sch. Med., Univ. California, San Francisco, Cal.
arthritis..rheumatoid arthritis; blood cells..erythrocytes; chemical structure--biological activity; gamma globulin; genetics; immunological tests; immunology..autoantibodies; immunology..isoantibodies; immunology..Rh antibodies; lymph nodes; rheumatoid factors

AM-01251 KERBY, GRACE P., Sch. Med., Duke Univ., Durham, N.C.
arthritis..rheumatoid arthritis; blood..plasma; blood cells.. thrombocytes; blood coagulation..fibrinolysis; chelation; globulins; inflammation; ion..cation; membrane permeability; mucopolysaccharides; proteases; serotonin

AM-01531 GOLDSMITH, RICHARD E., Cincinnati Gen. Hosp., Cincinnati, Ohio
body weight; instrumentation; body water loss..insensible water loss; diagnostic tests; basal metabolism; growth; children; thyroid gland disorders; metabolic diseases

AM-01943 KATZKA, IRWIN, Long Island Jewish Hosp., New Hyde Park, N.Y.
chemical structure--biological activity; gastrin inhibitors; proteins; stomach..gastric juice

AM-01947 WOLF, STEWART, Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
stomach..gastric juice; stomach..gastric juice inhibitors; chemical structure; nitrogen; carbohydrates; sulfur; fractionation

AM-01992 HAVERBACK, BERNARD J., Sch. Med., Univ. Southern California, Los Angeles, Cal.
gastrointestinal system; serotonin; histamine; brain; enzyme inhibitors..decarboxylases inhibitors; amine; enzyme inhibitors..oxidase inhibitors; enteritis; colitis.. ulcerative colitis; sprue; peptic ulcer; gastrin; bradykinin; substance P, polypeptide; secretin; chemical structure--biological activity

AM-02001 BUSE, JOHN F., Jr., Med. Col. South Carolina, Charleston, S.C.
insulin; glucose; diaphragm; exercise; fasting; hormones; hydrogen-ion concentration; Krebs cycle; radiolabeled; tissue; insulin inhibitors; nerves.. denervation

AM-02015 CODE, CHARLES F., Mayo Assn., Rochester, Minn.
cineradiography; electrophysiology; gastrointestinal motility; intestines..rectal sphincters; longitudinal study

AM-02037 DAMESHEK, WILLIAM, New England Cr. Hosp., Boston, Mass.
antimetabolites; blood proteins..serum proteins; hemolytic anemia; lupus erythematosus..systemic lupus erythematosus; runt disease; serology; splenectomy; thrombocytopenic purpura

AM-02046 WELSH, JACK D., Sch. Med., Univ. Oklahoma, Okla. City, Okla.
cardiovascular system; drugs; electronic recording; gastrointestinal disorders; gastrointestinal surgery; intestinal motility; intestines..colon; intestines..small intestine; mucous membrane; stress; thermochiles

AM-02071 ZIFF, MORRIS, Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
arthritis..rheumatoid arthritis; connective tissue diseases; hypersensitivity..delayed hypersensitivity; immunology.. antibodies; lymph nodes; proteins

AM-02133 KIRSNER, JOSEPH B., Sch. Med., Univ. Chicago, Chicago, Ill.
colitis..ulcerative colitis; longitudinal study; gastrointestinal disorders; endotoxins; cytology; liver; adrenal cortex hormones; children; immunology

AM-02244 FAJANS, STEFAN S., Univ. Hosp., Ann Arbor, Mich.
islands of Langerhans adenoma; leucine; hypoglycemia; islands of Langerhans; insulin; tolbutamide; diagnostic tests; growth hormones; carbohydrates; amino acids; benzothiadiazines

AM-02272 JONES, RUSSELL S., Sch. Med., Univ. Utah, Salt Lake City, Utah
adrenal cortex hormones; bile acids and salts; gallstones; bacteria..Klebsiella pneumoniae; polysaccharides; cholesterol; sterols; non--polar molecules; solubility; cholanic acids; conjugates

AM-02290 HOLLANDER, FRANKLIN, Mount Sinai Hosp., New York, N.Y.
stomach..gastric juice; potassium; Ussing chamber; dehydratases..carbonic anhydrase; electrolytes; acid--base equilibrium

AM-02344 EVERETT, MARK A., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
photosensitivity; keratinization; ultraviolet rays; skin; erythema

AM-02354 HENEGAR, GEORGE C., Northwestern Univ., Chicago, Ill.
acidosis; alkalosis; blood cells..erythrocytes; blood vessels shunts..portacaval shunt; body composition; cardiac glycosides; cell components..cell membrane; electrolytes; hypokalemia; potassium; radiolabeled potassium; radiolabeled rubidium; radiolabeled sodium

AM-02443 VAUGHAN, JOHN H., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
binding; bis-diazotized benzidines; family; gamma globulin; rheumatoid factors; urine

AM-02469 FELSHAR, ZACHARY, Sch. Med., Northwestern Univ., Chicago, Ill.
collagen; skin diseases; temperature; elastic tissue; aging; amino acids; molecular structure; tissue contraction

AM-02471 SCHMID, FRANK R., Sch. Med., Northwestern Univ., Evanston, Ill.
arthritis..rheumatoid arthritis; family; serology; latex particles; gamma globulin; blood proteins..serum proteins; immunological tests; rheumatoid factors

AM-02471 JOHNSON, ELOISE E., Sch. Med., Northwestern Univ., Evanston, Ill.
arthritis..rheumatoid arthritis; family; serology; latex particles; gamma globulin; blood proteins..serum proteins; immunological tests; rheumatoid factors

AM-02472 MAGEE, DONAL F., Sch. Med., Univ. Washington, Seattle, Wash.
pancreatic function; nerves..innervation; intestines.. duodenum; nervous system..parasympathetic nervous system; atropine; secretin; pancreozymin; bicarbonates

AM-02523 GRIESEMER, ROBERT D., Massachusetts Gen. Hosp., Boston, Mass.
cholesterol; cholesterol inhibitors; fatty acids; heart diseases; lipids; radiolabeled carbon; skin; unsaturated fatty acids

AM-02534 CLIFTON, JAMES A., Col. Med., State Univ. Iowa, Iowa City, Iowa
glucose; intestinal absorption; intestines..small intestines; malabsorption syndromes; steroids

AM-02547 PATTERSON, JAMES F., New England Cr. Hosp., Boston, Mass.
lipids; cholesterol; liver; intestines; fatty acids; n--caprylic acid; liver cirrhosis; intestinal absorption

AM-02651 TEXTER, E. CLINTON, Jr., Sch. Med., Northwestern Univ., Chicago, Ill.
blood flow; blood vessels; diaphragmatic hernia; esophagus..cardiac sphincter; esophagus..intraesophageal pressure; esophagus motility; gastric pyrosis; instrumentation; intestinal motility; mesentery; vasoactive agents

AM-02662 MICHIE, ALEXANDER J., Sch. Med., Children's Hosp., Philadelphia, Pa.
calcium; calcium phosphate; children; diet; ion; kidney circulation; kidney function; parathyroid hormones; phosphates

AM-02727 RODNAN, GERALD P., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
kidney..renal tubular transport; uric acid; proteins; gout; probenecid; lactates; hyperuricemia; pyrazinamide; kidney disorders; diet; ethanol; blood cells.. erythrocytes

AM-02804 WIRTS, C.W., Jefferson Med. Col., Philadelphia, Pa.
gastrectomy; steatorrhea; bacteria; intestinal absorption; fats; pancreas; enzymes; bile acids and salts; intestines ..duodenum

AM-02856 DISCHE, ZACHARIS, Col. Phys., Surg., Columbia Univ., New York, N.Y.
pancreatic cystic fibrosis; mucus; chemical structure; body fluids; immunology

AM-02987 GIBBS, GORDON E., Col. Med., Univ. Nebraska, Omaha, Nebr.
cataract; diabetes..alloxan diabetes; diet; dwarfism; fats; glomerulosclerosis; insulin; primates..monkeys; vascular disorders

AM-03026 WAGER, ODD A., Univ. Helsinki, Helsinki, Finland
arthritis..rheumatoid arthritis; collagen diseases; immunology..antibodies; immunology..antigens; rheumatoid factors; serology

AM-03037 DEVOR, ARTHUR W., Ohio State Univ., Columbus, Ohio
urine; hospitals patients; continuous flow electrophoresis; solubility; chemical structure; carbohydrates; nitrogen; uronic acids; amino sugars; diabetes; cancer; proteinuria; paper electrophoresis; alcoholism

AM-03069 BOSHELL, BURIS R., Univ. Alabama Med. Cr., Birmingham, Ala.
diabetes..alloxan; bacteria..Proteus; bacteria..Streptococcus faecalis; dietary deficiency; magnesium; potassium; oreganacy; pyeloneophritis

AM-03075 DUBOIS, EDMUND L., Sch. Med., Univ. Southern California, Los Angeles, Cal.
antimalarials; arthritis..rheumatoid arthritis; cytology; immunology; longitudinal study; lupus erythematosus.. discoid lupus erythematosus; lupus erythematosus.. systemic lupus erythematosus; nitrogen mustards; steroids; therapy evaluation

AM-03228 WARNER, RICHARD R.P., Mt. Sinai Hosp., New York, N.Y.
serotonin; gastrointestinal disorders; therapy; diagnostic tests; carcinoid; indoles; malabsorption syndromes tryptophan; 5--hydroxyindole acetic acid adenoma; lung neoplasms

AM-03247 FERGUSON, DONALD J., Sch. Med., Univ. Chicago, Chicago, Illinois
adrenal cortex hormones; gastrointestinal system; mucous membrane; peptic ulcer; gastric pouch; histamine; gastroenterostomy; vagotomy; pyloroplasty; stomach..gastric juice

AM-03250 BERGREN, WILLIAM R., Children's Hosp., Los Angeles, Cal.
acetycholine; cholinesterases; genetics; pancreatic cystic fibrosis; transacylases..choline transacylase

AM-03252 **MAINLAND, DONALD,** New York Med. Cr., N.Y.C.
arthritis..rheumatoid arthritis; cooperative study; therapy evaluation; biometry

AM-03432 **DAVIDSON, MURRAY,** Bronx Hosp., Bronx, N.Y.
body water; children; constipation; diarrhea; electrolytes; feces; gastrointestinal disorders; gastrointestinal motility; intestinal absorption; nutrients

AM-03476 **JACKSON, ROBERT L.,** Sch. Med., Univ. Missouri, Columbia, Mo.
body composition; body weight; children..preschool; diabetes; glucose tolerance; infants (human)..newborn; insulin; lipids; tolbutamide

AM-03556 **IZZO, JOSEPH L.,** Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
amino acid; adrenalectomy; adrenal glands; carbohydrates; electrolytes; glucagon; growth hormones; hydrocortisone; hypophysectomy; insulin; nitrogen; pituitary gland; proteins; radiolabeled iodine

AM-03560 **INGELFINGER, FRANZ J.,** Massachusetts Mem. Hosp., Boston, Mass.
gastrointestinal disorders; research programs; esophagus motility; intestines..colon; therapy; pharmacology; intestines..small intestine; intestinal absorption; water--electrolyte balance; carbohydrates

AM-03761 **BARBERO, GIULIO J.,** Children's Hosp., Philadelphia, Pa.
intestinal motility; children; sleep; stress; intestines.. anal sphincters; diarrhea

AM-03778 **BUCKWALTER, JOSEPH A.,** University Hospitals, Iowa City, Iowa
blood groups; carbohydrates; immunology; mucopolysaccharides; mucoproteins; peptic ulcer; pernicious anemia; stomach..gastric juice; stomach neoplasms

AM-03793 **URIST, MARSHALL R.,** Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
radiolabeled strontium; osteoporosis; bone; calcium; sex hormones; fluorides; exercise; vitamin A; pituitary; therapy evaluation; arthritis..osteoarthritis; aging; bone disorders; sex difference; autopsy; calcification

AM-03889 **DREILING, DAVID A.,** Mt. Sinai Hosp., N.Y.C.
stop flow technique; water-electrolyte balance; pancreas; immunity..autoimmunity

AM-03894 **KNOEBEL, LEON K.,** Indiana Univ. Med. Cr., Indianapolis, Ind.
intestinal absorption; lipids; mucous membrane; bile; pancreatic juice; diet; triglycerides; oleic acid

AM-03923 **MELLORS, ROBERT C.,** Hosp. Special Surg., N.Y.C.
arthritis..rheumatoid arthritis; immunofluorescence; inflammation; rheumatoid factors; serology; synovial membranes

AM-03964 **FUSARO, RAMON M.,** Sch. Med., Univ. Minnesota, Minneapolis, Minn.
diagnostic tests; glucose tolerance; skin diseases; carbohydrates metabolism disorders; psoriasis; diabetes; insulin

AM-03986 **TOMASI, THOMAS B., Jr.,** Sch. Med., Univ. Vermont, Burlington, Vt.
rheumatoid factor; molecules..macromolecules; optical rotatory dispersion; saliva; ultracentrifugation; chromatography; electrophoresis; chemical structure--biological activity; immunology..antibodies; macroglobulins

AM-04011 **WHEELER, HENRY O.,** Sch. Phys., Surg., Columbia Univ., N.Y.C.
bile; taurocholate; electrolytes; acetazolamide; pituitary hormones; blood flow; gallbladder; membrane permeability and transport; potentials..membrane potentials; liver circulation

AM-04014 **JOHNSON, BEN B.,** Sch. Med., Univ. Mississippi Med. Cr., Jackson, Miss.
sodium; diuresis; steroids; hydrocortisone; deoxycorticosterone; diuretics; proteases..renin

AM-04066 **HOUCK, JOHN C.,** Children's Hosp. Res. Fdn., Washington, D.C.
collagen; hormones; age; hydrocortisone; deoxycorticosterone; connective tissue; skin

AM-04101 **LYNCH, FRANCIS W.,** Univ. Minnesota Hosp., Minneapolis, Minn.
age; sex difference; skin; glycine; cortisone; testosterone; estrogens; collagen..pro--collagen; mucopolysaccharides; connective tissue diseases; dexamethasone

AM-04157 **IBER, FRANK L.,** Sch. Med., Johns Hopkins Univ., Baltimore, Md.
portal hypertension; spleen; ascites; esophageal varices; blood collateral circulation; blood flow; sarcoidosis; liver; liver cirrhosis; kidney..renal tubular transport; bromsulphalein; blood vessels shunts..portacaval shunt; lymphatic collateral circulation; sodium

AM-04197 **DENNING, CAROLYN R.,** Col. Phys., Surg., Columbia Univ., New York, N.Y.
peptic ulcer; pancreatic cystic fibrosis; eye disorders; chloramphenicol; toxicology; pulmonary heart disease; intestines..duodenal juice; secretin; pancreozymin; hypertrophic pulmonary osteoarthropathy; albumins

AM-04236 **MADISON, LEONARD L.,** Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
blood vessels shunts..portacaval shunt; glucose; blood flow; radiolabeled carbon; insulin; acidosis; alkalosis; diabetes; liver; islands of Langerhans..beta cells; ketones

AM-04247 **HOWARD, JOHN E.,** Sch. Med., Johns Hopkins Univ., Baltimore, Md.
osteoporosis; bone; therapy; urinary calculi; cartilage; rickets; renal ischemia and hypoxia; renal hypertension; blood; veins

AM-04267 **SHERLOCK, SHEILA,** Royal Free Hosp. Sch. Med., Univ. London, London, England
amine; liver diseases; intestines; proteins; bacteria.. enterobacteria; hepatotoxins; radiolabeled carbon

AM-04399 **PACE, WILLIAM G.,** Ohio State Univ. Hosp., Columbus, Ohio
parathyroid hormones; pancreatitis; hypercalcemia; pancreas hormones; pancreas; calcium; bile; phosphorus; creatinine

AM-04486 **LEVER, WALTER F.,** Sch. Med., Tufts Univ., Boston, Mass.
lipids; hyperlipemia; lipoproteins..plasma lipoproteins; lipolysis; chylomicrons; liver; adipose tissue

AM-04487 **OBERHELMAN, HARRY A., Jr.,** Sch. Med., Stanford Univ., Palo Alto, Cal.
peptic ulcer; stomach..gastric juice; gastrin; therapy; intestines..duodenum neoplasms; pancreas neoplasms; gastrointestinal motility

AM-04488 **STREETEN, DAVID H.P.,** State Univ. New York, Syracuse, N.Y.
sodium; body water; edema (generalized); aldosterone; adrenal glands disorders; kidney function; posture; oliguria; angiotensin; endothelium permeability; capillaries

AM-04499 **BLIZZARD, ROBERT M.,** Johns Hopkins Hosp., Baltimore, Md.
adrenal glands; congenital abnormalities; dwarfism; growth hormones; immunity..autoimmunity; infants (human); metabolic diseases; radiolabeled iodine; thyroid hormones; thyroxine

AM-04546 **ZINSSER, HANS H.,** Col. Phys., Surg., Columbia Univ., New York, N.Y.
urinary calculi; ions..anion; oxalates; stable isotope labeled carbon; uric acid; cystine; calcium phosphate; radiolabeled calcium; binding; mucoproteins; enzyme inhibitors; struvite; calcium carbonate; urea; stable isotope labeled nitrogen

AM-04549 **WALLER, MARION,** Medical College Virginia, Richmond, Va
arthritis..rheumatoid arthritis; family; immunological tests; longitudinal study; rheumatoid factors; serology; survey

AM-04586 **PARKER, JULIUS G.,** Montefiore Hosp., Bronx, N.Y.
adults; intestines..small intestine; malabsorption syndromes; sprue; steatorrhea

AM-04606 **THORBJARNARSON, BJORN,** Col. Med., Cornell Univ., N.Y.C.
bile; bile ducts; intestines..duodenum; nutrition; pancreatic ducts; pancreatic juice; peptic ulcer; transplantation..autotransplantation; gastrointestinal transplantation

AM-04623 **POTH, EDGAR J.,** Univ. Texas Med. Br., Galveston, Tex.
pancreas; peptic ulcer

AM-04648 **MEYER, KARL A.,** Cook County Hosp., Chicago, Ill.
pancreatic diseases; medical records

AM-04651 **FISHER, BERNARD,** Sch. Med., Univ. Pittsburgh, Pittsburgh, Penna.
liver; regeneration; radiolabeled phosphorus; liver function; hepatectomy

AM-04652 **WASSERMAN, ROBERT H.,** New York State Vet. Col., Ithaca, N.Y.
intestinal absorption; calcium; membrane permeability and transport; ion; manganese; copper; iron; vitamin D; lactose

AM-04654 **BRONSKY, DAVID.,** Cook Co. Hosp., Chicago, Ill.
parathyroid glands; phosphates; kidney function; parathyroid glands disorders; thyroidectomy; calcium

AM-04675 **KOKAS, ESZTER,** Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
intestinal villi; villikinin; ganglionic blocking agents (nonspecific); anesthetics; mucous membrane

AM-04676 **DONNER, MARTIN W.,** Johns Hopkins Hosp., Baltimore, Md.
intestinal motility; gastrointestinal disorders; pancreatic diseases; biliary tract diseases

AM-04679 **SELLERS, ALVIN F.,** N.Y.S. Vet. Col., Cornell Univ., Ithaca, N.Y.
blood flow; stomach..rumen; veterinary medicine; stomach absorption

AM-04680 **SELIGSON, DAVID,** Sch. Med., Yale U., NEW Haven, Conn.
hepatic coma; uremia; organic acids; ultraviolet spectrometry; fluorescence spectrometry; body fluids; brain disorders; urine

AM-04683 **HAVERBACK, BERNARD J.,** Sch. Med., U. So. California, Los Angeles, Cal.
pancreatitis; pancreatic juice; pancreas; pancreatic cystic fibrosis; proteases; enzymes inhibitors; blood coagulation..plasmin; blood coagulation..thrombin; alpha globulin; diagnostic tests; therapy

AM-04775 **WELSH, JACK D.,** Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
stomach..gastric juice; ion exchange chromatography; gastrointestinal disorders

AM-04916 **ANNEGERS, JOHN H.,** Sch. Med., Northwestern Univ., Chicago, Ill.
intestinal absorption; sodium; potassium; hexoses; amino acid

AM-04938 **GROSSMAN, MORTON I.,** Veterans Admin. Cr., Los Angeles, Cal.
swallowing; esophagus..intraesophageal pressure; gastroesophageal reflux

(contd)

GENERAL MEDICINE (CONTD)

AM-04977 **HARRIS, RUTH C., Col. Phys., Surg., Columbia Univ., N.Y.C.**
liver function; infants, human..premature infants; children; longitudinal study; proteins; bilirubin; glucuronic acid; screening; congenital cataract; phosphotransferases..UTP? a-D-galactose-1-phosphate uridyltransferase; electrolytes; ketoacids; amino acid; glycogenosis; blood cells..leukocytes; phosphorylases

AM-04978 **HIRSCHOWITZ, BASIL I., Univ. Alabama Med. Cr., Birmingham, Ala.**
gastrointestinal system; fiberscope, gastrointestinal; radiography; gastrectomy; peptic ulcer; gastrointestinal hemorrhage; intestines..duodenum; gastritis; stomach neoplasms; photography; cinematography; gastroscopy

AM-04979 **RHODES, WILLIAM H., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.**
aging; joints; joints diseases..degenerative joint disease

AM-05000 **WILSON, JOHN F., Sch. Med., Univ. Utah, Salt Lake City, Utah**
infant human; hypochromic anemia; malabsorption syndrome; gastrointestinal disorders; diet; milk; food processing; therapy evaluation; adrenal cortex hormones; blood cells..erythrocytes; blood proteins.. plasma proteins; hemoglobin; radiolabeled chromium; feces; gastrointestinal hemorrhage

AM-05045 **NAITOVE, ARTHUR, Dartmouth Med. Sch., Hanover, N.H.**
hypercapnia; hypoxia; stomach..gastric juice; electrolytes; blood circulation dynamics; potassium; pulmonary emphysema; nervous system..vagus nerve

AM-05055 **TARANTA, ANGELO, Irvington House Inst., N.Y.C.**
anaphylaxis; arthritis..rheumatoid arthritis; binding; blood ..serum; heart; hypersensitivity; immunity..autoimmunity; lupus erythematosus; molecules; nephritis; nephrotoxins; rheumatic fever; rheumatoid factors

AM-05062 **LIPTON, MORRIS A., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
thyroid gland disorders; catecholamines; epinephrine; hyperthyroidism; reserpine; 3-methoxy-4-hydroxymandelic acid; amine

AM-05069 **BLAND, JOHN H., Rheumatism Research Unit, Medical Alumni Bldg., Burlington, Vt.**
connective tissue; synovial fluid; water--electrolyte balance; instrumentation; osmotic pressure; colloids

AM-05100 **SPIRO, HOWARD M., Sch. Med., Yale Univ., New Haven, Connecticut**
primates..monkeys; brain; stomach..gastric juice; esophagus motility

AM-05138 **ZOLLINGER, ROBERT M., University Hosp., Columbus, Ohio**
endocrine glands; exocrine glands; gastric pouch; intestinal absorption; pancreas; pancreas neoplasms; peptic ulcer; stomach..gastric juice

AM-05140 **ZVAIFLER, NATHAN J., Sch. Med., Georgetown Univ., Washington, D.C.**
arthritis..rheumatoid arthritis; blood..serum; immunological tests; immunology..antibodies; synovial membranes

AM-05167 **BOETTNER, EDWARD A., Sch. Publ Hlth., Univ. Michigan, Ann Arbor, Mich.**
infrared spectrometry; gas chromatography; acetone; diabetes; industrial medicine; halogenated hydrocarbons; breath composition; solvents; diagnostic tests

AM-05218 **HENDRIX, THOMAS R., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
steatorrhea; jaundice..obstructive jaundice; malabsorption syndromes; fatty acids; bile acids and salts; triglycerides; intestinal absorption; molecular structure; therapy evaluation

AM-05275 **MANSBERGER, ARLIE R., Jr., Univ. Maryland Hosp., Baltimore, Md.**
abdomen (acute); ammonia; ascites; body fluids; carbohydrases..amylases; hemorrhage; pancreatitis; peritoneum

AM-05277 **WHITE, THOMAS T., Sch. Med., Univ. Washington, Seattle, Wash.**
pancreatic function; enzymes; gastrointestinal surgery; diet; intestinal motility; polypeptides; intestines..small intestine; pancreatectomy; acetylcholine; nerves; bile ducts..Oddi's sphincter

AM-05278 **EVERETT, MARK A., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.**
purine nucleosides; pyrimidine nucleosides; radiation effects; skin; ultraviolet rays; urocanic acid; vasoactive agents..vasodilators

AM-05288 **DAVIS, JOHN H., Western Res. Univ., Cleveland, Ohio**
intestinal obstruction; body fluids; blood cells..erythrocytes; bacteria; endotoxins; chemical structure

AM-05322 **HOLLANDER, JOSEPH L., Sch. Med., Hosp. of Univ. Pennsylvania, Philadelphia, Pa.**
rheumatic diseases; climate; arthritis..rheumatoid arthritis; climatron; body weight; joints; arthritis.. osteoarthritis; gout; lupus erythematosus..systemic lupus erythematosus; heart diseases; kidney disorders; pulmonary emphysema; water-electrolyte balance; blood flow; asthma

AM-05374 **POLLAK, VICTOR E., Presby-St. Luke's Hosp., Chicago, Ill.**
lupus erythematosus..systemic lupus erythematosus; genetics

AM-05375 **FALOON, WILLIAM W., University Hosp., Syracuse, N.Y.**
albumins; fats; feces; intestinal absorption; intestines; malabsorption syndromes; nutrients; PVP; radiolabeled calcium; radiolabeled potassium; radiolabeled sodium; steroids

AM-05456 **MERRITT, A. DONALD, Sch. Med., Indiana Univ., Indianapolis, Indiana**
pancreatic cystic fibrosis; genetics; saliva; proteins

AM-05457 **ELLIS, F. HARRY, JR., Mayo Assn., Rochester, Minn.**
cardiospasm; esophagus; esophagus..cardiac sphincter; esophagus motility; nervous system..sympathetic nervous system; vagotomy

AM-05459 **KOWALCZYK, TED, Sch. Agr., Univ. Wisconsin, Madison, Wis.**
peptic ulcer; survey; epizootiology; gastroscopy; instrumentation; stress; therapy; gastrointestinal hemorrhage; nutrition

AM-05467 **GOETSCH, GERALD D., Sch. Vet. Sci., Med., Purdue Univ., Lafayette, Ind.**
diet; endocrine glands; environment; nervous system; peptic ulcer; surgery; veterinary medicine

AM-05635 **DOBSON, RICHARD L., Sch. Med., Univ. Oregon, Portland, Oregon**
acclimatization; diuretics; hypothyroidism; pancreatic cystic fibrosis; sodium; sweat glands

AM-05667 **RAFELSON, MAX E., Jr., Presby-St. Luke's Hosp., Chicago, Ill.**
amino acid; cerebro-oculo-renal syndrome; children; cystinosis; gout; organic acids; phosphorylation; uremia

AM-05690 **ROE, DAPHNE A., Grad. Sch. Nutr., Cornell Univ., Ithaca, N.Y.**
psoriasis; hydroxystilbamidine; chemotherapy; aromatic diamidines; sulfur; taurine; radiolabeled sulfur; nutrition

AM-05693 **COZZETTO, FRANK J., Univ. Colorado Med. Cr., Denver, Colo.**
radiolabeled carbon; carbon dioxide; fats; fatty acids; intestinal absorption; pancreatic cystic fibrosis; sugar; amino acid; malabsorption syndromes; children; infants, human; ionization chambers; infrared gas analyzer

AM-05713 **MENGUY, RENE, Univ. Kentucky Med. Cr., Lexington, Ky.**
liver function; intestines..jejunum; intestines..small intestine; gastric pouch; hydrochloric acid; histamine; bile; pancreatic juice; stomach; mucoproteins

AM-05715 **KALSER, MARTIN H., Sch. Med., Univ. Miami, Miami, Fla.**
sodium; potassium; water--electrolyte balance; sugars; intestinal absorption; ions..cation; gastrectomy; surgery..postoperative

AM-05716 **FAHLBERG, WILLSON J., Col. Med., Baylor Univ., Houston, Tex.**
arthritis..rheumatoid arthritis; blood coagulation..fibrinolysis; children; enzymes inhibitors..antiplasmin; enzymes inhibitors..trypsin inhibitors; serology

AM-05733 **HOLLANDER, FRANKLIN, Mt. Sinai Hosp., N.Y.C.**
vagotomy; peptic ulcer; gastric pouch; stomach; nerve.. denervation; stomach..motility; insulin; therapy; diagnostic tests

AM-05794 **PEARSON, ROGER W., Sch. Med., Univ. Chicago, Chicago, Ill.**
blisters; blood vessels; colchicine; enzymes; hair follicle; ionizing radiation, unspecified; membrane permeability; radiation effects; skin; skin diseases

AM-05795 **MAY, CHARLES D., New York Univ. Med. Cr., New York, N.Y.**
aldosterone; electrolytes; sweat; aldosterone inhibitors; pancreatic cystic fibrosis; diagnostic tests

AM-05808 **BAGATELL, FILLMORE K., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
acantholysis; blisters; skin; cantharidin; oxidative phosphorylation; cell components..mitochondria; irritants..skin irritants

AM-05812 **SMITH, J. GRAHAM, Jr., Duke Univ. Med. Cr., Durham, N.C.**
mucopolysaccharides; skin; keratins; aging; chemical structure; hexosamines; collagen; elastin

AM-05847 **HOMBURGER, FREDDY, Bio-Research Inst., Cambridge, Mass.**
mucopolysaccharides; skin; estrogens; aging

AM-05858 **BLIVAISS, BEN B., Chicago Med. Sch., Chicago, Ill.**
alkaptonuria; connective tissue; enzymes inhibitors; homogentisic acid; ochronosis

AM-05902 **CHRISTIANSEN, PHILIP A., Veterans Admin. Hosp., Indianapolis, Ind.**
intestinal absorption; vitamin B12; reaction sites; intestinal motility; metabolic diseases

AM-05932 **CHRISTIANSEN, PHILIP A., Veterans Admin. Hosp., Indianapolis, Ind.**
intestinal absorption; membrane permeability; valine; radiolabeled carbon; cell components..cell membrane; cell--free systems; chemical structure; metabolites; enzymes substrate

AM-05958 **COLCHER, HENRY, Col. Phys. Surg., Columbia Univ., New York, New York**
cinegastroscopy; instrumentation-methodology; gastrointestinal disorders; gastrointestinal neoplasms; photography; information exchange

AM-05963 **FALLIERS, CONSTANTINE J., Children's Asthma Inst. and Hosp., Denver, Colo.**
thyroid function; asthma; bronchial mucus; pulmonary function; iodide; therapy; longitudinal study; steroids; children; dosage; anti--inflammatory agents; goiter

AM-06018 **HARTIALA, KAARLO J. W., Univ. Turku, Turku, Finland**
mucopolysaccharides; fractionation; gastrointestinal system; glucuronic acid; conjugates; peptic ulcer; salicylates; 2-phenylquinoline-4-carboxylic acid

AM-06078 **NECHELES, HEINRICH,** Michael Reese Hosp., Chicago, Ill.
gastritis; peptic ulcer; hypoglycemia; nervous system.. vagus nerve; brain; stomach..gastric juice; hydrochloric acid; proteases..pepsin; stomach motility; potentials.. action potentials; heart; nervous system transplantation

AM-06142 **GUM, OREN B.,** Sch. Med., Tulane Univ., New Orleans, La.
amine; arthritis..rheumatoid arthritis; collagen diseases; epinephrine; lupus erythematosus; norepinephrine; serotonin; urine

AM-06203 **RUBINSTEIN, HERBERT M.,** Veterans Admin. Hosp., Hines, Ill.
esters; choline esterases; genetics

AM-06204 **SCHIFF, LEON,** Sch. Med., Cincinnati Gen. Hosp., Cincinnati, Ohio
liver cirrhosis; iron; intestinal absorption; hemosiderosis; blood vessels shunts..portacaval shunt; liver function

AM-06239 **WEARY, PEYTON E.,** Sch. Med., Univ. Virginia, Charlottesville, Va.
fungi; keratins; proteases..keratinases; cell-free systems; cystine

AM-06240 **ZINNEMAN, HORACE H.,** Veterans Administration Hosp., Minneapolis, Minn.
amino acid; aminoaciduria; arthritis..rheumatoid arthritis; blood sugar; creatinine; Cushing's syndrome; glucocorticoids; hydrocortisone; 17-hydroxycorticosteroids; nitrogen

AM-06298 **WELSH, JACK D.,** Oklahoma Med. Res. Inst., Oklahoma City, Okla.
achylia gastrica..achlorhydria; binding; hexoses; histamine; hydrochloric acid; intrinsic factor; pernicious anemia; proteases; stomach..gastric juice; urine; vitamin B12

AM-06299 **ANAST, CONSTANTINE S.,** Sch. Med., Univ. Missouri, Columbia, Mo.
children; sulfation factor; infants, human; pituitary gland disorders; cretinism; diabetes; mongolism

AM-06300 **KNIGHT, WILLIAM A., Jr.,** Firmin Desloge Hosp., St. Louis, Mo.
methionine; pancreas; pancreatic diseases; radiolabeled sulfur; secretin

AM-06329 **MORRISSEY, JOHN F.,** University Hosps., Madison, Wis.
amino acid; diet; fasting; liver diseases

AM-06363 **AKESON, WAYNE H.,** Sch. Med., Univ. Washington, Seattle, Wash.
connective tissue; immobilization; mucopolysaccharides; joints..knee; aging; collagen; polysaccharides; fractionation

AM-06364 **CALLAHAN, WILLIAM P., III,** Sch. Med., Univ. Florida, Gainesville, Fla.
pituitary hormones; growth; skin; age; sex difference; hypophysectomy; colchicine; deoxyribonucleic acid; cell division..mitosis; epithelium; radiolabeled iodine; electron microscopy

AM-06365 **LOBECK, CHARLES C.,** University Hosps., Madison, Wis.
sweat glands; membrane permeability and transport; pancreatic cystic fibrosis; age; sex difference; genetics..heterozygotes; hormones; electrolytes; blood cells..erythrocytes; diuretics; phospholipids; children; radiolabeled phosphorus; sodium

AM-06373 **SALMON, PETER A.,** Mt. Sinai Hosp., Minneapolis, Minn.
stomach..gastric juice; pump oxygenator; gastrointestinal disorders; mucous membrane; pancreas; drugs; dyes

AM-06377 **SENIOR, JOHN R.,** Philadelphia Gen. Hosp., Philadelphia, Pa.
intestines; epithelium; gastrointestinal disorders; electron microscopy; lipids; intestinal absorption

AM-06404 **HENNEMAN, PHILIP H.,** Seaton Hall Col. Med., Jersey City, N.J.
bile acids and salts; blood proteins..serum proteins; bone; bone disorders; bone resorption; calcium; cartilage; endocrine glands; fatty acids; growth; intestinal absorption; magnesium; primates..monkeys; radiolabeled carbon; steroids; tritium; vitamin D

AM-06410 **JORPES, JOHAN E.,** Karolinska Inst., Stockholm, Sweden
secretin; cholecystokinin; pancreozymin; intestines.. duodenum; amino acid sequence

AM-06441 **WILLIAMS, ROGER D.,** University Hospital, Columbus, Ohio
jaundice..obstructive jaundice; liver; phosphomonoesterases..alkaline phosphatase

AM-06443 **LEONARD, ARNOLD S.,** Univ. Minnesota Hosp., Minneapolis, Minn.
brain..hypothalamus; peptic ulcer; blood flow; acids; proteases..pepsin; stomach..gastric juice; intestines.. duodenum; electrostimulus; brain lesions; gastrointestinal circulation

AM-06496 **CANARY, JOHN J.,** Georgetown Univ. Hosp., Washington, D.C.
osteoporosis; bones..ribs; menopause..postmenopause; hypogonadism; acromegaly; thyrotoxicosis; hyperadrenalism; calcium; electrolytes; organic acids; hydroxyproline; fatty acids; radiolabeled calcium; therapy; estrogens; androgens; insulin

AM-06505 **WOLF, BERNARD S.,** Mount Sinai Hosp., New York, N.Y.
respiration; radiography; swallowing; esophagus.. intraesophageal pressure; diaphragmatic hernia;

AM-06506 **FORDTRAN, JOHN S.,** Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
contrast media; flame photometry; fluoroscopy; gastrointestinal disorders; intestinal absorption; radiolabeled sodium; scintillation counters; secretion; staphylotoxins; water-electrolyte balance

AM-06588 **SHILS, MAURICE E.,** Sloan-Kettering Inst., New York, N.Y.
antibiotics..tetracycline; antibiotics..chlortetracycline; antibiotics..chloramphenicol; antibiotics..puromycin; kidney disorders; azotemia; uremia; steroids; fats

AM-06611 **McCARTY, DANIEL J.,** Hahnemann Med. Col., Hosp., Philadelphia, Pa.
synovitis; inflammation; uric acid; oxalates; adrenal cortex hormones; blood cells..leukocytes; phagocytosis; blood flow; blood pressure; body temperature; peroxidases..myeloperoxidase; trauma; steroids; colchicine; phenylbutazone; radiolabeled iron; chemotherapy

AM-06612 **BENSON, JOHN A., Jr.,** Sch. Med., Univ. Oregon, Portland, Ore.
blood flow; brain..hypothalamus; electrostimulus; gastrointestinal motility; mucous membrane; peptic ulcer; stomach..gastric juice; stress

AM-06613 **JUNIPER, KERRISON, Jr.,** Univ. Arkansas Med. Cr., Little Rock, Ark.
chemical structure--biological activity; metabolic diseases; polypeptides; proteinuria

AM-06615 **McCARTY, DANIEL J., Jr.,** Hahnemann Med. Col., Hosp., Philadelphia, Pa.
pseudogout; family; atherosclerosis; hypertension (systemic); pernicious anemia; synovial fluid; joints diseases; radiography; crystallography

AM-06657 **VOLWILER, WADE,** Sch. Med., Univ. Washington, Seattle, Wash.
calcium; gastrointestinal disorders; intestinal absorption; radiolabeled calcium

AM-06660 **Di LUZIO, NICHOLAS R.,** Univ. Tennessee Med. Units, Memphis, Tenn.
atherosclerosis; diagnostic tests; emulsions; endocrine glands disorders; infectious diseases; lipids..serum lipids; neoplasms; reticuloendothelial system; transplantation; tuberculosis

AM-06706 **KIBRICK, ANDRE C.,** Inst. Muscle Disease, N.Y.C. collagen diseases; hydroxyproline; peptides; proline; rheumatic diseases

AM-06801 **WHEATLEY, VICTOR R.,** New York Univ. Med. Cr., N.Y.C. skin; sebum; lipids; cholesterol; chemical structure; fatty acids; amino acid; perfusion; dermatitis seborrheica; acne vulgaris; psoriasis; radiolabeled carbon

AM-06809 **LANGE, CHARLES F., Jr.,** Hektoen Inst. Med. Res., Cook County Hosp., Chicago, Ill.
glomerulonephritis; glycoproteins; α--globulin; kidney; methionine; radiolabeled sulfur; nephritis

AM-06818 **MUDGE, GILBERT H.,** Dartmouth Med. Sch., Hanover, N.H.
kidney..renal tubules; uric acid; creatinine; kidney function; stop flow technique; uricosuric agents; phylogeny

AM-06826 **FREEDMAN, PHILIP,** Hektoen Inst. Med. Res., Chicago, Ill.
glomerulonephritis; chronic disease; bacteria..Streptococcus; immunology..antibodies; nephrotic syndrome; penicillin; therapy evaluation; children; adults; steroids; longitudinal study

AM-06933 **WEBSTER, GEORGE D.,** Grad. Sch., Univ. Pennsylvania, Philadelphia, Pa.
uric acid; liver; bile; intestines..duodenum; gallbladder; biliary tract; metabolic diseases; radiolabeled carbon

AM-06990 **BESSMAN, ALICE N.,** Sch. Med., Johns Hopkins Univ., Baltimore, Md.
amino acid; ammonia intoxication; gastrointestinal hemorrhage; hepatic coma; coma; proteins; diet

AM-07026 **JOHNSON, CHARLES F.,** Univ. Chicago, Chicago, Ill. electron microscopy; gastrointestinal disorders; intestinal absorption; liver diseases

AM-07047 **WAKIM, K.G.,** Mayo Association, Rochester, Minn. hypercalcemia; calcium; pancreatic juice; immunology, antibodies; proteases; ethionine; hyperparathyroidism; pancreatitis

AM-07048 **TYLOR, MALCOLM P.,** Duke Univ. Med. Cr., Durham, N.C.
amino acid; cell components; enzymes; fatty acids; intestines; liver function; lymph; pancreas; pancreozymin; peptides; perfusion; peripheral vascular system; radiolabeled carbon

AM-07049 **NAKAYAMA, FUMIO,** Sch. Med., Kyusha Univ., Fukuoka, Japan
gallstones; lipids; diet; bile; cholesterol; atherosclerosis; solubility

AM-07050 **O'BRIEN, THOMAS F., Jr.,** Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.
p-hydroxyphenylacetic acid; steatorrhea; tyrosine; ascorbic acid; malnutrition; pancreatic diseases; enteritis; sprue; gastrectomy; intestinal absorption; feces; lipids; D-xylose; carotenes

AM-07051 **SALIK, JULIAN O.,** Sinai Hosp., Baltimore, Md. biliary tract; intestines..duodenum; gastrointestinal motility; cholecystokinin; gastrointestinal disorders; radiolabeled iodine; contrast media; lipids; proteins; carbohydrates; bile acids and salt; magnesium; drugs

(contd)

GENERAL MEDICINE (CONTD)

AM-07082 FLESCH, PETER, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
chemical structure; hair; ichthyosis; keratinization; lipids; mucopolysaccharides; psoriasis; skin; skin diseases

AM-07084 MESCON, HERBERT, Sch. Med., Boston Univ., Boston, Mass.
acne vulgaris; adrenal cortex hormones; androgens; androgens inhibitors; sebaceous gland hyperplasia; sebaceous glands; sex hormones; therapy

AM-07120 FRENCH, ARTHUR B., University Hosp., Ann Arbor, Mich.
intestinal absorption; intestines..small intestine; perfusion; glucose; galactose; amino acid; lipids; sprue; gastrectomy

AM-07125 SMALL, MELVIN D., Georgetown U. Hosp., Washington, D.C.
intestinal absorption; proteins; xylose; glucose; hydrocortisone; aminopterin; amino acid; sodium; steroids; dietary deficiency; uremia; salicylazosulfapyridine; germ-free; neomycin; alcohols; stomach neoplasms; intestines; histogenesis; enzymes; epithelium

AM-07137 BAER, RUDOLF L., New York Univ. Med. Cr., N.Y.C.
adrenal cortex hormones; electrolytes; fatty acids; keratinization; lipids; psoriasis; sebum; skin; skin neoplasms; sterols; trace elements

AM-07138 WITTEN, VICTOR H., Sch. Med., Univ. Miami, Coral Gables, Fla.
chemotherapy; cholesterol; cortisone; hydrocortisone; membrane permeability; metabolites; radiolabeled carbon; skin diseases; triamcinolone acetonide; tritium

AM-07188 RUBINI, MILTON E., Wadsworth Veterans Admin. Hosp., Los Angeles, Cal.
kidney disorders; diagnostic tests; water-electrolyte balance; potassium; diet; sodium; radiolabeled potassium

AM-07194 PINKUS, HERMANN, Receiving Hosp., Detroit, Mich.
skin; regeneration; skin diseases; implants; melanocytes; connective tissue; injury..scars; keloid; elastic tissue; skin neoplasms

AM-07233 WAINER, ARTHUR, Bowman Gray Sch. Med., Winston-Salem, N.C.
cystine; cysteine; oxidation; cell components; enzymes; cystinosis; binding

AM-07238 FINK, CHESTER W., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
collagen; growth; hydroxyproline; peptides; hormones; children; age; endocrine glands disorders; radiolabeled carbon

AM-07250 LAPIERE, CHARLES M., Hospital de Baviere, Liege, Belgium
connective tissue; collagen; enzymes; uterus; proteases.. collagenase; proline; pregnancy; neoplasms; inflammation; hydroxyproline; amino acids; proteins; bone; ionizing radiation

AM-07256 KERN, FRED, Jr., Univ. Colorado Med. Cr., Denver, Colo.
disaccharides; intestinal absorption; gastrointestinal disorders; steatorrhea; screening; blood sugar; carbohydrases; bacteria; fats; disaccharide (oligosaccharide) intolerance

AM-07259 HEINER, DOUGLAS C., Sch. Med., Univ. Utah, Salt Lake City, Utah
malabsorption syndromes; immunology; wheat; proteins; glutens; milk; food; genetics

AM-07262 LITTMAN, ARMAND, Veterans Admin. Hosp., Hines, Ill.
achylia gastrica..achlorhydria; blood cells..erythrocytes; gastric hypothermia; gastrointestinal hemorrhage; hypothermia; peptic ulcer; radiolabeled chromium; therapy evaluation

AM-07266 FLEISCH, HERBERT A., Schweizerisches Forschungsinstitut, Davos, Switzerland
pyrophosphates; bone disorders; calcification; metabolic diseases; kidney disorders; endocrine glands disorders; antimetabolites; polyphosphates; therapy; urinary calculi; arteriosclerosis

AM-07338 WHALLEY, PRGGY J., Southwestern Med. Sch., Univ. Texas, Dallas, Texas
menstruation disorders; kidney function; anemia; ethnic groups..Negroes; pregnancy; bacteriuria; hemoglobin-S

AM-07339 FENSTER, L. FREDERICK, Univ. Washington, Seattle, Wash.
liver diseases; phosphomonoesterases..alkaline phosphatase; liver; perfusion; biliary fistula; veins..hepatic veins; blood vessel shunts..portacaval shunt

AM-07340 FARR, ANDREW F., Los Amigo Hosp., Downey, Cal.
proteinuria; exercise; age; time; posture

AM-07341 DUNLOP, ROBERT H., New York State Vet. Col., Cornell Univ., Ithaca, N.Y.
toxicology; lactates; intestinal absorption; diet; carbohydrates; intestinal fistula; dehydration (body fluids); isomers; catecholamines; histamine; endotoxins; stomach absorption

AM-07343 SANDSON, JOHN I., Albert Einstein Col. Med., Bronx, N.Y.
arthritis..rheumatoid arthritis; hyaluronic acid; mucoproteins; radiolabeled iodine; synovial fluid

AM-07374 WHEELER, HENRY O., Col. Phys., Surg., Columbia Univ., New York, N.Y.
gallbladder; membrane permeability and transport; ion.. cation; ion..anion; oxygen consumption; lactates; antimetabolites; ouabain; iodoacetate; urea; acetamide; radiolabeled carbon

AM-07377 HERRMANN, WALTER L., Univ. Washington Hosp., Seattle, Wash.
etiocholanone fever; 5β--androstane--3α--ol--17--one; muscle; veins; injections; tritium; steroids; hypersensitivity; blood cells..leukocytes

AM-07379 FORSHAM, PETER H., Univ. California Med. Cr., San Francisco, Cal.
secretory mechanisms; glucose; insulin; diet; carbohydrates; fats; obesity; diabetes; hypoglycemia; radiolabeled iodine; radiolabeled carbon

AM-07381 BENSON, JOHN A., Jr., Sch. Med., Univ. Oregon, Portland, Ore.
biliary tract; gastric hypothermia; gastric pouch; liver function; pancreatic function; peptic ulcer; therapy evaluation

AM-07383 MAGID, GEORGE J., Santa Clara County Hosp., San Jose, Cal.
vitamin D resistant rickets; vitamin D; therapy; kidney function; calcium; phosphorus; intestinal absorption; parathyroid hormones; bone disorders; genetics

AM-07388 STRAUSS, JOHN S., Massachusetts Mem. Hosp., Boston, Mass.
acne vulgaris; sebaceous glands; sebum; fatty acids; age; children..adolescence; androgens inhibitors; therapy; hormones; enzymes inhibitors

AM-07400 BERKOWITZ, DONALD, Hahnemann Med. Col., Philadelphia, Pa.
intestinal absorption; triolein; radiolabeled iodine; diet; parasympathomimetic agents

AM-07417 CHALMERS, THOMAS C., Lemuel Shattuck Hosp., Boston, Mass.
liver cirrhosis; ammonia; body fluids; bubble chamber; blood--brain barrier; ion; ascites; therapy; triglycerides; diffusion; blood volume

AM-07429 IBER, FRANK L., Johns Hopkins Hosp., Baltimore, Md.
jaundice..obstructive jaundice; bilirubin; radiolabeled carbon; kidney..renal tubular transport; drugs; albumins.. serum albumins; binding

AM-07455 HINMAN, EDWARD J., Johns Hopkins Hosp., Baltimore, Md.
calcium; electrolytes; hypercalcemia; kidney..renal tubular transport; vasopressin; water-electrolyte balance

AM-07456 POWERS, SAMUEL R., Jr., Albany Med. Col., Albany, N.Y.
stomach..gastric juice; hydrochloric acid; oxygen consumption; carbon dioxide tension; blood flow; hydrogen-ion concentration; peptic ulcer; histamine; hormones; nervous system..vagus nerve; nerves..denervation

AM-07494 KENNEDY, CHARLES B., Sch. Med., Louisiana State Univ., New Orleans, La.
contact dermatitis; blood coagulation..fibrinolysis; epsilon--aminocaproic acid; hypersensitivity..delayed hypersensitivity

AM-07563 BALINT, JOHN A., Albany Med. Col., Albany, N.Y.
pancreatic function; diet; secretin; peptic ulcer; pancreozymin; gastrectomy; electrolytes; intestinal absorption; lipids..plasma lipids; silicic acid chromatography

AM-07583 SMITH, J. GRAHAM, Jr., Duke Univ. Med. Cr., Durham, N.C.
acidosis; collagen; elastic tissue; elastin; hydroxyproline; infrared rays; proline; radiation effects; radiolabeled carbon; skin diseases; ultraviolet rays

AM-07595 ORTIZ-ORTIZ, ANTONIO, Sch. Med., Univ. Puerto Rico, San Juan, P.R.
malnutrition; dehydration (body fluids); diarrhea; children; kidney function; electrolytes; body water; muscle; diagnostic tests; therapy evaluation

AM-07600 BERNSTEIN, DANIEL S., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
aging; fluorides; osteoporosis; survey; water supply

AM-07655 CUNNINGHAM, GEORGE C., Children's Hosp. East Bay, Oakland, Cal.
bioassay; creatinine; glucose; kidney..renal tubular transport; parathyroid hormones; perfusion; phosphates

AM-07662 SEGAR, WILLIAM E., Indiana Univ. Med. Cr., Indianapolis, Ind.
adults; bioassay; children; dehydration (body fluids); exercise; kidney disorders; nervous system disorders; vasopressin

AM-07668 RASKIN, JOAN, Sch. Med., Univ. Maryland, Baltimore, Md.
dermatitis; drugs hypersensitivity; epithelioma; erythema; granuloma; immunology..antigen-antibody reactions; immunology..autoantibodies; lupus erythematosus; serology; skin diseases

AM-07695 WAGNER, MARSDEN G., Sch. Med., UCLA Center Hlth. Sciences, Los Angeles, Cal.
age; children; kidney disorders; kidney function; proteinuria; survey

AM-07725 GERSHOFF, STANLEY N., Harvard Sch. Pub. Hlth., Boston, Mass.
diet; magnesium; oxalates; primates..Cebus monkeys; pyridoxine; sex difference; therapy evaluation; uric acid; urinary calculi

AM-07726 SPIERA, HARRY, Sch. Phys., Surg., Columbia Univ., N.Y.C.
antiinflammatory agents: arthritis..rheumatoid arthritis; connective tissue diseases; 3-hydroxy-anthranilic acid; 5-hydroxy-indole acetic acid; kynurenic acid; metabolites; serotonin; tryptamine; tryptophan; xanthurenic acid

AM-07727 SIMMONS, DANIEL H., Mount Sinai Hosp., Los Angeles, Cal.
acidosis; calcium carbonate; hypocalcemia; intestinal absorption; kidney function; radiolabeled calcium; therapy evaluation; uremia

AM-07760 LINDNER, ARTHUR E., Sch. Med., New York Univ., New York, N.Y.
secretory mechanisms; histamine; feeding; stomach.. gastric juice; electrolytes; non--electrolytes; vagotomy; peptic ulcer; acetazolamide; chlorothiazide; vasopressin; ouabain; quinidine; meralluride; serotonin; reserpine; methacholine

AM-07792 EISENBERG, EUGENE, Univ. California Med. Cr., San Francisco, Cal.
adrenal cortex hormones; androgens; arteries..renal artery; arterial infusions; blood flow; calcium; catheterization; estrogens; kidney..glomerular filtration; kidney function; radiolabeled calcium; steroids

AM-07793 STREETEN DAVID H.P., State Univ. New York Upstate Med. Cr., Univ. Hosp., Syracuse, N.Y.
adrenal cortex hormones; barbiturates; diabetes insipidus; edema (generalized); ethanol; osmoreceptors; osmotic pressure; parasympathomimetic agents; vasopressin

AM-07794 GUTH, PAUL H., Orange County Gen. Hosp., Orange, Cal.
blood supply; injury..wound healing; peptic ulcer; prednisolone; stomach..gastric juice; stress

AM-07798 SCHOCH, HENRY K., Veterans Admin. Hosp., Ann Arbor, Mich.
ankylosis..spondylosis; arthritis..rheumatoid arthritis; blood..serum; dehydrogenases..lactic dehydrogenase; enzymes; enzymes..isoenzymes; genetics; glucose; muscle..skeletal muscle; muscular dystrophy

AM-07835 JOHNSTON, CHARLES L., Jr., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
blood..plasma; fractionation; intestines; mucous membrane; urine; villikinin

AM-07837 HOROWITZ, LAWRENCE, Sch. Med., New York Univ., N.Y.C.
intestinal absorption; water-electrolyte balance; liquid flow; diarrhea; intestinal obstruction; abdomen..intra-abdominal pressure; intestinal motility

AM-07841 KELLERMEYER, ROBERT W., Sch. Med., Western Reserve Univ., Cleveland, Ohio
blood cells..neutrophil leukocytes; colchicines; gout; hydrogen-ion concentration; inflammation; lactic acid; phagocytosis; radiolabeled carbon; synovial fluid; uric acid

AM-07864 ZOLLINGER, ROBERT, University Hosp., Columbus, Ohio
gastrin; chemical structure--biological activity; peptic ulcer; stomach..antrum; secretory mechanisms; fasting

AM-07871 RAISZ, LAWRENCE G., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
bone resorption; calcium; dietary deficiency; kidney function; organ culture; parathyroid hormones; perfusion; phosphates; vitamin D

AM-07888 NIEDERMEIER, WILLIAM, Univ. Alabama, Med. Cr., Birmingham, Ala.
albumins; binding; computer analysis; hyaluronic acid; light scattering; molecular weight; polymers; rheumatic diseases; synovial fluid

AM-07894 THOMSON, ANDREW, Presbyterian-St. Luke's Hosp., Chicago, Ill.
amidohydrolases..urease; immunology..antibodies; liver diseases; radiolabeled carbon; hemagglutination; urea

AM-07907 McFARLAND, WILLIAM, Mt. Alto Veteran Admin. Hosp., Washington, D.C.
alcoholism; bacterial diseases; dietary deficiency; endotoxins; folic acid; leukopenia; liver diseases

AM-07911 RICHARDS, DICKINSON W., Col. Phys., Surg., Columbia Univ., N.Y.C.
conferences; ground substance; travel; geographical sites, New York

AM-07935 HOLLIDAY, MALCOLM A., Children's Hosp. of East Bay, Oakland, Cal.
vasopressin; urinary bladder; kidney; tritium; binding; urea; electrolytes; membrane permeability; 5,5--diethyl--2,4--oxazolidinedione; carbon dioxide tension; choline; children; diabetes; nephrosis; surgery..postoperative; oliguria; hydrogen--ion concentration

AM-07939 EPSTEIN, WILLIAM L., Sch. Med., Univ. California, San Francisco, Cal.
zirconium; silicon; skin; lipids; granuloma; hypersensitivity

AM-07962 THOMPSON, JAMES C., Harbor Gen. Hosp., Torrance, Cal.
chemical structure; peptic ulcer; stomach..antrum; stomach ..gastric juice inhibitors; mucous membrane; perfusion

AM-07983 BRONNER, FELIX, Sch. Med., Univ. Louisville, Louisville, Ky.
calcium; osteoporosis; radiolabeled calcium; bone resorption; osteogenesis; homeostasis; parathyroid hormones; adrenal cortex hormones

AM-08013 PRASAD, ANANDA S., Col. Med., Wayne State Univ., Detroit, Mich.
blood..serum; dysproteinemia; fractionation; gamma globulin; liver cirrhosis; lymphoma; macroglobulinemia; macroglobulins; myeloma (bone marrow)..multiple myeloma; paraproteinemia; polymerization; proteins; starch zone electrophoresis; sulfhydryls; ultrafiltration

AM-08027 CANTIN, MARC, Sch. Med., Univ. Chicago, Chicago, Ill.
lipids..serum lipids; hyperlipemia; renal failure; nephrectomy; ureteral obstruction; parathyroid glands; diet; nephrosis; renal arterial occlusions and stenosis; renal hypertension; parathyroid hormone; bone marrow; atherosclerosis; epididymal fat pad

AM-08039 LENNON, EDWARD J., Milwaukee County Hosp., Milwaukee, Wis.
body water; salts; peritoneum; membrane permeability and transport; hormones; antidiuretics; aldosterone; ascites; renal failure; nephrotic syndrome; carcinoma; tritium

AM-08043 JAVITT, NORMAN B., New York Univ. Med. Cr., N.Y.C.
glucuronic acid; conjugates; bromsulphalein; liver function tests; bilirubin glucuronides; biliary tract diseases; infants, animals..newborn

AM-08049 HOUCK, JOHN C., Res. Fdn. of Children's Hosp., Washington, D.C.
age; atropine; chemical bonds; collagen; diphenylhydantoin; hydrocortisone; hydroxyproline; radiolabeled carbon; skin; thyroid hormones; trooocollagen

AM-08108 WILBUR, RICHARD S., Palo Alto Med. Res. Fdn., Palo Alto, Cal.
fiberscope, gastrointestinal; gastrointestinal disorders; gastrointestinal hemorrage; instrumentation-methodology; lasers; photocoagulation; radiation effects

AM-08109 NELSEN, THOMAS S., Sch. Med., Stanford Univ., Palo Alto, Cal.
gastrointestinal motility; gastrointestinal disorders; peptic ulcer; gastric pouch; muscle..smooth muscle; electrophysiology; drugs; nervous system.. vagus nerve; computer analysis; instrumentation-methodology

AM-08145 JACOX, RALPH F., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
arthritis..rheumathoid arthritis; detergents; gamma globulin; ion..cation

AM-08152 DEMIS, D. JOSEPH, Barnes and Wohl Hosp., St. Louis, Mo.
histamine; mast cells hyperplasia; metabolites; decarboxylases; atopy; hypersensitivity; skin diseases; leukemia; carcinoid; imidazoles; diet; antihistamines; steroids; 1--methyl--D--lysergic acid butanolamide tartrate

AM-08164 ACHORD, JAMES L., Sch. Med., Emory Univ., Atlanta, Ga.
aminopterin; brush border membranes; enzymes; epithelium; growth, microorganisms; intestinal villi; intestines.. duodenum; methotrexate; microbial culture; sprue

AM-08179 STAHLGREN, LEROY, Graduate Hosp., Univ. Pennsylvania, Philadelphia, Pa.
intestinal absorption; intestinal motility; intestinal resection; colostomy; blood flow; arteries..superior mesentery artery; intestinal obstruction; body weight; radiolabeled cobalt; radiolabeled iron; radiolabeled iodine

AM-08180 STEWART, WELLINGTON B., College Med., Univ. Kentucky, Lexington, Ky.
iron; radiolabeled iron; intestinal absorption; stomach.. gastric juice; hypochromic anemia

AM-08237 MEYER, RICHARD E.R., Memorial Hosp., Worcester, Mass.
vivodialysis; intestines..jejunum; enzyme inhibitors; haloacids; membrane permeability and transport; uremia; water--electrolyte balance; perfusion; iodoacetate

AM-08248 MOSS, GERALD, Albany Med. Col., Albany, N.Y.
aldosterone; amino acid; carbohydrates; fats; feeding; gastrointestinal system; injury..wound healing; instrumentation-methodology; nitrogen balance; patient care.. convalescence; proteins; radiolabeled carbon; radiolabeled iodine; radiolabeled sulfur; stable isotope labeled nitrogen; steroids; surgery..postoperative; tritium; water-electrolyte balance

AM-08251 SOERGEL, KONRAD H., Milwaukee County Gen. Hosp., Milwaukee, Wis.
bioosy techniques; diabetes; diarrhea; intestinal absorption; intestines..small intestine; malabsorption syndromes; vasopressin; water-electrolyte balance

AM-08253 MAJNO, GUIDO, Harvard Med., Sch., Boston, Mass.
arthritis; synovial membranes; injury..wound healing; infant animals..newborn; endothelium permeability; phagocytosis; irritants; histamine; ferritin; peroxidases; bovine gamma globulin; lipids; electron microscopy

AM-08282 TAYLOR, KEITH B., Stanford Univ. Med. Cr., Palo Alto, Cal.
cell type; gastritis; immunity..autoimmunity; intestinal absorption; intestines..small intestine; intrinsic factor; radiolabeled sulfur; stomach..gastric juice; vitamin B12

AM-08291 ROSENBAUM, JERRY L., Albert Einstein Med. Cr., Philadelphia, Pa.
kidney function; parathyroid glands; calcium; phosphorous; venous infusions; EDTA; binding; myeloma, bone marrow; multiple myeloma; sarcoidosis; lung neoplasms; breast neoplasms; hyperparathyroidism

GENERAL MEDICINE (CONTD)

AM-08297 SHILS, MAURICE E., Sloan-Kettering Inst. Cancer Res., New York, N.Y.
malabsorption syndrome; esophagus surgery; vagotomy; bile acids and salts; antibiotics; lymphatic system; fatty acids; bacteria..enterobacteria; radiation therapy; radiolabeled iodine

AM-08301 GRAY, SEYMOUR J., Massachusetts Inst. Technology, Cambridge, Mass.
adrenal cortex hormones; adrenal glands disorders; amphenone B; blood circulation dynamics; brain; endocrine glands; gastrointestinal system; hormones; intestines; mucous membrane; mucopolysaccharides; neuroendocrine systems; parathyroid hormones; proteases ..pepsinogen; proteases..uropepsin; radiolabeled sulfur; serotonin; stomach; stress

AM-08379 TRIER, JERRY S., Sch. Med., Univ. Wisconsin, Madison, Wis.
intestines..small intestine; epithelium; mucous membrane; secretory mechanisms; biopsy techniques; gastrointestinal disorders; pilocarpine; atropine; irritants; antimetabolites

AM-08404 FRIMPTER, GEORGE W., Cornell Univ. Med. Col., New York, N.Y.
kidney disorders; kidney..renal tubular transport; aminoaciduria; cystine; cysteine; therapy evaluation; penicillamine; instrumentation--methodology; cystinuria

AM-08408 STERN, BABETTE K., Sch. Med., Univ. Chicago, Chicago, Ill.
gastrointestinal system; epithelium; cell types; gastrointestinal disorders; serotonin; cell components.. granules; tissue respiration; glycolysis; enzymes; amino acids; ion exchange and transport

AM-08426 PEDEN, VIRGINIA H., Cardinal Glennon Mem. Hosp. for Children, St. Louis, Mo.
children; infant human; age; ketone bodies; acidosis; water-electrolyte balance; kidney function; acetoacetate; acetone; diabetes; salicylism; starvation; metabolic diseases

AM-08444 DONALDSON, ROBERT M., Jr., Univ. Wisconsin, Madison, Wis.
antibiotics; lipids; intestinal obstruction; intestinal fistula; intestinal absorption; bacteria..enterobacteria; steatorrhea; bile acids and salts; radiolabeled carbon

AM-08494 LIU, HSI YEN, Univ. Michigan Med. Cr., Ann Arbor, Mich.
intestinal absorption; intestines..duodenum; infant human; children; nutrients; enzymes; malabsorption syndrome; diarrhea; stress; fat tolerance; glucose tolerance

AM-08495 SISSON, JAMES C., Univ. Michigan Med. Cr., Ann Arbor, Mich.
mucopolysaccharidosis; exophthalmogenic hormone; connective tissue; exophthalmos; thyroidectomy; enzymes; radiolabeled sulfur; radiolabeled carbon

AM-08500 TYOR, MALCOLM P., Duke Univ. Med. Cr., Durham, N.C.
lipids; esterification; amino acid; phospholipids; fatty acids; intestines; reaction sites; malabsorption syndromes; diabetes; steatorrhea, gastrectomy; endocrine glands disorders; thyrotoxicosis; pancreatic diseases; kidney disorders; DeToni-Fanconi syndrome; enzymes; radiolabeled carbon; radiolabeled iodine

AM-08545 GALAMBOS, JOHN T., Sch. Med., Emory Univ., Atlanta, Ga.
hepatitis..infectious hepatitis; ethanol; enzymes; dehydrogenases..sorbitol dehydrogenase; aminotransferases ..aspartate transaminase; aminotransferases..alanine transaminase; dehydrogenases..lactic dehydrogenase; liver function tests; liver damage; selenium

AM-08569 PARKER, FRANK, Sch. Med., Univ. Washington, Seattle, Wash.
skin; xanthomatosis; lipids; diet; cholesterol; atheroma

AM-08573 SEEBODE, JOSEPH J., Seton Hall Col. Med., Jersey City, N.J.
urinary calculi; pyrophosphates; bacteria; bacteriuria; urinary tract; penicillin; streptomycin

AM-08580 LORBER, STANLEY H., Sch. Med., Temple Univ., Philadelphia, Pa.
secretory mechanisms; gastric pouch; stomach.. gastric juice; pancreatic fistula; pancreatectomy; diet; fasting; intestines..duodenum; liver function; histamine; electrolytes; acid--base equilibrium; pancreatic function; pancreatic ducts

AM-08582 DOMELING, DONALD B., Jefferson Med. Col., Philadelphia, Pa.
hemodialysis; intestines..small intestine; intestinal motility; intestinal absorption; renal failure; perfusion; bacteria..Enterobacteria; antimetabolites; irritants; temperature

AM-08602 STANLEY, MALCOLM, Col. Med., Univ. Illinois, Chicago, Ill.
iodine; intestinal absorption; intestines..small intestine; thyroid gland disorders; thyrotoxicosis; myxedema; malabsorption syndromes; jaundice.. obstructive jaundice; antithyroid compounds; thiocyanate; perchlorate; cardiac glycosides; bile acids and salts; radiolabeled iodine

AM-08623 KING, LOWELL R., Children's Mem. Hosp., Chicago, Ill.
kidney function; ureteral motility; ureteral obstruction; ureteral reflux; ureteral hypertrophy; urinary tract disorders; ureteral restoration; age; children

AM-08631 SCHRODER, J. SPALDING, Emory Univ. Clinic, Atlanta, Ga.
esophagus..intraesophageal pressure; esophagus motility; electrostimulus; swallowing; cardiospasm; esophageal pacemaker; nervous system..vagus nerve; implants; gastrointestinal disorders; instrumentation-methodology

AM-08642 RUBINI, MILTON E., Wadsworth Hosp., Los Angeles, Cal.
peritoneum; diffusion dialysis; membrane permeability and transport; glucose; sugars; water--electrolyte balance; ions..cation; vasopressin; glucocorticoids; vasoactive agents.. vasodilators; therapy evaluation; blood proteins.. plasma proteins; uremia; azotemia; oliguria; renal failure; heart failure; poisoning; edema (generalized); biomathematics

AM-08685 WELT, LOUIS G., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
magnesium tolerance test; blood cells..erythrocytes; calcium; body composition

AM-08691 CRAMBLETT, HENRY G., Children's Hosp., Columbus, Ohio
rheumatic diseases; diagnostic tests; children; virus diseases; longitudinal study; serology

AM-08708 ENGLERT, EDWIN, Jr., Veterans Admin. Hosp., Salt Lake City, Utah
gallbladder; proteins; bile; chemical structure--biological activity; gastrointestinal system; gallbladder diseases; gallstones; immunodiffusion test

AM-08716 DAVENPORT, HORACE W., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
stomach; mucous membrane; injuries..wound healing; water--electrolyte balance; histamine; exfoliative cytology; blood proteins..plasma proteins; proteases..pepsin; peptic ulcer

AM-08741 ROE, JOSEPH H., Sch. Med., George Washington Univ., Washington, D.C.
lipase; carbohydrases..amylase; pancreatic diseases; fatty acids; heparin; perfusion; bile acids and salts; diagnostic tests; radiolabeled iodine

AM-08757 SOLOMONS, CLIVE C., Univ. Colorado Med. Cr., Denver, Colo.
hydroxyapatite; polypeptides; collagen; bone; bone stress; calcification; intestinal absorption; radiolabeled calcium; radiolabeled phosphorus; phosphorylation; chondroitin sulfate; binding; potentials; amino acid sequence; vitamin D; parathyroid hormone

AM-08780 FLESHLER, BERTRAM, Western Reserve Univ. at Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
amino acids; intestines..small intestine; anserine; glycine; alanine; pyridoxine; diet; anemia; alcoholism; dietary deficiency; chickens; metabolic diseases

AM-08829 WEINSTEIN, IRWIN M., Cedars-Sinai Hosp., Los Angeles, Cal.
intestinal absorption; iron; pancreatic diseases; mucous membrane; diet; pancreatin; ethionine; hypochromic anemia; radiolabeled iron

AM-08899 HUBER, WILLIAM GEORGE, Col. Vet. Med., Univ. Illinois, Urbana, Ill.
peptic ulcer; diet; stomach..gastric juice; proteins; histidine; starvation; aminoguanidine; oxidases.. diamine oxidase; enzyme inhibitors; buffers; browning reaction

AM-08900 DECKER, JOHN L., Sch. Med., Univ. Washington, Seattle, Wash.
arthritis..rheumatoid arthritis; radioisotopes; therapy evaluation; binding; blood proteins..serum proteins; immunity; drugs interaction; gold

AM-08901 CLIFTON, JAMES A., Col. Med., Univ. Hospitals, State Univ. Iowa, Iowa City, Iowa
intestines..small intestine; intestinal motility; hypoxia; hypercapnia; body temperature; potentials.. slow potentials; neuromuscular transmission; gastrointestinal disorders; lung diseases

AM-08924 LEMANN, JACOB, Jr., Milwaukee County Hosp., Milwaukee, Wis.
calcium; acidosis; azotemia; sodium bicarbonate; diet; vitamin D; intestinal absorption

AM-08940 SANDBERG, DOUGLAS H., Sch. Med., Univ. Miami, Coral Gables, Fla.
bile acids and salts; children; age; sex difference; blood..serum; body fluids; diagnostic tests; liver function; liver diseases; familial Mediterranean fever; pancreatic cystic fibrosis; pruritus; pregnancy.. amniotic fluid; glycine; taurine; conjugates

AM-08941 PERIC-GOLIA, LUDVIK, Col. Med., Univ. Utah, Salt Lake City, Utah
cholesterol; bile acids and salts; bile

AM-08962 CRANE, ROBERT K., Chicago Med. Sch., Chicago, Ill.
brush border membranes; intestines; reaction sites; chemical structure--biological activity; cell differentiation; enzymes; proteins; radiation effects

AM-08995 MILLER, GEORGE H., Jr., Col. Med., Univ. Florida, Gainesville, Fla.
urinary calculi; urinary bladder; calcium phosphate; calcium oxalate; crystallization; infectious diseases; androgens; estrogens; minerals; age

AM-09014 BETHUNE, JOHN E., Sch. Med., Univ. Southern California, Los Angeles, Cal.
glucocorticoids; bone disorders; osteoporosis; radioisotopes..calcium 47; calcium; minerals; kidney function; intestines; androgens; estrogens; therapy

AM-09022 **HUBEL, KENNETH A., University Hospitals, Iowa City, Iowa**
pancreas; secretory mechanisms; pancreatic juice; tissue respiration; oxygen; carbon dioxide; ion exchange and transport; hydrogen--ion concentration; arteries..aorta; veins..pancreatic vein; blood flow

AM-09027 **HATCH, FRED E., Univ. Tennessee Med. Sch., Memphis, Tenn.**
oxygen tension; kidney..renal tubules; kidney disorders; diagnostic tests; oxidoreductases; vasopressin; mineralocorticoids; sickle cell anemia; polycythemia; azotemia; renal hypertension

AM-09028 **STEMMER, EDWARD A., Univ. Utah, Salt Lake City, Utah**
dumping syndrome; intestinal motility; pyloroplasty; blood vessels vasomotion; osmotic pressure; diet; vagotomy; histamine; insulin; serotonin; epinephrine

AM-09065 **HOPPING, JOE M., Central Missouri State Col., Warrensburg, Mo.**
iron; ion exchange and transport; potentials.. membrane potentials; intestinal absorption; reaction sites; fluorides; glycolysis; inosine; pyridoxine; dietary deficiency

AM-09079 **FRIEDMAN, BEN, Veterans Admin. Hosp., Dallas, Tex.**
gastric hypothermia; peptic ulcer; therapy evaluation; stomach..gastric juice; secretory mechanisms

AM-09082 **SCHWABE, ARTHUR D., Harbor Gen. Hosp., Torrance, Cal.**
oxidation; decarboxylation; radiolabeled carbon; tricaprylin; carbon dioxide; diagnostic tests; steatorrhea

AM-09086 **NEEDLE, MARK A., Montefiore Hosp., New York, N.Y.**
alkalosis; acid--base equilibrium; therapy evaluation; potassium; chlorides; bicarbonates; creatinine

AM-09096 **RICH, CLAYTON, Sch. Med., Univ. Washington, Seattle, Wash.**
calcium; intestinal absorption; parathyroid hormone; vitamin D; bone disorders; age; radioisotopes.. calcium 45; radioisotopes..calcium 47

AM-09123 **KIRSNER, JOSEPH B., Sch. Med., Univ. Chicago, Chicago, Ill.**
conferences; travel; gastrointestinal disorders; inflammation

AM-09159 **DRAPANAS, THEODORE, Univ. Pittsburgh Hlth. Cr., Pittsburgh, Pa.**
hepatectomy; carbohydrates; amino acids; fatty acids; acidosis; Krebs cycle; radiolabeled carbon; liver tissue (cells) transplantation

AM-09181 **DUNPHY, J. ENGLEBERT, Univ. California Med. Cr., San Francisco, Cal.**
bile ducts obstruction; gallstones; liver function tests; phosphomonoesterases..alkaline phosphatase; transcarbamylases..ornithine transcarbamylase; biliary tract prosthesis

AM-09236 **McNALLY, EDMUND F., State Univ. New York, Downstate Med. Cr., Brooklyn, N.Y.**
gastrointestinal system; intestinal motility; abdomen..intra--abdominal pressure; muscles.. smooth muscle; muscle stretch reflex; muscle tone; ascites; paraplegia; pulmonary emphysema; parasympathomimetic agents..prarasympatholytic agents; muscle relaxation

AM-09260 **HIRSCHOWITZ, BASIL I., Med. Col. Alabama, Birmingham, Ala.**
stomach..gastric juice; nervous system..vagus nerve; hypoglycemia; 2--deoxy--D--glucose; sugars; diabetes; peptic ulcer; vagotomy; brain..hypothalamus; insulin

AM-09264 **FLETCHER, T. LLOYD, Sch. Med., Univ. Washington, Seattle, Wash.**
gastrin; stomach..antrum; mucous membrane; chemical structure--biological activity

AM-09333 **GOLDSMITH, CARL, Sch. Med., Georgetown Univ., Washington, D.C.**
proteins; urea; sodium; natriuresis; dehydration (body fluids); kidney function; azotemia

AM-09364 **GONICK, HARVEY C., Univ. California Cr. Hlth Sci., Los Angeles, Cal.**
acid--base equilibrium; nephritis; acidosis; kidney..renal tubular transport; kidney function; organic acids; organic bases; diet; congenital abnormalities

AM-09384 **BICKS, RICHARD O., Kennedy Veterans Admin. Hosp., Memphis, Tenn.**
hypersensitivity..delayed hypersensitivity; gastrointestinal system; malabsorption syndrome; 6--((1--methyl--4--nitro--5--imidazolyl) thio) purine; cortisone; radiation effects; 2, 4--dinitrochlorobenzene; radiolabeled iodine; infant animals

AM-09385 **REICHLE, FREDERICK A., Temple Univ. Hospital, Philadelphia, Pa.**
serotonin; indoles; histamine; dumping syndrome; blood cells..thrombocytes; glucose

AM-09386 **GOLTZ, ROBERT W., Univ. Minnesota Hosp., Minneapolis, Minn.**
skin; connective tissue diseases; elastin; proteases.. elastase; enzymes inhibitors..elastase inhibitors; hydroxyproline; mucopolysaccharides; iron; calcification

AM-09397 **DI FERRANTE, NICOLA M., Retina Fdn., Boston, Mass.**
mucopolysaccharides; hyaluronic acid; chondroitin sulfate; arthritis..rheumatoid arthritis; immunology.. antigens; cartilage; connective tissue diseases; immunology..antibodies; tritium; heparin

AM-09399 **JORDAN, PAUL H., Jr., Sch. Med., Baylor Univ., Houston, Tex**
stomach..gastric juice inhibitors; stomach..gastric juice; stomach, antrum; secretory mechanisms; nervous system..vagus nerve; stimulus; intestines.. duodenum; gastric pouch; peptic ulcer

AM-09438 **MINTZ, DANIEL H., Magee Women's Hosp., Pittsburgh, Pa.**
kidney function; phosphorus; parathyroid glands disorders; thyroid gland disorders; diurnal variation; triiodothyronine; calcium; parathyroid hormones; cortisone

AM-09453 **RIGLER, STANLEY P., Sch. Med., Wayne State Univ., Detroit, Mich.**
gastrin; stomach..antrum; gastrointestinal surgery; gastric pouch; hydrochloric acid; vagotomy

AM-09497 **HSIA, S.L., Sch. Med., Univ. Miami, Coral Gables, Fla.**
steroid hormones; sterols; skin; hydrocortisone; metabolites

AM-09663 **HAMMOND, JAMES B., Veterans Admin. Res. Hosp., Chicago, Ill.**
dissacharide (oligosaccharide) intolerance; adults; intestines; carbohydrases..beta--galactosidase; cell components; subcellular components; electron microscopy

AM-09711 **CURTISS, PAUL H., Jr., Col. Med., Ohio State Univ., Columbus, Ohio**
collagen; cartilage; pyrogens; joints; arthritis; molecular structure; reaction sites; chondroitin sulfate; mucoproteins

AM-09772 **McDUFFIE, FREDERIC C., Mayo Fdn., Rochester, Minn.**
rheumatoid factors; gamma globulin; proteolysis; proteases ..papain; gamma globulin 7S; beta globulins; immunological tests; serology

AM-09790 **SUN, DAVID C.H., Veterans Admin. Hosp., Phoenix, Ariz.**
mucus; hydrochloric acid; mucous membrane; stomach.. gastric juice; peptic ulcer; nervous system..vagus nerve; adrenal cortex hormones; ACTH

AP-00266 **McCARROLL, JAMES R., Cornell University Med. Col., New York, N. Y.**
air pollution; respiratory diseases; geographical sites..New York; climate; monitoring; survey; computer analysis; socioenvironment..urban areas

CA-00288 **HOLLANDER, FRANKLIN, Mt. Sinai Hosp., New York, N.Y.**
mucus; mucoproteins; fractionation; mucopolysaccharides; mucous membrane; stomach; electrolytes

CA-01440 **LAWRENCE, JOHN H., Donner Lab., Univ. California, Berkeley, Cal.**
neoplasms; leukemia; anemia; blood cells; population dynamics, cell; hematopoiesis; radiolabeled; metabolites; transplantation..organ transplantation; bone marrow transplantation; radiation effects; radioisotopes..yttrium 90; primates..monkeys; radiolabeled phosphorus; radiolabeled iron

CA-02912 **HAMBRICK, GEORGE W., Jr., Univ. Pennsylvania, Philadelphia, Pa.**
basal cell carcinoma; carcinogenesis; carcinogens; metaplasia; radiation effects; seborrheic keratosis; skin; skin neoplasms; squamous cell carcinoma; transparent chamber technique; transplantation; viruses..oncogenic viruses; x-rays

CA-03081 **LI, YU-TEH, Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.**
glycoproteins; mucopolysaccharides; neoplasms; metastasis; tissue; immunity

CA-03809 **RAWSON, RULON W., Sloan-Kettering Inst. Cancer Res., New York, N.Y.**
growth hormones; chemical structure--biological activity; hypophysectomy; radioisotopes..yttrium 90; oxidoreductases; transhydrogenases..steroid transhydrogenase; cancer; mammary gland; prostate; thyroid gland; ovary; uterus..endometrium; uterus..cervix; melanoma; choriocarcinoma; lymphoma; diabetes; retinopathy; kidney; kidney function; 3--ketosteroids

CA-03990 **LONDON, MORRIS, North Shore Hosp., Manhasset, N.Y.**
uric acid; uricase; allantoin; fungi..Candida utilis; gout; chemotherapy

CA-04036 **BLANK, HARVEY, Sch. Med., Univ. Miami, Coral Gables, Fla.**
keratins; fungi; fungicides; bacteria; erythrasma; skin neoplasms; viruses..oncogenic viruses; viruses.. molluscum contagiosum virus; viruses..herpes zoster virus; virus warts

CA-04980 **HIRSCHOWITZ, BASIL I., Univ. Alabama Med. Cr., Birmingham, Ala.**
stomach..gastric juice; stomach neoplasms; gastrointestinal disorders; insulin; electrolytes; blood; gastric pouch; 2--deoxy--D--glucose

CA-05197 **PEARSON, OLOF H., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
growth hormones; blood..serum; bioassay; immunological tests; hypophysectomy; diabetic retinopathy; radioisotopes..calcium 47; radioisotopes..phosphorus 32; bone neoplasms; metastasis; adrenal gland neoplasms; carcinoma; DDD; cancer chemotherapy; diabetes; dwarfism; neoplasms; therapy; radiation therapy

CA-05673 **NELSON, ROBERT S., Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.**
intestines..small intestine; intestinal neoplasms; radioautography; radiolabeled cobalt; cancer chemotherapy; vitamin B12; intestinal absorption; toxicology; biopsy techniques

(contd)

GENERAL MEDICINE (CONTD)

CA-05887 ZELICKSON, ALVIN S., Univ. Minnesota Hosp., Minneapolis, Minn.
skin; fetus; aging; skin neoplasms; carcinogenesis; melanocytes; melanin; phagocytosis; capillaries

CA-06221 CLARK, WALLACE H., Jr., Massachusetts Gen. Hosp., Boston, Mass.
electron microscopy; cell adhesion; skin; skin neoplasms; acantholysis; pemphigus; melanin; melanocytes; radiation effects; ultraviolet rays; cell components..tonofibrils; cell components..intercellular bridges; cell components.. cell membrane

CA-06462 PROUT, GEORGE R., Jr., Med. Col. Virginia, Richmond, Va.
prostate; prostate diseases; prostate fluid; enzymes.. isoenzymes; hormones; oxidoreductases..lactate dehydrogenases; immunology..antigens; immunodiffusion test; prostate neoplasms

CA-06487 GERSHBEIN, LEON L., Northwest Inst. Med. Res., Chicago, Ill.
sebum; hair; sebaceous glands; lipids; hydrocarbons; carcinogenesis; fractionation; chromatographyx; ethnic groups..whites; ethnic groups..Negroes

CA-06872 SHORTER, ROY G., Mayo Assn., Rochester, Minn.
cancer chemotherapy; carcinogens; epithelium; 5-fluoro-2'-deoxyuridine; 5-fluorouracil; gastrointestinal neoplasms; lung neoplasms; metastasis; regeneration; respiratory system; tritium

CA-07123 WATERHOUSE, CHRISTINE, Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
carbohydrates; fasting; fatty acids; feeding; glucose; lipoproteins..plasma lipoproteins; liver cirrhosis; liver neoplasms; metastasis; triglycerides

CA-07273 CHAVIN, WALTER, Sch. Liberal Arts, Wayne State Univ., Detroit, Mich.
skin; melanin; melanoblasts; melanocytes; tyrosine; DOPA; radiolabeled carbon

CA-07744 GONDER, MAURICE J., Veterans Admin. Hosp., Buffalo, N.Y.
prostate fluid; proteins; disease classification; prostate diseases; therapy; fractionation; diagnostic tests; immunology..antigens; enzymes; age; prostate

CA-07758 SCHATTEN, WILLIAM E., Piedmont Hosp., Atlanta, Ga.
hypercalcemia; hyperparathyroidism; neoplasms transplantation; calcium; phosphorus; blood..serum; necrosis; parathyroid glands transplantation

CA-08007 MYERS, W.P. LAIRD, Sloan-Kettering Inst. Cancer Res., New York, N.Y.
hypercalcemia; neoplastic growth; parathyroid glands; parathyroid hormone; bone; organ culture; radiolabeled calcium; parathyroidectomy; culture media

CA-08345 CRISSEY, JOHN T., Sch. Med., Univ. Southern California, Los Angeles, Cal.
liquid crystals; cholesterol analogs; skin; temperature; colorimetry; vasoactive agents; inflammation; skin neoplasms; antimitotic agents

CA-08505 ZACKHEIM, HERSCHEL S., Sch. Med., Wayne State Univ., Detroit, Mich.
carcinogenesis; carcinogens; skin neoplasms; species; basal cell carcinoma; epithelioma

CA-09386 JEFFRIES, GRAHAM H., Sch. Med., Cornell Univ., N.Y.C.
intrinsic factor; stomach..gastric juice; radioautography; immunofluorescence; mucous membrane; vitamin B12; stomach absorption; gastrointestinal disorders; liver; pernicious anemia; immunology; secretory mechanisms

CA-09467 KIRSNER, JOSEPH B., Sch. Med., Univ. Chicago, Chicago, Ill.
carcinoma; colitis..ulcerative colitis; exfoliative cytology; intestinal neoplasms..colon neoplasms; intestinal neoplasms..rectum neoplasms; intestinal polyps..colon polyps; intestinal polyps..rectosigmoid polyps; latent cancer; therapy

CA-09791 HASEGAWA, JUNJI, Northwestern Univ. Med. Cr., Chicago, Ill.
proteases..exopeptidases; skin neoplasms; cryostat

CD-00003 MENDEZ-BRYAN, RICARDO, Sch. Med., Univ. Puerto Rico, San Rico
arthritis..rheumatoid arthritis; geographical sites.. Puerto Rico; epidemiology; socioeconomics; climate.. tropical climate; serology

CD-00005 MIKKELSEN, WILLIAM M., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
genetics; hyperuricemia; age; sex difference; blood pressure; glucose tolerance; cholesterol; uric acid

CD-00008 KAPLAN, STANLEY B., Univ. Tennessee, Memphis, Tenn.
biologic false positive reaction; deoxyribonucleic acid; immunofluorescence; connective tissue diseases; liver function; syphilis; immunology..antibodies

CD-00095 MIKKELSEN, WILLIAM M., Univ. Michigan Med. Cr., Ann Arbor, Mich.
arthritis..rheumatoid arthritis; arthritis osteoarthritis; epidemiology; diagnostic tests; serology; rheumatoid factors; community service; geographical sites..Michigan

FR-00049 EBERT, RICHARD V., Univ. Arkansas Med. Cr., Little Rock, Ark.
clinical research centers

FR-00085 RICHMOND, JULIUS B., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
clinical research centers; children; genetics; nervous system neoplasms; psychophysics; congenital abnormalities; infectious diseases; psychosomatic medicine

GM-04760 BLANK, IRVIN H., Massachusetts Gen. Hosp., Boston, Mass.
alcohols; diffusion; esters; membrane permeability; skin; surface active agents

GM-06271 FREINKEL, RUTH K., Mass. Gen. Hosp., Boston, Mass.
sebaceous glands; hormones; ultraviolet rays; radiation effects; diet; acne vulgaris

GM-07181 NEELY, WILLIAM A., Sch. Med., Univ. Mississippi, Jackson, Miss.
children; climate..humidity; deuterium oxide; diffusion; infants (human); radiation effects..whole body radiation; skin; temperature

GM-09790 STRAUSS, ELLIOTT W., Sch. Med., Harvard Univ., Boston, Mass.
fats; intestinal absorption; fatty acids; glycerides; lipases..pancreatic lipase; bile acids and salts; emulsions; micelle formation (chemistry)

GM-10212 BLANK, FRITZ, Skin and Cancer Hosp., Philadelphia, Pa.
fungi..dermatophytes; proteases..keratinases; keratins; nitrogen

GM-10255 NIX, THOMAS E., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
electron microscopy; keratinization; melanocytes; radiation effects; skin; ultraviolet rays

GM-10299 LEVER, WALTER F., Med. Sch., Tufts Univ., Medford, Mass.
skin neoplasms; epithelioma; basal cell carcinoma; oxidoreductases; phosphatases; oxidoreductases..monoamine oxidase; histogenesis; carcinogenesis

GM-10903 BLOCKER, T.G., Jr., Univ. Texas Med. Br., Galveston, Tex.
skin; injury..burns; injury..wound healing; proteins; ascorbic acid; collagen; radiolabeled; sulfur compounds; polysaccharides; glucose; nucleic acids; cell division; Krebs cycle; immunology

GM-12153 HOOGENBOOM, BERNARD E., Gustavus Adolphus Col., St. Peter, Minn.
sulfur compounds; sulfocarboxylic acid; chemical structure--biological activity; antineoplastic agents; functional groups; synthesis, chemical structure

GM-12203 PLONSEY, ROBERT, Case Inst. Technology, Cleveland, Ohio
heart; electrocardiography; instrumentation--methodology; homeostatis; computer simulation; neuromuscular system; neuromuscular transmission; nerves..neurons; mathematical models; biomedical engineering; research programs; respiratory system

GM-12874 HERSHEY, FALLS B., Michael Reese Hosp., Med. Cr., Chicago, Ill.
enzymes; skin; injury..burns; regeneration; radiolabeled calcium; neutron activation analysis (unspecified)

HD-00118 LING, SHUN M., Childrens Hosp., Los Angeles, Cal.
children; calcium; parathyroid glands disorders; bone disorders; congenital abnormalities; chondrodystrophy; dwarfism; kidney disorders; instrumentation--methodology; ion exchange and transport; stable isotope labeled calcium; neutron activation analysis (unspecified)

HD-00291 PRYLES, CHARLES V., Boston City Hosp., Boston, Mass.
urinary tract disorders; bacterial diseases; pyelonephritis; children; infants, human; therapy evaluation; longitudinal study

HD-00309 MARCHANT, DOUGLAS J., New England Center Hosp., Boston, Mass.
urinary tract disorders; pelvis neoplasms; pregnancy; muscle..smooth muscle; chemotherapy; sex difference; urinary bladder; ureter; urinary tract motility

HD-00329 O'BRIEN, DONOUGH, Med. Cr., Univ. Colorado, Denver, Colorado
tryptophan; mental retardation; children mongolism; radiolabeled carbon; kynurenine; pyridoxine; epilepsy myoclonic infantile; oxalates; schizomycin

HD-00661 BRUCK, ERIKA, Sch. Med., Univ. Buffalo, Buffalo, N.Y.
respiration; infant human; children; body water loss..insensible water loss; acidosis; fever; oxygen consumption

HD-00688 BEIERWALTES, WILLIAM H., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
cretinism; pregnancy; thyroid hormones; preventive medicine; infants, human; thyroid function; prediction; diagnostic tests; thyroxine-binding proteins; immunology..antibodies; fetus; thyroidectomy; maternal-fetal

HD-00851 SANFORD, JAY P., Univ. Texas Southwestern Medical Sch., Dallas, Texas
pyelonephritis; primates; bacteriuria; immunity; hypertension (systemic); chemotherapy; longitudinal study; pregnancy

HD-01028 KLIGMAN, ALBERT M., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
aging; skin; membrane permeability and transport; microcirculation; connective tissue; diffusion; elastin; basement membrane; stress; radiation effects; melanocytes; secretory mechanisms; cell division.. mitosis; hypersensitivity..delayed hypersensitivity; hormones; skin transplantation; radiolabeled carbon

HD-01176 **ADAMS, REUBEN H., Sch. Med., Univ. Texas, Dallas, Tex.**
pregnancy; liver function; progesterone; estrogens; bromsulphalein

HE-01652 **WAGNER, RICHARD, Sch. Med., Tufts Univ., Boston, Mass.**
dehydrogenases..glucose 6-phosphate dehydrogenase; dehydrogenases..phosphogluconate dehydrogenase; blood cells..thrombocytes; blood cells..leukocytes; glycogenosis; pentose pathway; liver; phosphorylases; heart..myocardium

HE-01439 **COMBES, BURTON, Southwestern Med. Sch., Univ. Texas, Dallas, Tex.**
liver circulation; liver; enzymes; bromsulphalein; glutathione; infant animals; pregnancy

HE-03732 **PARRISH, ALVIN E., Sch. Med., George Washington Univ., Washington, D.C.**
bacteria..Streptococcus; glomerulonephritis; immunological tests; kidney function

HE-03833 **FARBER, EUGENE M., Stanford Univ., Stanford, Cal.**
blood flow; skin diseases; vasospasms; atopic dermatitis; psoriasis; body temperature; drugs; therapy; irritants..skin irritants; acne vulgaris; varicose ulcers; vitiligo; dermatitis seborrheica

HE-04192 **FRANK, LAWRENCE, State Univ. New York, Brooklyn, N.Y.**
capillaries; inflammation; membrane permeability; skin diseases; steroids; vascular disorders

HE-04630 **LEEVY, CARROLL M., Col. Med., Seton Hall, Jersey City, N.J.**
liver circulation; portal hypertension; blood vessels shunts..portacaval shunt; liver cirrhosis

HE-04957 **MASSELL, BENEDICT F., Children's Hosp. Med. Cr., Boston, Mass.**
rheumatic fever; rheumatic heart diseases; streptococcal infections; serotypes; therapy; adrenal cortex hormones; heart enlargement; acetylsalicylic acid; genetics; heart failure.. congestive heart failure; angina pectoris; family; epidemiology; valvular heart diseases..aortic insufficiency

HE-05286 **HADDOX, CHARLES H., Jr., Natl. Children's Cardiac Hosp., Miami, Fla.**
urine; 5-methoxytryptamine; blood; rheumatic fever; rheumatic heart diseases; metabolites; diagnostic tests; tryptophan; serotonin

HE-05773 **GIORDANO, CARMELO, Sch. Med., Univ. Naples, Naples, Italy**
amino acid; kidney disorders; oxidative phosphorylation; urea

HE-05774 **DE VRIES, ANDRE, Beilinson Hosp., Petah Tikva, Israel**
urinary calculi; climate; geographical sites; water supply; ethnic groups; education; epidemiology

HE-06508 **HARVEY, W. PROCTOR, Georgetown Univ., Washington, D.C.**
myocarditis; research programs; diagnostic tests; epidemiology; therapy

HE-06642 **DOHERTY, JAMES E., Univ. Arkansas Med. Cr., Little Rock, Ark.**
tritium; digoxin; heart failure..congestive heart failure; pulmonary heart disease; hyperthyroidism; hypothyroidism; arrhythmia, cardiac; renal failure; binding; diabetes insipidus; kidney transplantation; proteins; biliary fistula

HE-06853 **SEARLE, GORDON W., Sch. Med., State Univ. Iowa, Iowa City, Iowa**
cholesterol; bile acids and salts; cholesterol inhibitors; triparanol; therapy; atherosclerosis; intestinal absorption

HE-07188 **SAMUEL, PAUL, L.I. Jewish Hosp., New Hyde Park, N.Y.**
cholesterol; neomycin; cholesterol inhibitors; germ--free; lipids..serum lipids

HE-07284 **GOLDBERG, MARTIN, Hosp. of Univ. Pennsylvania, Philadelphia, Pa.**
radiolabeled krypton; blood flow; oliguria; hemolysis; vasopressin; water--electrolyte balance; hyponatremia; hypotension; aldosterone; hydrocortisone; antidiuresis; diabetes insipidus; diuretics; diuresis; osmotic pressure; ion exchange and transport; sodium; kidney function; urea

HE-07576 **PIERCE, JOHN A., Univ. Arkansas Med. Cr., Little Rock, Ark.**
bronchial mucus; bronchitis; pulmonary emphysema; pulmonary fibrosis; lung neoplasms; heart failure.. congestive heart failure; sputum; viscosity; carbohydrates; amino acid; nitrogen; smoking; bacteria

HE-07839 **PORUSH, JEROME G., Maimonides Hosp., Brooklyn, N.Y.**
aldosterone; kidney function; reaction sites; hyperaldosteronism; diuresis; water--electrolyte balance; steroid spirolactones; ascites; liver cirrhosis

HE-07969 **LAVENDER, A. RAY, Univ. Chicago, Chicago, Ill.**
body fluids; kidney function; water-electrolyte balance; heart failure..congestive heart failure; calcium; phosphates; longitudinal study

HE-08260 **MERRILL, JOHN P., Peter Bent Brigham Hosp., Boston, Mass.**
uremia; therapy; transplantation; histocompatibility; kidney; immune sera; cells; hydrogen--ion concentration; blood cells..leukocytes

HE-08689 **LEONHARDT, KURT O., Memorial Hosp., Danville, Va.**
blood flow; diuresis; kidney..renal medulla; kidney disorders; osmotic pressure; oxygen tension; urinary bladder; urinary tract absorption; vasopressin

HE-08911 **WEINSTEIN, ARVIN B., Univ. Wisconsin, Madison, Wis.**
uremia; dextran; sephadex gel filtration; instrumentation-methodology; hemodialysis; blood cells; radiolabeled chromium; sterilization

HE-09581 **LEVINSKY, NORMAN G., Sch. Med., Boston Univ., Boston, Mass.**
hypernatremia; edema (generalized); water--electrolyte balance; veins..vena cava superior; venous occlusions; kidney..glomerular filtration; kidney function; aldosterone; hormones; blood flow

HE-10043 **HUTCHINGS, JOHN J., Univ. California Med. Cr., San Francisco, Cal.**
maleic acid; kidney..renal tubular transport; penicillamine; therapy evaluation; cystinosis; children; infant animals..newborn

HE-10044 **MORRIS, R. CURTIS, Univ. California Med. Cr., San Francisco, Cal.**
kidney..renal tubular transport; hyperglobulinemia; gamma globulin; blood proteins..serum proteins

NB-02322 **SOBOTAK, HARRY, Mt. Sinai Hosp., N.Y.C.**
bilirubin; kernicterus; infants, animals; sulfhydryls; blood-brain barrier; p-chloromercuri-benzoate

NB-04796 **STAUBITZ, WILLIAM J., Children's Hosp., Buffalo, N.Y.**
electrodes; electronic stimulators, radiofrequency controlled; instrumentation-methodology; nerves.. denervation; paraplegia; urinary bladder..intravesical pressure; urinary bladder stimulator; urinary incontinence

NB-05114 **SOTOS, JUAN F., Children's Hosp., Columbus, Ohio**
dehydration (body fluids); convulsions; therapy evaluation; hypernatremia; acidosis; hyperosmolarity; glucose; glycolysis; venous infusions; saline solutions; children; mannitol; radiolabeled carbon

NB-05947 **RENUART, ADHEMAR W., Murdoch Cr., Butner, N.C.**
mucopolysaccharides; reaction sites; diet; drugs interaction; carbohydrases..lysozyme; mental retardation; epilepsy myoclonic infantile; lipochondrodystrophy; mental disorders

OH-00034 **SAMITZ, M.H., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
chromium; proteins; oxidation-reduction; radiolabeled chromium; binding; skin; skin absorption

OH-00108 **KLIGMAN, ALBERT M., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
irritants..skin irritants; occupational hazards; age; sex difference; ethnic groups; environment; toxicology

OH-00118 **GOLDMAN, LEON, Cincinnati Gen. Hosp., Cincinnati, Ohio**
eye disorders; lasers; photocoagulation; radiation effects; radiation hazards; radiation protection; skin diseases

OH-00137 **SUSKIND, RAYMOND R., Sch. Med., Univ. Oregon, Portland, Ore.**
cell components; climate..humidity; dermatitis; environment; hypersensitivity; irritants..skin irritants; occupational diseases; primates..monkeys; radiolabeled carbon; radiolabeled sulfur; skin; solutions..aqueous solutions; temperature; tritium

OH-00145 **MAGUIRE, HENRY C., Jr., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
contact dermatitis; hypersensitivity; blood cells..leukocytes; 2-bis(2-chloroethyl)amino-2H-1,3,2-oxazaphosphorinane 2-oxide; dinitrochlorobenzene; croton oil; leukopenia; endothelium permeability; irritants..skin irritants

OH-00185 **EPSTEIN, WILLIAM L., Univ. California Med. Cr., San Francisco, Cal.**
occupational hazards; contact dermatitis; chemicals hypersensitivity; insecticides; skin tests; passive sensitization transfer factor; blood cells..leukocytes; immunity.. cross immunity

OH-00206 **HARBER, LEONARD C., New York University Med. Cr., New York, N.Y.**
photosensitivity; skin; temperature; climate.. humidity; ultraviolet rays; radiation effects; genetics; porphyrins; collagen diseases; erythema

RH-00280 **MALKINSON, FREDERICK D., Sch. Med., Univ. Chicago, Chicago, Ill.**
cell death; cell differentiation; chemotherapy; drugs; growth; hair; radiation effects; radiation protection; x-rays

RH-00390 **FORBES, P. DONALD, Barrington Col., Barrington, R.I.**
pigmentation disorders; hair; aging; ionizing radiation; MSH; pigments; radiation effects; melanin; skin; mutations

GENERAL RESEARCH SUPPORT

FR-05300 **McCALLUM, CHARLES A., Univ. Alabama Med. Cr., Birmingham, Ala.**
general research support; dental research

FR-05301 **TOCCHINI, JOHN, Col. Physicians, Surg., Univ. Pacific, San Francisco, Cal.**
general research support

FR-05302 **SMITH, CHARLES T., Loma Linda Univ., Loma Linda, Cal.**
general research support; dental research

(contd)

LISTING OF GENERAL RESEARCH AREAS

GENERAL RESEARCH SUPPORT (CONTD)

FR-05303 McNULTY, R.W., Univ. So. California, Los Angeles, Cal.
general research support: dental research

FR-05304 SOGNNAES, REIDAR F., Univ. California, Los Angeles, Cal.
general research support: dental research

FR-05305 FLEMING, WILLARD C., Univ. California, San Francisco, Cal.
general research support: dental research

FR-05306 HESS, WALTER C., Georgetown Univ., Washington, D.C.
general research support: dental research

FR-05307 DIXON, RUSSELL A., Col. Dent., Howard Univ., Washington, D.C.
general research support: dental research

FR-05308 MOULTON, GEORGE H., Sch. Dent., Emory Univ., Atlanta, Ga. general research support: dental research

FR-05309 YALE, SEYMOUR H., Col. Dent., Univ. Illinois, Chicago, Ill.
general research support: dental research

FR-05310 TOTO, PATRICK D., Sch. Dent., Loyola Univ., Chicago, Ill.
general research support: dental research

FR-05311 TEUSCHER, GEORGE W., Northwestern Univ., Chicago, Ill.
general research support: dental research

FR-05312 HINE, MAYNARD K., Indiana Univ. Fdn., Bloomington, Ind.
general research support: dental research

FR-05313 LOVETT, DUANE W., Col. Dent., State Univ. Iowa, Iowa City, Iowa
general research support: dental research

FR-05314 MORRIS, ALVIN L., Univ. Kentucky Med. Cr., Lexington, Ky.
general research support: dental research

FR-05315 MYERS, RAYMOND E., Sch. Dent., Univ. Louisville, Louisville, Ky.
general research support: dental research

FR-05316 JEANSONNE, EDMUND E., Sch. Dent., Loyola Univ., New Orleans, La.
general research support; dental research

FR-05317 SALLEY, JOHN J., Sch. Dent., Univ. Maryland, Baltimore, Md.
general research support: dental research

FR-05318 GREEP, ROY O., Sch. Dent. Med., Harvard Univ., Boston, Mass.
general research support: dental research

FR-05319 CALISTI, LOUIS J.P., Sch. Dent. Med., Tufts Univ., Medford, Mass.
general research support: dental research

FR-05320 BARALT, A.R., Jr., Sch. Dent., Univ. Detroit, Detroit, Mich.
general research support: dental research

FR-05321 MANN, WILLIAM R., Sch. Dent., Univ. Michigan, Ann Arbor, Mich.
general research support: dental research

FR-05322 SCHAFFER, ERVIN M., Sch. Dent., Univ. Minnesota, Minneapolis, Minn.
general research support; dental research

FR-05323 ROBINSON, HAMILTON B.G., Sch. Dent., Univ. Missouri, Columbia, Mo.
general research support: dental research

FR-05324 FLIEDER, DONALD E., Sch. Dent., St. Louis Univ., St. Louis, Mo.
general research support: dental research

FR-05325 BOLING, LEROY R., Sch. Dent., Washington Univ., St. Louis, Mo.
general research support: dental research

FR-05326 SHADDY, RAYMOND W., Sch. Dent., Creighton Univ., Omaha, Nebr.
general research support: dental research

FR-05327 IRELAND, RALPH L., Col. Dent., Univ. Nebraska, Lincoln, Nebr.
general research support: dental research

FR-05328 WILSON, WALTER A., Sch. Dent., Fairleigh Dickson Univ., Teaneck, N.J.
general research support: dental research

FR-05329 TOBIN, DANIEL F., Seton Hall Col. Dent., Jersey City, N.J.
general research support: dental research

FR-05330 PHIPPS, GRANT T., Research Fdn. State Univ. New York, Albany, N.Y.
general research support; dental research

FR-05331 SMITH, GILBERT P., Sch. Dent., Oral Surg., Columbia Univ, N.Y.C.
general research support: dental surgery

FR-05332 NAGLE, RAYMOND J., New York Univ., N.Y.C.
general research support: dental research

FR-05333 BRAUER, JOHN C., Univ. North Carolina, Chapel Hill, N.C.
general research support: dental research

FR-05334 WILSON, JOHN R., Ohio State Univ. Res. Fdn., Columbus, Ohio
general research support: dental research

FR-05335 BOYLE, PAUL E., Sch. Dent., Western Reserve Univ., Cleveland, Ohio
general research support: dental research

FR-05336 NOYES, HAROLD J., Univ. Oregon Dent. Sch., Portland, Ore
general research support: dental research

FR-05337 WILLIAMS, NED B., Sch. Dent., Univ. Pennsylvania, Philadelphia, Pa.
general research support: dental research

FR-05338 FORREST, EDWARD J., Sch. Dent., Univ. Pittsburgh, Pittsburgh, Pa.
general research support: dental research

FR-05339 McCREA, MARION W., Sch. Dent., Temple Univ. Philadelphia, Pa.
general research support: dental research

FR-05340 HARRIS, NORMAN O., Sch. Dent., Univ. Puerto Rico, San Juan, P.R.
general research support; dental research

FR-05341 MOBLEY, E.L., Sch. Dent., Meharry Med. Col., Nashville, Tenn.
general research support: dental research

FR-05342 PETERSON, SHAILER, Col. Dent., Univ. Tennessee, Memphis, Tenn.
general research support: dental research

FR-05343 BISHOP, JACK G., Col. Dent., Baylor Univ., Dallas, Texas
general research support: dental research

FR-05344 OLSON, JOHN VICTOR, Univ. Texas, Houston, Texas
general research support: dental research

FR-05345 LYONS, HARRY, Sch. Dent., Med. Col. Virginia, Richmond, Va.
general research support: dental research

FR-05346 HICKEY, MAURICE J., Grad. Sch., Univ. Washington, Seattle, Wash.
general research support: dental research

FR-05347 RANDOLPH, KENNETH V., West Virginia Univ., Morgantown W. Va.
general research support: dental research

FR-05348 ALEXANDER, L.C., Marquette Univ., Milwaukee, Wis.
general research support: dental research

FR-05349 HILL, S. RICHARDSON, Jr., Univ. Alabama Med. Cr., Birmingham, Ala.
general research support: medical research

FR-05350 SHOREY, WINSTON K., Univ. Arkansas Med. Cr., Little Rock, Ark.
general research support: medical research

FR-05351 BELL, GRACE B., California Col. Med., Los Angeles, Cal.
general research support: medical research

FR-05352 HINSHAW, DAVID B., Sch. Med., Loma Linda Univ., Loma Linda, Cal.
general research support: medical research

FR-05353 RAFFEL, SIDNEY, Sch. Med., Stanford Univ., Palo Alto, Cal.
general research support; medical research

FR-05354 MELLINKOFF, SHERMAN M., Sch. Med., Univ. California, Los Angeles, Cal.
general research support: medical research

FR-05355 REINHARDT, W.O., Univ. California Med. Cr., San Francisco, Cal.
general research support: medical research

FR-05356 EGEBERG, ROGER O., Sch. Med., Univ. Southern California, Los Angeles, Cal.
general research support; medical research

FR-05357 CONGER, JOHN J., Sch. Med., Univ. Colorado, Denver, Colo.
general research support: medical research

FR-05358 LIPPARD, VERNON W., Sch. Med., Yale Univ., New Haven, Conn.
general research support: medical research

FR-05359 GRIFFIN, ANGUS M., Sch. Med., George Washington Univ., Washington, D.C.
general research support: medical research

FR-05360 HESS, WALTER C., Sch. Med., Georgetown Univ., Washington, D.C.
general research support: medical research

FR-05361 HARDEN, K. ALBERT, Col. Med., Howard Univ., Washington, D.C.
general research support: medical research

FR-05362 SUTER, EMANUEL, Grad. Sch., Univ. Florida, Gainesville, Fla.
general research support; medical research

FR-05363 NICHOLSON, HAYDEN C., Sch. Med., Univ. Miami, Coral Gables, Fla.
general research support: medical research

FR-05364 RICHARDSON, ARTHUR P., Sch. Med., Emory Univ., Atlanta, Ga.
general research support: medical research

FR-05365 AHLQUIST, R.P., Med. Col. Georgia, Augusta, Ga.
general research support: medical research

FR-05366 KUSHNER, DANIEL S., Chicago Med. Sch., Chicago, Ill.
general research support: medical research

FR-05367 BENNETT, H. STANLEY, Sch. Med., Univ. Chicago, Chicago, Ill.
general research support: medical research

FR-05368 SHEEHAN, JOHN F., Stritch Sch. Med., Loyola Univ., Chicago, Ill.
general research support: medical research

FR-05369 GROVE, WILLIAM J., Col. Med., Univ. Illinois, Chicago, Ill.
general research support: medical research

FR-05370 YOUNG, RICHARD H., Sch. Med. Northwestern Univ., Chicago, Ill.
general research support: medical research

FR-05371 MERRITT, DORIS H., Indiana Univ. Fdn., Bloomington, Ind.
general research support; medical research

FR-05372 HARDIN, ROBERT C., Sch. Med., State Univ. Iowa, Iowa City, Iowa
general research support: medical research

FR-05373 MILLS, RUSSELL C., Univ. Kansas Med. Cr., Kansas City, Kansas
general research support: medical research

FR-05374 WILLARD, WILLIAM R., Sch. Med., Univ. Kentucky, Lexington, Ky.
general research support: medical research

FR-05375 SMITH, DONN L., Sch. Med., Univ. Louisville, Ky.
general research support: medical research

FR-05376 THURBER, GEORGE A., Sch. Med., Louisiana State Univ., New Orleans, La.
general research support; medical research

FR-05377 SPRAGUE, CHARLES C., Sch. Med., Tulane Univ., New Orleans, La.
general research support: medical research

FR-05378 TURNER, THOMAS B., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
general research support: medical research

FR-05379 STONE, WILLIAM S., Sch. Med., Univ. Maryland, Baltimore, Md.
general research support: medical research

FR-05380 EBAUGH, F.D., Jr., Sch. Med., Boston Univ., Boston, Mass.
general research support; medical research

FR-05381 EBERT, ROBERT J., Harvard Univ., Boston, Mass.
general research support; medical research

FR-05382 HAYMAN, JOSEPH M., Jr., Sch. Med., Tufts Univ., Medford, Mass.
general research support: medical research

FR-05383 HUBBARD, WILLIAM N., Jr., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
general research support: medical research

FR-05384 GARDNER, ERNEST, Sch. Med., Wayne State Univ., Detroit, Mich.
general research support: medical research

FR-05385 HOWARD, ROBERT B., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
general research support: medical research

FR-05386 GRONVALL, JOHN A., Sch. Med., Univ. Mississippi, Jackson, Miss.
general research support; medical research

FR-05387 WILSON, VERNON E., Sch. Med., Univ. Missouri, Columbia, Mo.
general research support: medical research

FR-05388 FELIX, R.H., Sch. Med., St. Louis Univ., St. Louis, Mo.
general research support; medical research

FR-05389 KING, M. KENTON, Sch. Med., Washington Univ., St. Louis, Mo.
general research support; medical research

FR-05390 EGAN, RICHARD L., Sch. Med., Creighton Univ., Omaha, Nebr.
general research support: medical research

FR-05391 WITTSON, CECIL L., Sch. Med., Univ. Nebraska, Lincoln, Nebr.
general research support; medical research

FR-05392 MUDGE, GILBERT H., Sch. Med., Dartmouth Col., Hanover, N.H.
general research support: medical research

FR-05393 McCORMACK, JAMES E., Seton Hall Col. Med., Jersey City, N.J.
general research support: medical research

FR-05394 WIGGERS, HAROLD C., Albany Med. Col., Union Univ., Albany, N.Y.
general research support: medical research

FR-05395 MERRITT, H. HOUSTON, Col. Phys., Surg., Columbia Univ., N.Y.C.
general research support: medical research: surgery

FR-05396 DEITRICK, JOHN E., Med. Col., Cornell Univ., N.Y.C.
general research support: medical research

FR-05397 KOGEL, MARCUS D., Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.
general research support: medical research

FR-05398 SNYDER, RALPH E., New York Med. Col., N.Y.C.
general research support: medical research

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general research support: medical research

FR-05400 SURGENOR, DOUGLAS M., Res. Fdn. State Univ. New York, Buffalo, N.Y.
general research support: medical research

FR-05401 MOORE, ROBERT A., Res. Fdn. State Univ. New York, Albany, N.Y.
general research support: medical research

FR-05402 JACOBSEN, CARLYLE F., State Univ. New York Upstate Med. Cr., Syracuse, N.Y.
general research support: medical research

FR-05403 McKEE, FRANK W., Sch. Med., Univ. Rochester, Rochester, N.Y.
general research support: medical research

FR-05404 MEADS, MANSON, Bowman Gray Sch. Med., Winston-Salem, N.C.
general research support: medical research

FR-05405 ANLYAN, WILLIAM G., Sch. Med., Duke Univ., Durham, N.C.
general research support; medical research

FR-05406 TAYLOR, ISAAC M., Univ. North Carolina, Chapel Hill, N.C.
general research support; medical research

FR-05407 HARWOOD, T.H., Sch. Med., Univ. North Dakota, Grand Forks, N.D.
general research support: medical research

FR-05408 GRULEE, CLIFFORD G., Jr., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
general research support: medical research

FR-05409 MEILING, RICHARD L., Ohio State Univ., Columbus, Ohio
general research support: medical research

FR-05410 BOND, DOUGLAS D., Sch. Med., Western Reserve Univ., Cleveland, Ohio
general research support: medical research

FR-05411 WHITE, JOSEPH M., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
general research support: medical research

FR-05412 BAIRD, D.W.E., Univ. Oregon Med. Sch., Portland, Ore.
general research support: medical research

FR-05413 KELLOW, WILLIAM F., Hahnemann Med. Col. and Hosp., Philadelphia, Pa.
general research support: medical research

FR-05414 SODEMAN, WILLIAM A., Jefferson Med. Col., Philadelphia, Pa.
general research support: medical research

FR-05415 GURIN, SAMUEL, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
general research support: medical research

FR-05416 CHEEVER, FRANCIS S., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
general research support; medical research

FR-05417 BOONE, BERT R., Sch. Med., Temple Univ., Philadelphia, Pa.
general research support: medical research

FR-05418 LEYMASTER, GLEN R., Woman's Med. Col., Philadelphia, Pa.
general research support; medical research

FR-05419 NIGAGLIONI, ADAN, Sch. Med., Univ. Puerto Rico, San Juan, P.R.
general research support: medical research

FR-05420 SMYTHE, CHEVES M., Med. Col. South Carolina, Charleston, S.C.
general research support: medical research

FR-05421 HARD, WALTER L., Sch. Med., Univ. South Dakota, Vermillion, S.D.
general research support: medical research

FR-05422 JOHNSON, CHARLES W., Meharry Med. Col., Nashville, Tenn.
general research support: medical research

FR-05423 CALLISON, M.K., Sch. Med., Univ. Tennessee, Memphis, Tenn.
general research support: medical research

FR-05424 BATSON, RANDOLPH, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
general research support: medical research

FR-05425 OLSON, STANLEY W., Col. Med., Baylor Univ., Houston, Tex.
general research support: medical research

FR-05426 GILL, A.J., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
general research support; medical research

FR-05427 BLOCKER, TRUMAN G., Jr., University Texas Med. Branch Galveston, Tex
general research support: medical research

FR-05428 CASTLETON, KENNETH B., Col. Med., Univ. Utah, Salt City, Utah
general research support: medical research

FR-05429 SLATER, ROBERT J., Col. Med., Univ. Vermont, Burlington Vt.
general research support: medical research

FR-05430 NELSON, KINLOCH, Med. Col. Virginia, Richmond, Va.
general research support: medical research

FR-05431 CRISPELL, KENNETH R., Sch. Med. Univ. Virginia, Charlottesville, Va.
general research support: medical research

FR-05432 HOGNESS, JOHN R., Sch. Med., Univ. Washington, Seattle, Wash.
general research support; medical research

FR-05433 SLEETH, CLARK K., Sch. Med., West Virginia Univ., Morgantown, W.Va.
general research support: medical research

FR-05434 HIRSCHBOECK, JOHN S., Sch. Med., Marquette Univ., Milwaukee, Wis.
general research support; medical research

FR-05435 CROW, JAMES F., Med. Sch., Univ. Wisconsin, Madison, Wis.
general research support: medical research

FR-05436 MELCHIOR, JACKLYN B., Chicago Col. Osteopathy; Chicago, Ill.
general research support; osteopathy

FR-05437 NIFFENEGGER, ORA E., Col. Osteopathic, Med., Surg., Des Moines, Iowa
general research support: osteopathy

FR-05438 COLE, W.V., Kansas City Col. Osteopathy, Surg., Kansas City, Mo.
general research support: osteopathy

FR-05439 DENSLOW, J.S., Kirksville Col. Osteopathy, Surg., Kirksville, Mo.
general research support: osteopathy

FR-05440 MERCER, SHERWOOD R., Philadelphia Col. Osteopathy, Philadelphia, Pa.
general research support: osteopathy

FR-05441 SMITH, CHARLES E., Sch. Public Hlth., Univ. California, Berkeley, Cal.
general research support: public health

FR-05442 GOERKE, L.S., Univ. California, Berkeley, Cal.
general research support: public health

FR-05443 PAYNE, ANTHONY M-M., Yale Univ., New Haven, Conn.
general research support; epidemiology; public health

FR-05444 PATERSON, J.C.S., Sch. Public Hlth., Tulane Univ., New Orleans, La.
general research support: public health

FR-05445 STEBBINS, ERNEST L., Sch. Hygiene, Public Hlth., Johns Hopkins Univ., Baltimore, Md.
general research support: public health

FR-05446 SNYDER, JOHN C., Harvard Sch. Public Hlth., Boston, Mass.
general research support: public health

(contd)

LISTING OF GENERAL RESEARCH AREAS

GENERAL RESEARCH SUPPORT (CONTD)

FR-05447 WEGMAN, MYRON E., Univ. Michigan, Ann Arbor, Mich.
general research support: public health

FR-05448 ANDERSON, GAYLORD W., Univ. Minnesota, Minneapolis, Minn.
general research support: public health

FR-05449 TRUSSELL, RAY E., Sch. Pub. Health, Admin. Med., Columbia Univ., N.Y.C.
general research support: public health

FR-05450 MAYES, W. FRED, Consolidated Univ. North Carolina, Chapel Hill, N.C.
general research support: public health

FR-05451 CRABTREE, JAMES A., Grad. Sch. Public Health, Univ. Pittsburgh, Pittsburgh, Pa.
general research support: public health

FR-05452 CURT, JOSE N., Sch. Med., Univ. Puerto Rico, San Juan, P.R.
general research support: public health

FR-05453 DANIELS, T.C., Univ. California Med. Cr., San Francisco, Cal.
general research support: pharmacy

FR-05454 MURRAY, DANIEL H., Res. Fdn. State, Univ. New York, Albany, N.Y.
general research support: pharmacy

FR-05455 BIANCULLI, JOSEPH A., Sch. Pharm., Univ. Pittsburgh, Pittsburgh, Pa.
general research support: pharmacy

FR-05456 KUPCHAN, S. MORRIS, Univ. Wisconsin, Madison, Wis.
general research support: pharmacy

FR-05457 PRITCHARD, W.R., Sch. Veterinary Med., Univ. California, Davis, Cal.
general research support: veterinary medicine

FR-05458 JENSEN, RUE, Col. Veterinary Med., Colorado State Univ., Fort Collins, Colo.
general research support: veterinary medicine

FR-05459 MORSE, ERSKINE V., Purdue Univ., Lafayette, Ind.
general research support: veterinary medicine

FR-05460 BRANDLY, C.A., Col. Veterinary Med., Univ. Illinois, Urbana, Ill.
general research support: veterinary medicine

FR-05461 THORP, W.T.S., Univ. Minnesota, Minneapolis, Minn.
general research support: veterinary medicine

FR-05462 POPPENSICK, GEORGE C., Veterinary Col., Cornell Univ., Ithaca, N.Y.
general research support: veterinary medicine

FR-05463 KRILL, WALTER R., Ohio State Univ., Columbus, Ohio
general research support: veterinary medicine

FR-05464 ALLAM, MARK W., Univ. Pennsylvania, Philadelphia, Pa.
general research support: veterinary medicine

FR-05465 HENDERSON, J.A., Grad. Sch., Washington State Univ., Pullman, Wash.
general research support: veterinary medicine

FR-05467 LAHEY, M. EUGENE, Children's Hosp., East Bay, Oakland, Cal.
general research support: hospitals; children

FR-05468 ELLIOTT, FREDERICK N., Cedars of Lebanon Hosp., Los Angeles, Cal.
general research support: hospitals

FR-05469 WARD, ROBERT, Childrens Hosp., Los Angeles, Cal.
general research support: hospitals: children

FR-05471 SMITH, HARVEY B., City of Hope Med. Cr., Duarte, Cal.
general research support: hospitals

FR-05472 BERKE, MARK, Mt. Zion Hosp. and Med. Cr., San Francisco, Cal.
general research support: hospitals

FR-05474 COHN, MAURICE L., Natl. Jewish Hosp., Denver, Colo.
general research support; hospitals

FR-05476 SILVERMAN, WILLIAM J., Michael Reese Hosp. and Med. Cr., Chicago, Ill.
general research support: hospitals

FR-05477 BRADY, NORMAN A., Presbyterian-St. Luke's Hosp., Chicago, Ill.
general research support: hospitals

FR-05478 HUBBARD, FREDERIC G., Sinai Hosp., Baltimore, Md.
general research support

FR-05479 LEE, SIDNEY S., Beth Israel Hosp., Boston, Mass.
general research support: hospitals

FR-05480 McTERNAN, EDMUND J., Boston Disp., Boston, Mass.
general research support: hospitals

FR-05481 MILLS, RICHARD D., Boston Lying-in Hosp., Boston, Mass.
general research support: hospitals

FR-05482 CRONKHITE, LEONARD W., Jr., Children's Hosp. Med. Cr., Boston, Mass.
general research support: hospitals: children

FR-05483 HEIN, JOHN W., Forsyth Dental Inf. Children, Boston, Mass.
general research support: dental research: children

FR-05484 de MARNEFFE, FRANCIS, McLean Hosp., Belmont, Mass.
general research support: hospitals

FR-05485 HILL, FRANCIS S., Massachusetts Eye, Ear Inf., Boston, Mass.
general research support: hospitals: eye: ear

FR-05486 GROSS, JEROME, Massachusetts Gen. Hosp., Boston, Mass.
general research support: hospitals

FR-05487 BONNET, PHILIP D., Massachusetts Mem. Hosp., Boston, Mass.
general research support: hospitals

FR-05488 VIGUERS, RICHARD T., New England Center Hosp., Boston, Mass.
general research support: hospitals

FR-05489 DAY, ROBERT T., Peter Bent Brigham Hosp., Boston, Mass.
general research support: hospitals

FR-05490 PROCTOR, LORNE D., Henry Ford Hosp., Detroit, Mich.
general research support: hospitals

FR-05491 GEE, DAVID A., Jewish Hosp., Saint Louis, Mo.
general research support: hospitals

FR-05492 ANTOPOL, WILLIAM, Beth Israel Hosp., N.Y.C.
general research support: hospitals

FR-05493 RUBIN, MITCHELL I., Children's Hosp., Buffalo, N.Y.
general research support: hospitals: children

FR-05494 ROBBINS, LEWIS L., Hillside Hosp., Glen Oaks, N.Y.
general research support: hospitals

FR-05495 BAUER, GORAN C.H., Hosp. Special Surgery, N.Y.C.
general research support; hospitals; surgery

FR-05496 ROGATZ, PETER, Long Island Jewish Hosp., New Hyde Park, N.Y.
general research support; hospitals

FR-05497 COHEN, IRVIN J., Maimonides Hosp., Brooklyn, N.Y.
general research support: hospitals

FR-05498 BORDLEY, JAMES, III, Mary I. Bassett Hosp., Cooperstown, N.Y.
general research support: hospitals

FR-05499 CHERKASKY, MARTIN, Montefiore Hosp., Bronx, N.Y.
general research support: hospitals

FR-05500 STEINBERG, MARTIN R., Mount Sinai Hosp., N.Y.C.
general research support: hospitals

FR-05501 DAVIDSON, CHARLES W., St. Luke's Hosp., N.Y.C.
general research support: hospitals

FR-05502 ANTHONY MARIE, SISTER, Saint Vincent's Hosp., N.Y.C.
general research support: hospitals

FR-05503 GOLDNER, MARTIN G., Jewish Hosp., Brooklyn, N.Y.
general research support: hospitals

FR-05504 ROSTOMILY, CLIFFORD R., Children's Hosp., Columbus, Ohio
general research support: hospitals: children

FR-05505 AJL, SAMUEL J., Albert Einstein Med. Cr., Philadelphia, Pa.
general research support: hospitals

FR-05506 SCOTT, T.F. McNAIR, Children's Hosp., Philadelphia, Pa.
general research support: hospitals: children

FR-05507 GAFFNEY, PAUL C., Children's Hosp., Pittsburgh, Pa.
general research support: hospitals: children

FR-05508 KOLBE, HENRY W., Philadelphia Gen. Hosp., Philadelphia, Pa.
general research support: hospitals

FR-05510 SERY, THEODORE W., Wills Eye Hosp., Philadelphia, Pa.
general research support; hospitals; eye

FR-05511 CLARK, R. LEE, Univ. Texas, M.D. Anderson Hosp. and Tumor Inst., Houston, Tex.
general research support: hospitals: neoplasms

FR-05513 KRUPP, MARCUS A., Palo Alto Med. Res. Fdn., Palo Alto, Cal.
general research support: medical research

FR-05514 KEENEY, EDMUND L., Scripps Clinic and Res. Fdn., La Jolla, Cal.
general research support: medical research

FR-05515 MORIN, ROBERT V., Res. Fdn. Children's Hosp., Washington, D.C.
general research support: hospitals: children

FR-05516 SIGEL, M. MICHAEL, Variety Children's Res. Fdn., Inc., Miami, Fla.
general research support: medical research: children

FR-05517 MURPHY, GARDNER, Menninger Fdn., Topeka, Kans.
general research support: medical research

FR-05518 JORDAN, JERRY D., Alton Ochsner Med. Fdn., New Orleans, La.
general research support; medical research

FR-05519 VAGTBORG, HAROLD, Southwest Fdn. Res. and Education, San Antonio, Tex.
general research support: medical research

FR-05520 HUTCHINSON, WILLIAM B., Pacific Northwest Res. Fdn., Seattle, Wash.
general research support: medical research

FR-05521 CALKINS, WILLARD C., Kaiser Fdn. Res. Inst., Oakland, Cal.
general research support: medical research

FR-05522 GRAHAM, BRUCE, Stanford Res. Inst., Menlo Park, Cal.
general research support: medical research

FR-05524 HOFFMAN, SAMUEL J., Hektoen Inst. Med. Res. of Cook County Hosp., Chicago, Ill.
general research support: medical research

FR-05525 HOMBURGER, F., Bio-Research Inst., Inc., Cambridge, Mass.
general research support: medical research

FR-05526 FARBER, SIDNEY, Children's Cancer Res. Fdn., Inc., Boston, Mass.
general research support: cancer: children

FR-05527 BALAZS, ENDREA A., Retina Fdn., Boston, Mass.
general research support: eye, retina

FR-05528 CRAWFORD, BRUCE, Worchester Fdn. Experimental Biology, Inc., Shrewsbury, Mass.
general research support: experimental biology

FR-05529 SIMPSON, WILLIAM L., Detroit Inst. Cancer Res., Detroit, Mich.
general research support: cancer

FR-05530 LADNER, K.J., Mayo Assn., Rochester, Minn.
general research support: medical research

FR-05532 VOLK, BRUNO W., Isaac Albert Res. Inst. of Jewish Chronic Disease Hosp., Brooklyn, N.Y.
general research support: hospitals: chronic disease

FR-05533 HIRST, GEORGE K., Pub. Health Res. Inst., N.Y.C.
general research support: public health

FR-05534 HORSFALL, FRANK L., Jr., Sloan-Kettering Inst. Cancer Res., N.Y.C.
general research support: cancer

FR-05535 PRATT, EDWARD L., Children's Hosp. Res. Fdn., Cincinnati, Ohio
general research support: hospitals: children

FR-05537 SONTAG, L.W., Fels Res. Inst., Yellow Springs, Ohio
general research support: medical research

FR-05538 ELIEL, LEONARD P., Oklahoma Med. Res. Inst., Oklahoma City, Okla.
general research support: medical research

FR-05539 TALBOT, T.R., Jr., Inst. Cancer Res., Philadelphia, Pa.
general research support: cancer

FR-05540 KOPROWSKI, HILARY, Wistar Inst., Philadelphia, Pa.
general research support: medical research

FR-05542 PERKINS, DONOVAN J., Attending Staff Assn. of Rancho Los Amigos Hosp., Inc., Downey, Cal.
general research support: hospitals

FR-05545 GREEN, EARL L., Roscoe B. Jackson Mem. Lab., Bar Harbor, Me.
general research support: medical research

FR-05546 MEACHAM, HARRY D., Spring Grove State Hosp., Baltimore, Md.
general research support: psychiatry: mental hospitals

FR-05547 PARPART, ARTHUR K., Marine Biological Lab., Woods Hole, Mass.
general research support: marine biology

FR-05548 BIBBY, BASIL G., Eastman Dental Disp., Rochester, N.Y.
general research support: dental research

FR-05549 DYAR, ROBERT, California State Dept. Health, Berkeley, Cal.
general research support: public health: health department

FR-05550 SIMON, ALEXANDER, Langley Porter Neuropsychiatric Inst., San Francisco, Cal.
general research support: psychiatry

FR-05551 MARTIN, WALTER P., Attending Staff Assn. of Los Angeles Harbor Gen. Hosp., Torrance, Cal.
general research support: hospitals

FR-05553 HARDY, ALBERT V., Florida State Board Health, Jacksonville, Fla.
general research support: public health: health department

FR-05555 EWALT, JACK R., Massachusetts Mental Health Res. Corp., Boston, Mass.
general research support: mental health

FR-05556 HUBBARD, FREDERIC G., Baltimore City Hosp., Baltimore, Md.
general research support: hospitals

FR-05558 OSMOND, HUMPHRY F., Bu. Res. Neurology and Psychiatry Princeton, N.J.
general research support: neurology: psychology

FR-05559 LARIMORE, GRANVILLE W., Health Research Inc., Albany, N.Y.
general research support: medical research

FR-05560 KOLB, LAWRENCE, Res. Fdn. Mental Hygiene, Inc., N.Y.C.
general research support: mental health

FR-05561 KLINE, NATHAN S., Res. Fdn. Mental Hygiene, Inc., Orangeburg, N.Y.
general research support: mental health

FR-05562 AUSMAN, ROBERT K., Health Research, Inc., Buffalo, N.Y.
general research support: medical research

FR-05563 CAWFIS, EWING H., Cleveland Psychiatric Inst., Cleveland, Ohio
general research support: psychiatry

FR-05565 BAKER, DURWOOD L., Col. Vet. Med., Iowa State Univ., Ames, Iowa
general research support: veterinary medicine

FR-05566 GERBODE, FRANK, Inst. Med. Sciences, San Francisco, Cal.
general research support: medical research

FR-05567 HOLM, GLENN C., Oklahoma State Univ., Stillwater, Okla.
general research support: veterinary medicine

FR-05568 PRAGER, MORTON D., Wadley Res. Inst., Blood Cr., Dallas, Tex.
general research support: medical research

FR-05569 LEZER, LEON R., Boston City Hosp., Boston, Mass.
general research support: hospitals

FR-05570 HUTCHINSON, DONALD L., Magee-Womens Hosp., Pittsburgh, Pa.
general research support: hospitals

FR-05571 ROWE, THOMAS D., Univ. Michigan, Ann Arbor, Mich.
general research support: pharmacology

FR-05575 JOUBLANC, EUGENE M., St. Joseph's Hosp., Phoenix, Ariz.
general research support: hospitals

FR-05576 STETTEN, DeWITT, Jr., Rutgers State Univ., New Brunswick, N.J.
general research support: medical research

FR-05577 TOMPSETT, RALPH, Baylor Univ. Med. Cr., Houston, Tex.
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FR-05579 MILHORAT, ADE T., Inst. for Muscle Disease, New York, N.Y.
general research support: muscular disorders

FR-05580 DAVIES, T.H., Mellon Inst. of Industrial Res., Pittsburgh, Pa.
general research support: medical research

FR-05583 FITZ, REGINALD H., Univ. New Mexico, Albuquerque, N. Mex.
general research support: medical research

FR-05584 PINKEL, DONALD, St. Jude Hosp., Memphis, Tenn.
general research support: hospitals

FR-05585 RODAHL, KAARE, Lankenau Hosp., Philadelphia, Pa.
general research support: hospitals

FR-05589 ROSENBERG, ABRAHAM, Hosp. for Joint Diseases, New York, N.Y.
general research support: joint disorders: hospitals

FR-05590 CATHCART, H. ROBERT, Pennsylvania Hosp., Philadelphia, Pa.
general research support: hospitals

FR-05591 WARREN, SHIELDS, New England Deaconess Hosp., Boston, Mass.
general research support: hospitals

FR-05592 GOLDBERT, IRWIN, Montefiore Hosp., Pittsburgh, Pa.
general research support: hospitals

FR-05593 STOCKS, CHESTER L., Good Samaritan Hosp., Portland, Oregon
general medical support: hospitals

FR-05595 SALK, JONAS E., Salk Inst. Biological Studies, San Diego, Cal.
general research support: medical research

FR-05596 COOPER, FRANKLIN S., Haskins Laboratories, Inc., New York, N.Y.
general research support: speech: hearing: microbiology

GENETICS

AI-00140 BOONE, DONALD M., Sch. Agr., Univ. Wisconsin, Madison, Wis.
fungi..Venturia inaequalis; apple scab disease; virulence, microorganisms; host--parasite; nutrients; immunology..antigens; genetics mapping; mutations

AI-00328 ROMAN, HERSCHEL L., Grad. Sch., Univ. Washington, Seattle, Wash.
fungi..Saccharomyces; genetics..gene conversion; deoxyribonucleic acid replication; genetics..recombination; adenine; genetic mapping; heterothallic reproduction; mutations; genetics..phenotypes; galactose; osmotic pressure: homothallic reproduction

AI-00634 KNIGHT, C. ARTHUR, Univ. California, Berkeley, Cal.
viruses..tobacco mosaic virus; mutations; proteins; nucleic acids; molecular structure

AI-00727 RAVIN, ARNOLD W., Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.
bacteria..Diplococcus pneumoniae; genetic mapping; drugs resistance; transformation; erythromycin; streptomycin; deoxyribonucleic acid; genetics..recombination; bacteria..Streptococcus; mutation

AI-00857 LANNI, FRANK, Emory Univ., Atlanta, Ga.
viruses..bacteriophage T5; genetic mapping; immunology.. antigens; mutations; deoxyribonucleic acid; bacteria

AI-01218 HERRIOTT, ROGER M., Sch. Hygiene, Pub. Hlth, Johns Hopkins Univ., Baltimore, Md.
transformation; bacteria..Hemophilus influenzae; deoxyribonucleic acid; streptomycin; drugs resistance; protoporphyrins; ultraviolet rays; genetics..hybrids; genetics.. phenotypes: histogenesis

AI-01240 WITKIN, EVELYN M., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
bacteria: dyes; genetic mapping; growth inhibitors; mutations; photochemistry; radiation effects; ultraviolet rays

AI-01267 STANLEY, WENDELL M., Grad. Sch., Univ. California, Berkeley, Cal.
cell; chemical structure--biological activity; cytopathogenic effect (viral); host-virus; mutations; nitrous acid; nucleic acids; plants; tissue culture; virus capsid; virus replication; viruses..tobacco mosaic virus

AI-01345 MORSE, MELVIN L., Univ. Colorado Med. Cr., Denver, Colo.
bacteria..Escherichia coli; enzymes; galactose; genetic mapping; transduction; viruses, bacteriophage lambda

AI-01416 ELLIOTT, ALFRED M., Univ. Michigan, Ann Arbor, Mich.
cell components..cell nucleolus; cell components.. mitochondria; growth; protozoa..Tetrahymena pyriformis; protozoan culture; ribonucleic acid

AI-01462 PERKINS, DAVID D., Grad. Sch., Stanford Univ., Stanford, Cal.
cytology; fungi..Neurospora; genetics..chromosomes; genetics..recombination

AI-01601 BRADLEY, S. GAYLEN, Univ. Minnesota, Minneapolis, Minn.
antibiotics; chemical structure; fungi..Streptomyces violaceoruber; genetics..recombination; host-virus; mutations; nutrients; viruses..actinophage

AI-01643 IRWIN, M.R., Col. Agr., Univ. Wisconsin, Madison, Wis.
blood cells; blood groups; death; fertility; fetus; genetics ..hybrids; immunology..antibodies; immunology..antigens; species: spermatozoa: transferrin: twins

AI-01650 HARTMAN, PHILIP E., Sch. Arts, Sci., Johns Hopkins Univ., Baltimore, Md.
bacteria: enzymes: genetics..recombination: histidine: transduction: viruses..bacteriophage P22

(contd)

LISTING OF GENERAL RESEARCH AREAS

GENETICS (CONTD)

AI-02615 BRYSON, VERNON, Grad. Sch., Rutgers Univ., New Brunswick, N.J.
bacteria..Escherichia coli; microbial culture; culture media; growth inhibitors; drugs; antibiotics; bacteria.. Staphylococcus aureus

AI-02709 HOOKER, ARTHUR L., Grad. Sch., Univ. Illinois, Urbana, Ill.
host-parasite; plants diseases; fungi..plant fungi; corn; immunity

AI-02753 CRAIG, GEORGE B., Jr., Grad. Sch., Univ. Notre Dame, Notre Dame, Ind.
public health; genetic mapping; genetics..population genetics, animal; genetics..hybrids; genetics..sex determination; radiation effects; ovum; animal facilities

AI-02781 CHRISTENSEN, JAMES R., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
genetics..genes; host-virus; immunity; lysogeny; viruses.. bacteriophage

AI-02807 NOVICK, AARON, Grad. Sch., Univ. Oregon, Eugene, Ore.
bacteria; carbohydrases..β--galactosidase; ribonucleic acid

AI-02862 CAMPBELL, ALLAN M., Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.
genetics..recombination; viruses..bacteriophage lambda; proteins; galactose; transduction; bacteria..Escherichia coli; genetics..lethals; mutation

AI-02872 IINO, TETSUO, Natl. Inst. Genetics, Mishima, Japan
bacteria..Salmonella; flagellins; genetic mapping; genetics ..genes; genetics..recombination; immunology..antigens; mutations; transduction

AI-03027 PAIGEN, KENNETH, Health Research, Inc., Buffalo, N.Y.
bacteria..Escherichia coli; genetics..genes; mutations; phosphotransferases..ATP; D-galactose 1-phosphotransferase; viruses..bacteriophage lambda; viruses..transducing viruses

AI-03038 LURIA, SALVADOR E., Massachusetts Inst. Tech., Cambridge, Mass.
bacteria..Escherichia coli; bacteria..Shigella; carbohydrases..β-galactosidase; genetics..recombination; permeases; transduction; viruses..bacteriophage

AI-03242 BRINTON, CHARLES C., Jr., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
cell components..pili; bacteria; ecology, microorganisms; microbial culture; cell-free systems; molecular structure; x-ray diffraction; electron microscopy; proteins; immunology..antigens

AI-03481 LEWIN, RALPH A., Univ. California, La Jolla, Cal.
algae..Chlamydomonas moewusii; mutations; radiation effects; cell components..flagella; paralysis; high-energy compounds; phosphates

AI-03486 KITZMILLER, JAMES B., Univ. Illinois, Urbana, Ill.
genetics..sex determination; mutations; fertilization..artificial fertilization; genetics..crossing over; genetic mapping; x-rays; radiation effects

AI-03497 DURAND, DONALD P., Sch. Med., Univ. Missouri, Columbia, Missouri
viruses..Newcastle disease virus; mutations; host-virus; enzymes

AI-03895 RILEY, MONICA, Univ. California, Davis, Cal.
genetics..genes; genetics..recombination; bacteria.. Escherichia coli; enzymes; conjugation

AI-03903 TESSMAN, ETHEL S., Purdue Univ., Lafayette, Indiana
viruses..bacteriophage S13; radiation effects; ultraviolet rays; genetics..recombination; genetics..cistrons

AI-03958 NOSSAL, GUSTAV J., Hall Inst., Victoria, Australia
blood cells..lymphoblasts; immunology..antigens; immunology..antibodies; immunity; flagellins; bacteria..Salmonella; single cell analysis; cell culture; infant animals..newborn

AI-04181 ZABIN, IRVING, Sch. Med., Univ. California, Los Angeles, Cal.
enzymes; galactosides; bacteria; cell; genetics..genes; proteins; molecular structure; mutations; membrane permeability and transport

AI-04267 KELLENBERGER, EDOUARD, Univ. Geneva, Geneva, Switzerland
viruses..bacteriophage; mutations; growth inhibitors; deoxyribonucleic acid; molecular condensations; virus replication; genetics..complementation

AI-04377 ADELBERG, EDWARD A., Sch. Med., Yale Univ., New Haven, Conn.
bacteria..Escherichia coli; conjugation; genetics..chromosomes; genetics..sex factor; reproduction (microorganisms)

AI-04390 BERTANI, GIUSEPPE, Karolinska Inst., Stockholm, Sweden
viruses..bacteriophage P2; mutations; growth, microorganisms; deoxyribonucleic acid; genetic mapping; bacteria..Escherichia coli strain C; chemical structure--biological activity; host-virus; lysogeny; immunity

AI-04425 OLIVE, LINDSAY S., Grad. Sch., Columbia Univ., N.Y.C.
heterothallic reproduction; phylogeny; mutations; homothallic reproduction; x-rays; radiation effects; genetics.. recombination; genetics..crossing over; genetics..gene conversion; genetics..chromosome replication; deoxyribonucleic acid replication; fungi..Sordaria fimicola

AI-04430 McCLUNG, NORVEL M., Grad. Sch., Univ. Georgia, Athens, Ga.
bacteria; deoxyribonucleic acid; fungi..Nocardia rubra; genetics..recombination; heterokaron; mutations; radiation effects; transduction; ultraviolet rays; viruses..bacteriophage; x-rays

AI-04557 GOODGAL, SOL H., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
bacteria..Hemophilus influenzae; bacteria..Hemophilus parainfluenzae; genetics..recombination; bacteria.. Bacillus subtilis; transformation; deoxyribonucleic acid; enzymes; viruses, bacteriophage

AI-04713 RACHMELER, MARTIN, Sch. Med., Northwestern Univ., Chicago, Ill.
genetics..gene interaction; fungi..Neurospora crassa; mutations; dehydratases..tryptophan synthetase; proteins; heterokaryon; genetics..complementation; genetics..alleles

AI-04740 WATANABE, TSUTOMU, Sch. Med., Keio Univ., Tokyo, Japan
drugs resistance; bacteria..Shigella; transduction; genetics..episomes; mutations; sulfonamides; streptomycin; chloramphenicol; tetracycline; radiolabeled phosphorus; molecular structure

AI-04886 DRAKE, JOHN W., Sch. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
viruses..bacteriophage T4; ultraviolet rays; mutagens; genetic mapping; mutations; radiation effects

AI-05160 LEDERBERG, JOSHUA, Sch. Med., Stanford Univ., Palo Alto, Cal.
bacteria; deoxyribonucleic acid; deoxyribonucleic acid replication; bacteria..Bacillus subtilis; transformation; molecular structure

AI-05210 HELINSKI, DONALD R., Grad. Sch., Princeton Univ., Princeton, N.J.
colicines; bacteria..Escherichia coli; chemical structure; peptides; genetic strains

AI-05340 SHANKEL, DELBERT M., Col. Arts, Sci., Univ. Kansas, Lawrence, Kans.
bacteria..Escherichia coli; radiation effects; mutations; ultraviolet rays; purine analogs; deoxyribonucleic acid; ribonucleic acid

AI-05343 GRANOFF, ALLAN, St. Jude Hosp., Memphis, Tenn.
viruses..influenza viruses; viruses..Newcastle disease virus; genetics..recombination; genetic mapping; ribonucleic acid; mutations; nitrous acid; virus replication

AI-05367 LIEB, MARGARET, Sch. Med., Univ. Southern California, Los Angeles, Cal.
bacteria..Escherichia coli; viruses..coliphage; ultraviolet rays; radiation effects; deoxyribonucleic acid; mutation; viruses..prophage; lysogeny

AI-05371 CLARK, ALVIN J., Col. Letters, Sci., Univ. California, Berkeley, Cal.
bacteria..Escherichia coli K12; conjugation; genetics.. recombination; streptomycin

AI-05568 SHOCKLEY, THOMAS E., Sch. Med., Meharry Med. Col., Nashville, Tenn.
bacteria..Diplococcus pneumoniae; mutations; genetic mapping; 2,6--dimethoxyphenyl penicillin; drugs; resistance; mucopeptides; cell components..cell wall; transformation

AI-05627 PRATT, DAVID, Col. Agr., Univ. Wisconsin, Madison, Wis.
deoxyribonucleic acid; genetics..recombination; genetic strains; mutations; ribonucleic acid; viruses.. coliphage

AI-05641 NOMURA, MASAYASU, Osaka Univ., Osaka, Japan
viruses..bacteriophage; virus replication; ribonucleic acid; proteins; genetics..genes

AI-05807 BAYLOR, MARTHA BARNES, Marine Biological Lab., Woods Hole, Mass.
acridine; chloramphenicol; genetic mapping; genetics.. cistrons; genetics..gene interaction; genetics..phenotypes; microbial culture; mutations; proteins; viruses..bacteriophage T2; virus inhibitors; virus replication

AI-05972 LANDMAN, OTTO E., Sch. Arts, Sci., Georgetown Univ., Washington, D.C.
bacteria..Bacillus subtilus; deoxyribonucleic acid; transformation; cell components..cell wall; cell components..cell membrane; membrane permeability and transport; chemical structure--biological activity; radiolabeled phosphorus; tritium

AI-06013 GREEN, MELVIN H., Sch. Sci., Eng., Univ. California, San Diego, La Jolla, Cal.
viruses..bacteriophage lambda; bacteria..Escherichia coli; genetics..genome; reaction sites; deoxyribonucleic acid; ribonucleic acid; lysogeny; nucleotide sequence; host--virus; mutations; genetics..hybrids

AI-06124 RAPER, JOHN R., Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
fungi..Schizophyllum; genetic mapping; mutations; heterokaryon

AI-06128 STRAUSS, BERNARD S., Univ. Chicago, Chicago, Ill.
bacteria..Bacillus subtilis; viruses..transducing viruses; transduction; deoxyribonucleic acid; chemical structure--biological activity; host--virus; transformation

AI-06133 SHEPPARD, DAVID E., Reed Inst., Portland, Ore.
bacteria..Salmonella typhimurium; genetics..genes.. genetic mapping; mutations; aminotransferases; histidine

AI-06239 CARLSON, WILLIAM D., Col. Vet. Med., Colorado State Univ., Fort Collins, Colo.
animal facilities; genetic strains; bacteria..Salmonella typhimurium; host--parasite

AI-06342 SHREFFLER, DONALD C., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
transplantation immunology; immunology..antigens; genetics..genes; genetics..gene interaction; genetics.. recombination; chemical structure--biological activity; histocompatibility; blood cells..

AI-06647 **PATTEE, PETER A., Col. Sci., Humanities, Iowa State Univ., Ames, Iowa**
bacteria..Staphylococcus aureus; bacteria.. Pseudomonas; transformation; genetic mapping; transduction; enzymes; bacteriolysis

AM-01542 **BEARN, ALEXANDER G., Rockefeller Inst., N.Y.C.**
blood proteins..serum proteins; genetics..population genetics, human; transferrin; ceruloplasmin; dehydrogenases..lactate dehydrogenases

AM-04468 **YERGANIAN, GEORGE, Children's Cancer Res. Fdn., Boston, Mass.**
atherosclerosis; dental disease..periodontal disease; diabetes; genetics..autosomes; genetics..chromosomes; genetics..sex chromosomes; mutations; pancreas neoplasms; thymidine; tritium

AM-04616 **PALMER, ROBERT M., Sch. Med., Indiana Univ., Bloomington, Ind.**
clubfoot; diet; riboflavin

AM-05321 **GREGORY, PAUL W., Col., Agric., Univ. California, Davis, Calif.**
achondroplasia; body weight

AM-06428 **FORSTHOEFEL, PAULINUS F., Grad. Sch., Univ. Detroit, Detroit, Mich.**
genetics..genes; alopecia; hair follicle; enzymes; embryology; genetics..homozygotes

AM-06793 **TAKAHARA, SHIGEO, Sch. Med., Okayama Univ., Okayama, Japan**
survey; acatalasemia; genetics..population genetics; catalase; methemoglobin; radiation effects; metabolic diseases, inborn; ethnic groups; geographical sites.. Asia; geographical sites..Pacific Islands

AM-06850 **NESHEIM, MALDEN C., New York State Col. Agr., Cornell Univ., Ithaca, N.Y.**
nutrition; dietary deficiency; genetic strains; arginine; lysine; glucose; amidases..arginase; body weight; radiolabeled carbon; magnesium; bone necrosis.. ischemic bone necrosis

AM-07980 **STEINBERG, ARTHUR G., Grad. Sch. Med., Western Reserve Univ., Cleveland, Ohio**
age; biometry; diabetes; family..parents; genetics; geographical sites..Africa; travel

AM-08061 **FUSCALDO, KATHRYN E., Hahnemann Med. Col., Hosp., Philadelphia, Pa.**
cell components..heterochromatin; immunology..antigens; nucleic acids; proteins

AM-08167 **FOSTER, MORRIS, Dept. Zoology, Univ. Michigan, Ann Arbor, Mich.**
blood groups; blood cells..erythrocytes; immunology.. antigens; immune sera; genetic mapping; genetic strains; genetics..population genetics, animal

AM-08331 **OLIVER, CLARENCE P., Genetics Fdn., Univ. Texas, Austin, Tex.**
genetics..genes; mutation; proteins; chemical structure--biological activity; hemoglobin; hemoglobin--F; albumins; peptides; infant human; ethnic groups.. Negroes; family; phylogeny; growth; pancreatic cystic fibrosis; breast neoplasms

AM-09183 **HUNT, JOHN A., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii**
genetics..genetic coding; messenger ribonucleic acid; hemoglobin; hematopoiesis..erythropoiesis; blood cells ..reticulocytes; fetus; bone marrow; cell--free systems; nucleotide sequence; species

CA-00281 **SAWIN, PAUL B., Roscoe B. Jackson Mem. Lab., Bar Harbor, Me.**
skeleton; growth; hypogonadism; reproduction; chondrodystrophy; maternal behavior; neuromuscular disorders; genetic strains; congenital abnormalities; hormones; dwarfism; aging; vitamin A; genetics..genes; dietary deficiency; semen preservation; freezing; nutrition; mutations; genetics..chromosomes

CA-01074 **RUSSELL, ELIZABETH S., R.B. Jackson Mem. Lab., Bar Harbor, Me.**
genetics..genes; macrocytic anemia; jaundice..hemolytic jaundice, hereditary; siderocytic anemia, hereditary; genetic strains; hematopietic tissue transplantation; radiation effects; erythropoietin; hemoglobin; proteins denaturation; alkalies; embryo; heme

CA-01329 **SNELL, GEORGE D., The Jackson Lab., Bar Harbor, Me.**
neoplasms transplantation; histocompatibility; genetic strains; genetics..genes; immunology..isoantigens; immunology..complement; immunity; blood cells.. lymphocytes; cytotoxicity; immune sera; cell components.. cell membrane

CA-01613 **SCHULTZ, JACK, Inst. Cancer Res., Philadelphia, Pa.**
genetics..chromosomes; nucleic acids; nucleoproteins; genetics..genes; radioautography; nucleotides; fractionation; cell components..ribosomes; cell components..heterochromatin; cell differentiation; cell components..cell nucleolus; deoxyribonucleic acid; genetics..recombination

CA-02129 **STENT, GUNTHER S., Grad. Sch., Univ. California, Berkeley, Cal.**
bacteria; reproduction; viruses..bacteriophage; virus replication; genetics..phenotypes; deoxyribonucleic acid; bacteria..Escherichia coli; radiolabeled phosphorus; stable isotope labeled nitrogen; deuterium; mutations

CA-02455 **EICHWALD, ERNST J., Montana Deaconess Hosp., Great Falls, Mont.**
histocompatibility; parabiosis; immunology; anemia; polycythemia; blood vessels; genetics

CA-02526 **BUTZEL, HENRY M., Jr., Union Col., Schenectady, N.Y.**
protozoa..Paramecium aurelia; genetics..lethals; cell components; cell death; nucleic acids; reproduction, microorganisms

CA-02662 **STEVENS, LEROY C., Roscoe B. Jackson Mem. Lab., Bar Harbor, Me.**
ascites tumors; embryos; eye; germ cells; histogenesis; teratoma; testis neoplasms; transplantation

CA-02809 **CAIRNS, JOHN, Cold Spring Harbor Lab. Quantitative Biol., Cold Spring Harbor, N.Y.**
conferences..international meetings; nucleic acids; proteins; molecular biology; molecules..macromolecules

CA-02890 **ANDERSON, DAVID E., Univ. Texas, M.D. Anderson Hosp., Tumor Inst., Houston, Texas**
aging; carcinogenesis; eye neoplasms; nutrition; pigments; solar radiation

CA-03080 **SUSKIND, SIGMUND R., Johns Hopkins Univ., Baltimore, Md.**
dehydratases..tryptophan synthetase; fungi..Neurospora crassa; mutations; genetics..genes; immunology antigens

CA-03108 **CHAI, C.K., R.B. Jackson Mem. Lab., Bar Harbor, Me.**
hormones; endocrine glands; genetic strains; aging; thyroid gland; blood cells..leukocytes; genetics; genetic mapping; spasms; histocompatibility; neuromuscular blocking agents; blood proteins..serum proteins

CA-03276 **PLAUT, WALTER, Grad. Sch., Univ. Wisconsin, Madison, Wis.**
radiolabeled carbon; radioautography; deoxyribonucleic acid; genetics..chromosome replication; histones; plants; radiolabeled; pollen; fluorescence; genetics.. chromosomes; ribonucleic acid; nucleic acids denaturation

CA-03700 **KLEIN, GEORGE, Sch. Med., Karolinska Inst., Stockholm, Sweden**
immunology..isoantigens; immunology..isoantibodies; immunofluorescence; neoplastic cells; genetics..chromosomes; genetics..crossing over; testis neoplasms; hormones; skin transplantation; ovary transplantation; histocompatibility; cytotoxicity

CA-03860 **FORRO, FREDERICK, Jr., Grad. Sch., Yale Univ., New Haven, Conn.**
radioautography; bacteria..Escherichia coli; bacteria.. Bacillus subtilis; tritium; deoxyribonucleic acid; molecules..macromolecules; genetics..chromosomes; cell division

CA-03902 **SKAAR, PALMER D., Montana State Col., Bozeman, Mont.**
mutation; bacteria..Escherichia coli; deoxyribonucleic acid; chemical structure; viruses..bacteriophage P1b; thymine; lysogeny

CA-04090 **PAIGEN, KENNETH, Health Res., Inc., Buffalo, N.Y.**
carbohydrases..β--glucuronidase; embryology; neoplasms transplantation

CA-04241 **ZUCKER, LOIS M., Red Acre Farm, Inc., Stow, Mass.**
animal facilities; genetic strains; growth; genetics.. genes; body weight; lung; infectious diseases; computer; mutations; obesity; cholesterol; lipids; blood..serum

CA-04362 **GRIFFEN, ALLEN B., Jackson Mem. Lab., Bar Harbor, Me.**
genetics..chromosomes; germ cells; ascites tumors; radiation effects; cell components..centrioles; cell components..heterochromatin; genetics..polyploidy; cytology; genetics..chromosome translocations

CA-04681 **HERZENBERG, LEONARD A., Stanford Univ. Med. Cr., Palo Alto, Cal.**
cells; mutations; immunology..antigens; lymphoma; cell culture; neoplasms transplantation; drugs resistance; histocompatibility

CA-05089 **ANDO, KOJI, Sch. Med., Central Lab. Exptl. Animals, Meguro-ku, Tokyo, Japan**
animal facilities; geographical sites..Japan; screening; antineoplastic agents

CA-05138 **OHNO, SUSUMU, City Hope Med. Cr., Duarte, Cal.**
genetics..sex chromosomes; histogenesis; spermatogenesis; genetics..chromosome translocations; neoplastic cells; oogenesis; genetics..sex determination

CA-05488 **BUTLER, ELMER G., Princeton Univ., Princeton, N.J.**
cell division..mitosis; ear; radiation effects; skin hyperplasia; ultraviolet rays

CA-05786 **MANDELL, JOSEPH D., Palo Alto Med. Res. Fdn., Palo Alto, Cal.**
bacteria..Escherichia coli (strain S); 1-methyl-3-nitro-1-nitrosoguanidine; toxicology; mutations; auxotrophs; viruses..bacteriophage T2

CA-05851 **DHALIWAL, SATWANT S., Grad. Sch., Univ. Malaya, Kuala Lumpur, Malaya**
mutations; neoplastic cells; drugs resistance; histocompatibility; genetic strains; mutagens; x--rays; radiation effects; leukemia; folic acid antagonists; genetics..hybrids; neoplasms; neoplasms transplantation; genetics..parent--hybrid

CA-05873 **COLEMAN, DOUGLAS L., R. B. Jackson Mem. Lab., Bar Harbor, Me.**
aromatic amino acids; behavior; genetics..genes; mutations; phenol oxidases..tyrosinase; phenylalanine; pigmentation disorders; pigments; tryptophan; tyrosine

CA-05892 **LEACH, FRANKLIN R., Oklahoma State Univ., Stillwater, Okla.**
cell culture; drugs resistance; mutations; nutrition

(contd)

GENETICS (CONTD)

CA-05903 HUNGERFORD, DAVID A., Inst. Cancer Res., Philadelphia, Pa.
blood cells..leukocytes; carcinoma; children; genetic mapping; genetics..chromosomes; genetics..population genetics (human); leukemia; myelosis (bone marrow); neoplasms; Shope papilloma

CA-05959 FREED, JEROME J., Inst. Cancer Res., Philadelphia, Pa.
cell culture; genetic strains; genetics..chromosomes; genetics..haploidy; genetics..phenotypes; mutations; nucleic acids

CA-06665 KALIMAN, KLAUS D., New York Zoological Soc., New York, N.Y.
carcinogenesis; melanoma; genetics..sex determination; pituitary gland; transplantation; melanocytes; thyroid neoplasms; genetic strains

CA-06865 HOOPINGARNER, ROGER A., Col. Natural Sci., Michigan State Univ., East Lansing, Mich.
antimitotic agents; cell division..mitosis; genetics ..chromosomes; genetics..lethals; mutagens; peas; pesticides; plants..roots; screening

CA-06930 WARREN, SHIELDS, New England Deaconess Hosp., Boston, Mass.
blood cells..leukocytes; carcinogenesis; genetics.. chromosome translocations; leukemia; lung neoplasms; radiation effects; radiation therapy; uterus neoplasms

CA-07264 BELL, SANDRA L., Univ. Tennessee, Knoxville, Tenn.
cell components..cell nucleus; deoxyribonucleic acid; 5-fluoro-2'-deoxyuridine; genetics..chromosome translocations; nucleases..deoxyribonuclease; plants..roots; radiation effects; ribonucleic acid; tritium; x-rays

CA-07265 ALEXANDER, MARY L., Genetics Fdn., Univ. Texas, Austin, Tex.
ethyleneimines; ethylene oxide; genetics..chromosome translocations; genetics..lethals; methanesulfonic acid tetramethylene ester; mutagens; radiation effects; spermatogenesis; x-rays

CA-07363 KAUFMANN, BERWIND N., Sch. Med., Hahnemann Med. Col., Philadelphia, Pa.
genetics..chromosomes; cell culture; blood cells.. leukocytes; alanine nitrogen mustard; 5--fluoro--2'--deoxyuridine; 5--bromo--2'--deoxyuridine; 5--bromouracil; methanesulfonic acid tetramethylene ester; deoxyribonucleic acid; antineoplastic agents; tritium; antibiotics..chloramphenicol

CA-07407 BRIGGS, DONALD K., New York Univ. Med. Cr., New York, N.Y.
leukemia; cytology; genetics..chromosomes; carcinogenesis; therapy; radiation effects; poisoning

CA-07409 ZELDIS, LOUIS J., Sch. Med., Univ. California, Los Angeles, Cal.
genetics..chromosomes; mutagens; cell division..mitosis; blood cells..leukocytes; reaction sites; deoxyribonucleic acid; ribonucleic acid; proteins; tritium

CA-07592 DULBECCO, RENATO, Salk Inst. Biological Studies, San Diego, Cal.
carcinogenesis; cell differentiation; deoxyribonucleic acid; genetics; growth factors; heat lability; immunology..antigen-antibody reactions; longitudinal study; messenger ribonucleic acid; mutations; nerves..neurons; polymerases; proteins; research programs; transformation; virulence, microorganisms; virus replication; viruses..adenoviruses; viruses..converting viruses; viruses.. polyoma virus; viruses..SV40 virus

CA-07798 YOSIDA, TOSIHIDE H., National Inst. Genetics, Sizuoka-ken, Japan
mutations; genetics..chromosomes; drugs resistance; leukemia..mouse leukemia L1210; leukemia..mouse leukemia P-388; plasma cell neoplasms; viruses.. oncogenic viruses; carcinogens; ascites tumors; globulins

CA-07992 LaMARCHE, PAUL H., Rhode Island Hosp., Providence, R.I.
genetics..chromosomes; cell dedifferentiation; blood cells..leukocytes; neoplastic cells; carcinogenesis; leukemia; virus diseases; biopsy techniques; viruses..leukemia viruses; genetics..genome

CA-08069 BLUMBERG, BARUCH S., Inst. Cancer Research, Philadelphia, Pa.
genetics..phenotypes; blood proteins..serum proteins; lipoproteins..serum lipoproteins; polymorphism (biology); immunology..antigens; immunity.. isoimmunity; leukemia; thalassemia; diabetes; infectious diseases; ethnic groups..Americans; ethnic groups..Australian aborigenes

CA-08089 DOERMANN, AUGUST H., Grad. Sch., Univ. Washington, Seattle, Wash.
genetics..heterozygotes; genetics..recombination; virus replication; viruses..bacteriophage T4; deoxyribonucleic acid

CA-08253 BAILEY, PAUL C., Birmingham-Southern Col., Birmingham, Ala.
leukemia..lymphocytic leukemia; reticulum cell sarcoma; adenoma; lung neoplasms; genetics.. inbreeding; genetics..hybrids; genetics..chromosomes; genetics..karyograms; blood cells.. leukocytes

CA-09684 ROTKIN, I.D., Kaiser Fdn. Hosp., Oakland, Cal.
environment; uterus neoplasms..cervix neoplasms; sex behavior; pregnancy..abortion; pregnancy.. childbirth; circumcision; hormones; personality; obesity; body fluid

CD-00006 McNUTT, C. WALLACE, Univ. Texas Med. Br., Galveston, Tex.
diabetes; ethnic groups..American Indians; glucose tolerance; epidemiology; socioculture; age

DE-01867 MARGOLIS, HERBERT I., Boston Univ., Boston, Mass.
dentistry..orthodontics; dental occlusion; bone..skull; jaws; face; sex difference

FR-00120 HARE, WILLIAM C.D., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
genetics..chromosomes; congenital abnormalities; sex differentiation abnormalities; cell culture; neoplasms; bone marrow; blood cells..leukocytes; fibroblasts; blastocyst; lymph nodes

FR-00141 STARR, RICHARD C., Grad. Sch., Indiana Univ., Bloomington, Ind.
algae; genetics strains; cell culture; silica gel; freeze--drying; liquid state, chemistry; nitrogen; instrumentation--methodology

GM-03934 KRIVSHENKO, JAKOV, Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.
cell components..cell nucleolus; cytology; genetics.. chromosomes; genetics..crossing over; genetics..population genetics (animal); mutations; polymorphism (biology)

GM-04751 SAUL, GEORGE B., 2nd., Dartmouth Col., Hanover, N.H.
genetic mapping; embryology; mutations; pigments; pteridines; proteins

GM-05550 CHAI, CHEN K., Roscoe B. Jackson Mem. Lab., Bar Harbor, Me.
body weight; genetics..genes

GM-05836 McDONALD, DANIEL J. Dickinson Col., Carlisle, Pa.
genetics..polygenes; genetics..population genetics, animal; temperature; polymorphism, biology

GM-05921 RAUCH, HAROLD, Grad. Sch., Univ. Massachusetts, Amherst, Mass.
behavior; enzymes; growth; muscle relaxants; mutations; nerves..myelin; nervous system..central nervous system; neuromuscular diseases; nutrition; phenylalanine; pigmentation disorders; tranquilizers; tyrosine

GM-06174 PROUT, TIMOTHY, Univ. California, Riverside, Cal.
genetics..heterozygotes; genetics..population genetics (animal)

GM-06209 RICK, CHARLES M., Col. Agr., Univ. California, Davis, Cal.
genetics..trisomy; tomato

GM-06508 BROSSEAU, GEORGE E., Jr., Col. Arts, Sci., State Univ. Iowa, Iowa City, Iowa
genetics..sex chromosomes; fertility; genetic mapping; cell components..chromatin; cytology

GM-06712 LUBIN, MARTIN, Med. Sch., Harvard Univ., Boston, Mass.
cell culture; pyrimidine; enzymes; pyrimidine analogs; bacteria; proteins

GM-06979 FOGEL, SEYMOUR, Sch. Liberal Arts, Sci., Brooklyn Col., Brooklyn, N.Y.
genetics..crossing over; genetics..gene conversion; ultraviolet rays; radiation effects; enzymes; adenine; purines; mutation; fungi..yeasts; histidine; genetics, recombination

GM-06983 DeMARS, ROBERT, Sch. Med., Univ. Wisconsin, Madison, Wis.
cell culture; genetics..homozygotes; genetics..heterozygotes; genetics..recombination; phosphomonoesterases.. acid phosphatase; carbohydrases..β-glucuronidase; transferases; congenital abnormalities; genetics..sex chromosomes; cell differentiation; dehydrogenases..glucose-6-phosphate dehydrogenase

GM-07158 DOUGLAS, HOWARD C., Sch. Med., Univ. Washington, Seattle, Wash.
galactose; enzymes; fungi..Saccharomyces; phosphomutases..phosphoglucomutase

GM-07178 MARGOLIN, PAUL, Sr., Cold Spring Harbor Lab., Cold Spring Harbor, N.Y.
bacteria..Salmonella typhimurium; genetic mapping; mutations; leucine; genetics..recombination; mutagens; purine; pyrimidine; tryptophan

GM-07212 WHITE, MICHAEL J.D., Univ. Melbourne, Victoria, Australia
genetics..chromosomes; genetics..population genetics, animal; ecology, animal; sex difference; genetics.. chromosome inversion

GM-07214 STEINBERG, ARTHUR G., Grad. Sch., Western Reserve Univ., Cleveland, Ohio
chemical structure; ethnic groups; gamma globulin; Gm factor; immunology..Rh antibodies; rheumatoid factors

GM-07249 RODERICK, THOMAS H., R.B. Jackson Lab., Bar Harbor, Me.
genetics..population genetics, animal; longevity; fertility; growth; radiation sensitivity

GM-07250 GROSS, SAMSON R., Sch. Med., Duke Univ., Durham, N.C.
genetics..genes; fungi..Neurospora; mutations; genetics.. recombination; genetic mapping; leucine; enzymes; chemical structure--biological activity; proteins

GM-07428 BAKER, WILLIAM K., Grad. Sch., Univ. Chicago, Chicago, Ill.
cell differentiation; eye; pigments; testis; transplantation

GM-07486 VAN WAGTENDONK, WILLIAM J., Sch. Med., Univ. Miami, Coral Gables, Fla.
protozoa..Paramecium aurelia; immunology..antigens; amino acid

GM-07607 **CLARK, ARNOLD M., Univ. Delaware, Newark, Del.**
genetics..genome; radiation sensitivity; longevity; aging; cytology

GM-07664 **ST. LAWRENCE, PATRICIA, Col. Agr., Univ. California, Berkeley, Cal.**
cell division..meiosis; deoxyribonucleic acid replication; fungi..Neurospora; genetics..gene conversion; genetics.. recombination; tritium

GM-07665 **YOUNG, GEORGE A., Grad. Sch., Univ. Nebraska, Lincoln, Nebr.**
animal facilities; germ-free; swine (miniature)

GM-07666 **CROW, JAMES F., Sch. Med., Univ. Wisconsin, Madison, Wis.**
genetics..population genetics, animal; genetics.. homozygotes; genetics..heterozygotes

GM-07667 **LEFEVRE, GEORGE, Jr., Harvard Univ., Cambridge, Mass.**
mutations; radiation effects..whole body radiation; gametogenesis; sex behavior; fertility

GM-07779 **NANNEY, DAVID L., Grad. Sch., Univ. Illinois, Urbana, Ill.**
cell differentiation; protozoa..Tetrahymena pyriformis; cell components..cell nucleus; cytology; nutrients; immunology..antigens; histogenesis

GM-07781 **SCHURIN, MIRIAM F., Sch. Sci., Brandeis Univ., Waltham, Mass.**
cell components..ribosomes; deoxyribonucleic acid; life cycle; sedimentation constants

GM-07786 **WEIR, JOHN A., Grad. Sch., Univ. Kansas, Lawrence, Kans.**
acid-base equilibrium; blood; cell components.. mitochondria; genetics strains; glucose; lactates; radio-labeled carbon; radiolabeled iodine; thyroid gland

GM-07810 **MILKMAN, ROGER D., Grad. Sch., Syracuse Univ., Syracuse, N.Y.**
genetics..polygenes; heat; mutations; radiation effects; species

GM-07816 **STRAUSS, BERNARD S., Univ. Chicago, Chicago, Ill.**
methanesulfonic acid ethyl ester; bacteria; mutations; transforming principle; viruses..bacteriophage; deoxy-ribonucleic acid; alkylating agents; methanesulfonic acid methyl ester; nucleases

GM-07830 **BUSS, EDWARD G., Col. Agr., Pennsylvania State Univ., University Park, Pa.**
mutations; riboflavin; kidney function; phlorizin; radio-labeled carbon

GM-07951 **TOUCHBERRY, ROBERT W., Col. Agr., Univ. Illinois, Urbana, Ill.**
radiation effects; ionizing radiation; fertility; longevity; life cycle; body weight; sex difference; growth

GM-08202 **GLASSMAN, EDWARD, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
oxidases..xanthine oxidase; mutations; genetic mapping; genetics..genes; environment; Drosophila melanogaster

GM-08217 **CROW, JAMES F., Sch. Med., Univ. Wisconsin, Madison, Wis.**
genetics..trisomy; genetics..population genetics, human; cell culture; blood proteins..serum proteins; immunology; cytology

GM-08219 **STEINBERG, ARTHUR G., Grad. Sch., Western Reserve Univ., Cleveland, Ohio**
fungi..yeasts; fungi..Hansenula wingei; immunology.. agglutinins; cell components; genetic strains; age; blood ..serum; immunology..agglutinins inhibitors

GM-08238 **SALZANO, FRANCISCO M., U. Rio Grande Sul, Brazil**
blood groups; color blindness; ethnic groups; genetics.. population genetics, human; geographical sites..Brazil; haptoglobin; hemoglobin

GM-08258 **FALK, RAPHAEL, Sch. Sci., Hebrew Univ., Jerusalem, Israel**
genetics..heterozygotes; genetics..homozygotes; genetics.. population genetics (animal); mutations; radiation effects

GM-08293 **HIROTA, YUKINORI, Sch. Sci., Univ. Osaka, Osaka, Japan**
bacteria..Escherichia coli; genetics..sex factor; mutations; reproduction (microorganisms)

GM-08310 **GOLDSCHMIDT, ELISABETH, Hebrew Univ., Jerusalem, Israel**
geographical sites..Israel; ethnic groups; family..marriage; children; growth; congential abnormalities; infectious diseases; fertility; biometry; thalassemia

GM-08384 **TOMIZAWA, JUN-ICHI, Natl. Inst. Hlth., Tokyo, Japan**
deoxyribonucleic acid; viruses..bacteriophage T4; bacteria..Escherichia coli; proteins; ribonucleic acid; genetics..recombination

GM-08407 **ECHOLS, GESSNER H., Jr., Univ. Wisconsin, Madison, Wis.**
bacteria..Escherichia coli; galactose; enzymes; virus replication

GM-08489 **JAMESON, DAVID L., San Diego State Col., San Diego, Cal.**
genetics..population genetics, animal; pigments; cell differentiation; chromatophores; environment; poly-morphism, biology

GM-08677 **ROUBICEK, CARL B., Col. Agr., Univ. Arizona, Tucson, Ariz.**
heat; acclimatization; growth; nutrition; vitamin A; hemoglobin; blood proteins..serum proteins; hematocrit; protein-bound iodine

GM-08697 **BENDER, HARVEY A., Grad. Sch., Univ. Notre Dame, Notre Dame, Ind.**
fertility; genetics..pleiotropism; genetics..pseudoalleles; mutations; oogenesis; transplantation

GM-08752 **RASMUSEN, BENJAMIN A., Univ. Illinois, Urbana, Ill.**
blood groups

GM-08877 **GUSTAFSSON, AKE, Royal College of Forestry, Stockholm, Sweden**
genetics..genes; plants; mutation; radiation effects; cell differentiation; cell components..mitochondria; cell components..chloroplasts; amino acids; tissue respiration; viruses

GM-08912 **THOMPSON, PETER E., Iowa State Univ., Ames, Iowa**
genetics..chromosomes; genetics..heterozygotes; genetics.. recombination; mutations

GM-08942 **LERNER, MICHAEL I., Univ. California, Berkeley, Cal.**
ecology (animal); genetics..population genetics (animal); information exchange; mutations

GM-08995 **METZENBERG, ROBERT L., Univ. Wisconsin, Madison, Wis.**
carbohydrases..β-fructofuranosidase; chemical structure; fungi..Neurospora; immunology; mutations; proteins

GM-09203 **RIZKI, T.M., Sch. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.**
cell differentiation; mutations; adipose tissue

GM-09326 **SUTTON, H. ELDON, Sch. Arts, Sci., Univ. Texas, Austin, Tex.**
transferrin; haptoglobin; chemical structure; dehydrogen-ases..glucose-6-phosphate dehydrogenase; hemoglobin; blood groups; blood proteins

GM-09358 **WHITTINGHILL, MAURICE, Grad. Sch., Univ. North Carolina, Chapel Hill, N.C.**
genetics..crossing over; gametogenesis; crossover inducers; mutagens; statistics

GM-09468 **THULINE, HORACE C., Rainier Sch., Buckley, Wash.**
cell components..sex chromatin; fertility; genetics.. autosomes; genetics..sex chromosomes

GM-09469 **KOMAI, TAKU, Sch. Med., Kyoto Prefectural Univ., Kyoto, Japan**
genetics..population genetics, human; geographical sites.. Japan; blood disorders; hemoglobin; aminoaciduria; psychoses; nervous system disorders; nerves..motor neurons; ethnic groups..Japanese

GM-09541 **WATSON, JAMES D., Harvard Univ., Cambridge, Mass.**
proteins; bacteria; messenger ribonucleic acid

GM-09557 **PERSON, STANLEY, Pennsylvania State Univ., University Park, Pa.**
cell fluids; viscosity; diffusion; sucrose; alanine; cell components..ribosomes; viruses; radiation effects; growth, microorganisms; temperature; magnesium; bacteria

GM-09683 **GARDNER, ELDEN J., Grad. Sch., Utah State Univ., Logan, Utah**
mutations; eye; mutagens; environment; genetics..pheno-types; genetics..chromosomes

GM-09694 **KING, ROBERT C., Northwestern Univ., Evanston, Ill.**
oogenesis; invertebrate hormones; transplantation; ovary neoplasms

GM-09738 **YANOFSKY, CHARLES, Grad. Sch., Stanford Univ., Stanford, Cal.**
dehydratases..tryptophan synthetase; molecular structure; peptides; bacteria..Escherichia coli; mutations; genetics.. genes

GM-09739 **KALICKI, HENRIETTA G., Adelphia Col., Long Island, N.Y.**
juvenile hormone; corpus allatum; cytology; radioautography; genetics..genes; cell components.. cell nucleus; ribonucleic acid; deoxyribonucleic acid; cell components..mitochondria

GM-09780 **MANN, STANLEY J., Roswell Park Mem. Inst., Springville, N.Y.**
genetics..phenotypes; hair; mutations; connective tissue; genetics..heterozygotes

GM-09800 **NEWCOMER, EARL H., Grad. Sch., Univ. Connecticut, Storrs, Conn.**
cytology; genetics..chromosomes; cell components.. chromatin; tissue culture; blood cells..leukocytes

GM-09800 **NEWCOMER, EARL H., Grad. Sch., Univ. Connecticut, Storrs, Conn.**
cytology; genetics..chromosomes; cell components.. chromatin; tissue culture; blood cells..leukocytes

GM-09802 **CLANCY, CLARENCE W., Grad. Sch., Univ. Oregon, Eugene, Ore.**
fertility; transplantation; ovary; genetics..pseudoalleles

GM-09848 **NESTER, EUGENE W., Sch. Med., Univ. Washington, Seattle, Wash.**
deoxyribonucleic acid; chemical structure; transformation; bacteria..Bacillus subtilis; genetic mapping; amino acid inhibitors; histidine; aromatic amino acids

GM-09886 **CHOVNICK, ARTHUR, Col. Arts, Sci., Univ. Connecticut, Storrs, Conn.**
genetics..recombination; genetic mapping

GM-09887 **SUSSMAN, ALFRED S., Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.**
fungi..Neurospora; genetics..genes; cyclic functions; growth, microorganisms; cytology; tissue respiration; cell differentiation; growth inhibitors

GM-09912 **BENNETT, DOROTHEA, Med. Col., Cornell Univ., New York, N.Y.**
genetics..chromosomes; embryology; mutations; genetics.. recombination; spermatozoa; cytology; proteins

GM-09914 **SANDBERG, AVERY A., Health Res., Inc., Buffalo, N.Y.**
genetics..karyotypes; genetics..population genetics; congenital abnormalities; statistics; epidemiology; children; infant human..newborn; leukemia..myeloid leukemia

(cont'd)

GENETICS (CONTD)

GM-09914 SANDBERG, AVERY A., Hlth. Res., Inc., Buffalo, N.Y.
genetics..population genetics, human; genetics..chromosomes; family; morbidity; longitudinal study

GM-09917 EPHRUSSI-TAYLOR, HARRIETT, Western Reserve Univ., Cleveland, Ohio
transformation; bacteria; genetics..recombination; genetics..hybrids; deoxyribonucleic acid

GM-09941 SUTHERLAND, THOMAS M., Col. Agr., Colorado Res. Fdn., Fort Collins, Colo.
body weight; genetics..phenotypes; statistics

GM-09965 SANDLER, LAURENCE M., Univ. Washington, Seattle, Wash.
cytology; genetics..chromosomes; genetics..crossing over; cell division..meiosis; genetics..phenotypes

GM-09966 RUDDLE, FRANK H., Yale Univ., New Haven, Conn.
genetics..chromosomes; genetics..heterozygotes; tissue culture; enzymes; starch gel electrophoresis; kidney

GM-10067 WOODWARD, DOW O., Grad. Sch., Stanford Univ., Stanford, Cal.
genetics..alleles; genetics..complementation; fungi..Neurospora crassa; heterokaryons; amidine-lyases..adenylosuccinate lyase; molecular rearrangement; cell components..cytoplasm

GM-10112 WOLFF, GEORGE L., Inst. Cancer Res., Philadelphia, Pa.
genetics..genes; somatotropin; pituitary gland; transplantation; parabiosis; proteins; carcinogenesis

GM-10113 SINGER, RONALD., Grad. Sch. Biol. Sci., Univ. Chicago, Chicago, Ill.
anthropology; ethnic groups; genetics; geographical sites..Africa; paleontology; phylogeny

GM-10165 ENGLESBERG, ELLIS, Univ. Pittsburgh, Pittsburgh, Pa.
genetics..genes; bacteria..Escherichia coli; permeases..L--arabinose permeases; isomerases..L--ribulose--5--phosphate--3--epimerase; mutations; carbohydrates; bacteria..Salmonella typhimurium; glucose

GM-10189 McKUSICK, VICTOR A., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
biometry; blood groups; computer analysis; congenital abnormalities; cytology; enzymes; genetic mapping; genetics..chromosomes; research programs

GM-10216 WOODWARD, VAL W., Rice Univ., Houston, Tex.
fungi..Neurospora crassa; mutations; heterokaryons; genetic mapping; transcarbamylases..asopartate transcarbamylase; transcarbamylases..ornithine transcarbamylase

GM-10236 LES, EDWIN P., Roscoe B. Jackson Mem. Lab., Bar Harbor, Me.
diet; environment; genetics..genotypes; growth; noise; photoperiodism; reproduction; temperature

GM-10238 SAKAGUCHI, BUNGO, Natl. Inst. Genetics, Misima, Japan
disease transmission; spirochetes; sex difference; species; life cycle; hose-parasite; microbial culture

GM-10256 SCHWINCK, ILSE, Grad. Sch., Univ. Connecticut, Storrs, Conn.
genetics..pleiotropism; genetics..phenotypes; pteridines; temperature; body fluids; oxidoreductases..xanthine dehydrogenase

GM-10260 KAPLAN, WILLIAM D., City Hope Med. Cr., Duarte, Cal.
adenine; cytidine; deoxyribonucleic acid; genetic mapping; genetics..sex chromosomes; mutations; radiation effects; thymidine; tritium

GM-10327 GREENBLATT, IRWIN M., Col. Liberal Arts., Marquette Univ., Milwaukee, Wis.
cell components..heterochromatin; corn; cytology; genetics..genes; genetics..phenotypes; mutations; pigments

GM-10424 MORTON, NEWTON E., Univ. Hawaii, Honolulu, Hawaii
blood groups; computer analysis; genetics..population genetics (human); Gm factor; haptoglobin; immunology..antibodies; medical records; polymorphism (biological); research programs; saliva

GM-10444 COHEN, CARL, Western Reserve Univ., Cleveland, Ohio
blood groups; serology; genetics..gene interaction; maternal-fetal; immunology..isoantigens

GM-10474 MANN, JOSEPH D., Butterworth Hosp., Grand Rapids, Mich.
immunology..Xga antigen; genetics..sex chromosomes; sex differentiation abnormalities; muscular dystrophy; hemophilia; color blindness; congenital abnormalities; spermatozoa; blood groups..rare blood groups; genetic mapping

GM-10476 ALLARD, ROBERT W., Col. Agr., Univ. California, Davis, Cal.
environment; genetics..population genetics, plants; mathematical models; mutations; reproduction

GM-10477 CHAMPE, SEWELL P., Grad. Sch., Purdue Univ., Lafayette, Ind.
bacteria..Escherichia coli; deoxyribonucleic acid; messenger ribonucleic acid; mutations; nucleotide sequence; pyrimidine analogs; viruses..bacteriophage T4

GM-10480 HILLMAN, RALPH, Col. Liberal Arts, Temple Univ., Philadelphia, Pa.
embryology; head; sense organs; nervous system..central nervous system; congenital abnormalities

GM-10481 DRUGER, MARVIN, Col. Liberal Arts, Syracuse Univ., Syracuse, N.Y.
genetics..canalization; genetics..population genetics, animal; phylogeny; mutations; genetics..phenotypes; environment

GM-10499 KAUFMANN, BERWIND P., Sch. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
genetics..chromosomes; genetics..genes; mutagens; nucleases; proteases; cell division

GM-10503 RASCH, ELLEN M., Grad. Sch., Marquette Univ., Milwaukee, Wis.
cell differentiation; cell components..cell nucleus; genetics..chromosomes; deoxyribonucleic acid replication; juvenile hormone; nucleic acids; proteins; radiolabeled

GM-10505 ISHIKAWA, TATSUO, Grad. Sch., Univ. Tokyo, Tokyo, Japan
genetics..complementation; genetics..recombination; fungi..Neurospora crassa; bacteria..Salmonella typhimurium; adenine; uracil; heterokaryons; transduction; mutations; genetic mapping; carbohydrases..alpha--amylase

GM-10601 POLLITZER, WILLIAM S., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
genetics..genes; genetics..pleiotropism; genetics..hybrids; ethnic groups; geographical sites..United States, Southeastern; isolation; anthropometry; dental structure; blood groups; hemoglobin; skin; pigments; congenital abnormalities; paleontology; twins

GM-10640 HARDY, D. ELMO, Grad. Sch., Univ. Hawaii, Honolulu, Hawaii
taxonomy; flies; phylogeny; ecology, animal; genetics..chromosomes; sex behavior; geographical sites..United States; genetics..population genetics

GM-10672 HOWE, H. BRANCH, Jr., Grad. Sch., Univ. Georgia, Athens, Ga.
fungi..Neurospora tetrasperma; genetic mapping; genetics..hybrids; hemothallic reproduction; mutations

GM-10717 TATUM, EDWARD L., Rockefeller Inst., New York, N.Y.
cell culture; melanoma S91; L--cells; ribonucleic acid; actinomycins; viruses

GM-10735 MEREDITH, WILLIAM, Univ. California, Berkeley, Cal.
emotional reactions; exploratory behavior; environment; biometry

GM-10739 CARLTON, BRUCE C., Yale Univ., New Haven, Conn.
genetic mapping; proteases; bacteria..Bacillus subtilis; mutations; amino acid sequence; chemical structure--biological activity

GM-10754 LOONEY, WILLIAM B., Sch. Med., Univ. Virginia, Charlottesville, Va.
computer analysis; deoxyribonucleic acid; genetics..chromosome replication; liver cells; mathematical models; radiation effects; x-rays

GM-10755 BAMFORD, SOPHIA B., New England Center Hosp., Boston, Mass.
cell components..sex chromatin; genetics..sex chromosomes; blood cells..neutrophil leukocytes; amenorrhea; Klinefelter's syndrome; congenital abnormalities; hypoparathyroidism

GM-10789 LEDLEY, ROBERT S., Natl. Biomedical Res. Fdn., Silver Spring, Md.
genetics..karyograms; genetics..chromosomes; genetics..karyotypes; instrumentation--methodology; computer programming; tritium

GM-10819 VON WETTSTEIN, DITER, Univ. Copenhagen, Copenhagen, Denmark
cell components..chloroplasts; mutations; porophyrins; amino acids; proteins; messenger ribonucleic acid; cell components..cytoplasm; deoxyribonucleic acid

GM-10838 WAGNER, JUANITA H., Washington State Univ., Pullman, Wash.
genetics..chromosomes; oxygen; temperature; mutagens; body water; ethyl ethane sulfonate; embryology; methanesulfonic acid ethyl ester; tissue; alkylating agents; cytology; sulfonates

GM-10914 CRENSHAW, JOHN W., Jr., Grad. Sch., Univ. Maryland, College Park, Md.
mutations; radiation effects; fertility; beetles; reproduction

GM-10951 HECHT, ADOLPH, Col. Sci., Arts, Washington State Univ., Pullman, Wash.
genetic strains; genetics..population genetics, plants; growth inhibitors; histocompatibility; plants; reproduction

GM-11042 CLAYTON, FRANCES E., Col. Arts, Sci., Univ. Arkansas, Fayetteville, Ark.
radiation effects; spermatogenesis

GM-11077 WARING, HORACE, Univ. Western Australia, Nedlands, Western Australia
genetics..population genetics, human; genetics..genes; ethnic groups; geographical sites..Asia; geographical sites..Australia; medical records; blood groups; serology; travel; survey

GM-11078 LUBS, HERBERT A., Jr., Sch. Med., Yale Univ., New Haven, Conn.
aging; cell division..mitosis; chimeras; congenital abnormalities; environment; family; genetics; genetics..chromosomes; genetics..trisomy; hyperthyroidism; neoplastic cells

GM-11079 LOPER, JOHN C., Sch. Med., Univ. Cincinnati, Cincinnati, Ohio
bacteria..Salmonella typhimurium; oxidoreductases..histidinol dehydrogenase; histidine; genetics..gene interaction; genetic strains; cell--free systems; radiolabeled carbon; proteins; deoxyribonucleic acid; chemical structure; immunology; genetics..complementation

GM-11084 **GOTTLIEB, FREDERICK J.**, Univ. Pittsburgh, Pittsburgh, Pa.
skin; cell differentiation; mutations; genetics..gene interaction; genetics..sex chromosomes; life cycle

GM-11094 **CRIBBS, RICHARD M.**, Med. Col. Virginia, Richmond, Va.
bacteria..Escherichia coli; genetics..recombination; mutations; arabinose; genetic mapping; mutagens; culture media

GM-11099 **HUFFMAN, DONALD M.**, Central Col., Pella, Iowa
fungi..Acrasiales; fungi..slime molds; genetic strains; life cycle; sex difference; reproduction; genetics..recombination; heterokaryon; parasexuality

GM-11111 **ALSTON, RALPH E.**, Grad. Sch., Univ. Texas, Austin, Tex.
Baptisia; screening; chemical structure; genetics..hybrids; genetics..population genetics, plants; survey; phenols; alkaloids
polypeptides; steridines; enzymes; life cycle; phylogeny

GM-11216 **HUBBY, JOHN L.**, Grad. Sch., Univ. Chicago, Chicago, Ill.
genetics..genes; mutations; proteins; molecular structure;

GM-11225 **TUPPY, HANS**, Univ. Vienna, Vienna, Austria
cell components..mitochondria; respiratory enzymes; electron transport; mutations; fungi..Saccharomyces cerevisiae; anaerobiosis; deoxyribonucleic acid

GM-11230 **INHORN, STANLEY L.**, Sch. Med., Univ. Wisconsin, Madison, Wis.
genetics..chromosomes; radioautography; instrumentation--methodology; tritium; thymidine; deoxyribonucleic acid; congenital abnormalities; pregnancy..placenta; fetus; statistics; genetics..karyograms; pregnancy..abortion; genetics..trisomy

GM-11354 **FRIEDMAN, LAWRENCE D.**, Hiram Col., Hiram, Ohio
alkylating agents; genetics..lethals; genetics..population genetics (animal); genetics..sex chromosomes; germ cells; insecticides; mutagens; mutations; spermatozoa

GM-11379 **GERSH, EILEEN SUTTON**, Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
genetic mapping; genetics..genes; genetics..gene interaction; genetics..sex chromosomes; phylogeny

GM-11430 **OMACHI, AKIRA**, Col. Med., Univ. Illinois, Chicago, Ill.
adenosine triphosphate; antimetabolites; blood cells..erythrocytes; cell components..cell membrane; membrane permeability; phosphates; radiolabeled phosphorus

GM-11445 **WHITNEY, RAE**, Elmira Col., Elmira, N.Y.
genetics..genes; histocompatibility; pigments; reproduction

GM-11448 **LAIDLAW, HARRY H.**, Col. Agr., Univ. California, Davis, Cal.
embryology; genetics..alleles; genetics..lethals; genetics..polyploidy; genetics..sex determination; nutrients

GM-11449 **LEE, WILLIAM R.**, Grad. Sch., Univ. Texas, Austin, Tex.
behavior; cold; freezing; gamma rays; genetics..chromosomes; genetics..genes; mutagens; mutations; radiation effects; radioisotopes..phosphorus 32; spermatozoa

GM-11474 **REDEI, GYORGY P.**, Col. Agr., Univ. Missouri, Columbia, Mo.
cell division..meiosis; cell division..mitosis; chimeras; cress; crossover inducers; genetics..crossing over; genetics..recombination; mutagens

GM-11475 **SPIELER, RICHARD A.**, Grad. Sch., Illinois Inst. Technology, Chicago, Ill.
genetics..chromosomes; cell division..meiosis; genetics..chromosome loss; genetics..chromosome nondisjunction; genetic mapping

GM-11476 **BELL, A. EARL**, Agr. Exptl. Station, Population Genetics Inst., Purdue Univ., Lafayette, Ind.
genetics..population genetics, animal; prediction; genetic strains; reproduction; computer analysis; laboratory animals

GM-11478 **INFANGER, SISTER ANN MARTIN**, Seton Hill Col., Greensburgh, Pa.
cell components..cell nucleus; cell components..cytoplasm; cell components..heterokaryons; fungi..Neurospora; genetics..recombination

GM-11493 **PAVAN, CRODOWALDO**, Univ. Sao Paulo, Sao Paulo, Brazil
deoxyribonucleic acid; ribonucleic acid; proteins; genetics..polysomaty; diptera; drugs; radiation effects; mutagens; carcinogens; protozoa..Microsporidia; infectious diseases; viruses

GM-11537 **HERSKOWITZ, IRWIN H.**, Hunter Col, City Univ. New York, New York, N.Y.
mutation; genetics..chromosomes; genetics..sex chromosomes; cell types; cell differentiation; axenic culture; nutrients; mutagens; triazines; cell age; spermatozoa; fungi..yeasts; bacteria; viruses; symbiosis; nucleotides; cell components..heterochromatin

GM-11549 **LEVINE, LAURENCE**, Sch. Liberal Arts, Wayne State Univ., Detroit, Mich.
genetics..chromosome movement; cell division..meiosis; spermatocytes; hemolymph; instrumentation--methodology; osmotic pressure; water--electrolyte balance

GM-11556 **KLINGER, HAROLD P.**, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
genetics..chromosomes; congenital abnormalities; genetic mapping; cell components..sex chromatin; blood cells..leukocytes; cell division..mitosis; cell division..meiosis; culture media; bone marrow; testis; hydatidiform mole; medical records

GM-11612 **WALL, J. ROBERT**, Louisiana State Univ., New Orleans, La.
biometry; genetics..hybrids; genetics..population genetics, plants; genetics..recombination; Phaseolus

GM-11614 **JENKINS, JAMES A.**, Col. Agr., Univ. California, Berkeley, Cal.
genetics..gene interaction; histogenesis; mutations; growth factors; tomato

GM-11615 **ENGEL, ERIC**, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
diabetes; family; genetics..chromosomes; genetics..trisomy; mongolism; sex difference; sex differentiation abnormalities; thyroiditis..allergic thyroiditis

GM-11617 **BOWMAN, JAMES E.**, Sch. Med., Univ. Chicago, Chicago, Ill.
blood cells..erythrocytes; ethnic groups..Negroes; ethnic groups..whites; genetics..population genetics (human); genetics..set chromosomes; glucose-6-phosphate dehydrogenase deficiency; primaquine sensitivity

GM-11627 **HOCHMAN, BENJAMIN**, Univ. Tennessee, Knoxville, Tenn.
genetics..chromosomes; mutations; genetic mapping; genetics..population genetics, animal

GM-11679 **TAUB, STEPHEN R.**, Grad. Sch., Princeton Univ., Princeton, N.J.
protozoa..Paramedium aurelia; genetics..sex determination; cell differentiation; cell components..cell nucleus; mutations; deoxyribonucleic acid analogs; ribonucleic acid analogs

GM-11702 **WIMBER, DONALD E.**, Univ. Oregon, Eugene, Ore.
cell division..meiosis; cell division..mitosis; genetics..chromosome replication; genetics..crossing over; deoxyribonucleic acid; tritium; plants..roots; population dynamics, cell; cell components..chloroplasts

GM-11726 **ATTARDI, GIUSEPPE**, California Inst. Technology, Pasadena, Cal.
research programs; HeLa cells; L-cells; ribonucleic acid; cell components..ribosomes; cell components..polysomes; cell division; messenger ribonucleic acid; cell differentiation; chemical structure--biological activity; proteins; deoxyribonucleic acid; radiolabeled phosphorus; genetics..genes; genetics..hybrids; fractionation

GM-11753 **RAI, KARAMJIT S.**, Col. Sci., Univ. Notre Dame, Notre Dame, Ind.
genetics..chromosomes; genetics..hybrids; genetics..population genetics, animal; life cycle; mutagens; phylogeny; radiation effects; spermatogenesis

GM-11758 **HOHL, HANS-RUDOLF**, Univ. Hawaii, Honolulu, Hawaii
cell components..cell sheath; cell differentiation; cellulose; fungi..slime molds; histogenesis; life cycle; spores

GM-11777 **FOX, ALLEN S.**, Univ. Wisconsin, Madison, Wis.
proteins; oxidoreductases..xanthine dehydrogenase; cell components..heterochromatin; deoxyribonucleic acid; transformation; nucleic acids; cell differentiation

GM-11778 **FRASER, ALEXANDER S.**, Col. Agr., Univ. California, Davis, Cal.
computer programming; genetics..gene interaction; genetics..chromosome inversion; genetics..population genetics, animal; instrumentation--methodology; congenital abnormalities; mathematical models

GM-11782 **VOLPE, E. PETER**, Newcomb Col. Tulane Univ., New Orleans, La.
genetics..genes; genetics..phenotypes; pigments; mutations; chimeras; melanoblasts; transplantation; embryology

GM-11790 **ALEXANDER, HATTIE E.**, Babies Hosp., N.Y.C.
bacteria..Hemophilus; bacteria..Hemophilus parainfluenzae; cell; cell components..cell wall; deoxyribonucleic acid; galactose; galactosemia; genetics..chromosomes; neoplastic cells; phosphotransferase..UTP : alpha-D-galactose-1-phosphate; radiolabeled carbon; retinoblastoma; skin; spleen; transformation; viruses..enteroviruses

GM-11848 **FORBES, CLIFFORD**, Sch. Letters, Sci., Univ. Idaho, Moscow, Idaho
cell division..meiosis; genetics..sex chromosomes; genetics..chromosome inversion; genetics..recombination; genetics..crossing over; genetics..chromosome translocations

GM-11860 **COLE, THOMAS A.**, Col. Liberal Arts, Wabash Col., Crawfordsville, Ind.
bacteria..Escherichia coli; cell components..ribosomes; chemical structure--biological activity; Drosophila melanogaster; enzymes; genetics..gene interaction; histogenesis; messenger ribonucleic acid; proteins

GM-11863 **NEEL, JAMES V.**, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
genetics..population genetics, human; ethnic groups..Caiapo Indians; immunology; socioculture; population dynamics, human; infectious diseases; geographical sites..Latin America

GM-11879 **LEVINS, RICHARD**, Col. Natural Sci., Univ. Puerto Rico, Rio Piedras, P.R.
acclimatization; diurnal variation; Drosophila; environment; feeding behavior; genetic strains; geographical sites..Puerto Rico; homeostasis; life cycle; population dynamics, animal; temperature

(contd)

GENETICS (CONTD)

GM-11880 GEORGHIOU, GEORGE P., Col. Agr., Univ. California, Riverside, Cal.
carbamates; dieldrin; fertility; genetic strains; insecticides resistance; toxicology

GM-11881 WEARDEN, STANLEY, Kansas State Univ. Agr. and Applied Sci., Manhattan, Kans.
Drosophila melanogaster; genetics..genotypes; phosphorus; environment; malathion; photosensitivity; response; genetic strains

GM-11882 CAMERON, H. RONALD, Sch. Sci., Oregon State Univ., Corvallis, Ore.
deoxyribonucleic acid replication; fungi..Neurospora crassa; genetics..chromosomes; genetics..crossing over; genetics..heterozygotes; genetics..recombination

GM-11895 HALL, BENJAMIN D., Col. Arts, Sci., Univ. Washington, Seattle, Wash.
messenger ribonucleic acid; bacteria..Escherichia coli; viruses..bacteriophage T2; chemical structure; cell components..ribosomes; deoxyribonucleic acid

GM-11898 JENSEN, NEAL F., Col. Agr., Cornell Univ., Ithaca, N.Y.
genetics..chromosome translocations; genetics..hybrids; genetics..population genetics, plants; phylogeny; radiation effects; wheat

GM-11899 McFALL, ELIZABETH, Sch. Med., New York Univ., New York, N.Y.
serine; deaminases; bacteria..Escherichia coli; carbohydrases..beta--galactosidase; genetic mapping; mutations; enzyme inhibitors

GM-11955 STRICKBERGER, MONROE W., Grad. Sch., St. Louis Univ., St. Louis, Mo.
genetics..population genetics, animal; Drosophila; genetics..recombination; mutations; environment; genetics..chromosomes; geographical sites..Missouri

GM-11957 STENT, GUNTHER S., Univ. California, Berkeley, Cal.
cell components..ribosomes; proteins; bacteria..Escherichia coli; fractionation; chemical structure; immunology..antigen-antibody reactions; genetics..recombination; mutations; temperature

GM-12008 ADAMS, JAMES N., Sch. Med., Univ. South Dakota, Vermillion, S.D.
actinomycetes..Nocardia; genetics..recombination; auxotrophs; genetic strains; microbial culture; genetics..gene interaction; drugs resistance; genetics..crossing over

GM-12017 FINGER, IRVING, Haverford Col., Haverford, Pa.
immunology..antigens; protozoa..Paramecium aurelia; genetics..genes; molecular structure; genetics..heterozygotes; fractionation; genetics..phenotypes; reaction sites

GM-12018 PIPKIN, SARAH B., Johns Hopkins Univ., Baltimore, Md.
population dynamics, animal; polymorphism (biology); genetics..hybrids

GM-12046 MAKELA, V.E. OLAVI, Sch. Med., Univ. Helsinki, Helsinki, Finland
plasma cells; immunology..antibodies; immunology..antigens; bacteria..Salmonella; genetics; immunology..flagellar antigens, bacteria; immunology..somatic antigens

GM-12093-1 GREGG, THOMAS G., Col. Arts, Sci., Miami Univ., Oxford, Ohio
cell division..meiosis; cell components..heterochromatin; genetics..sex chromosomes; genetics..crossing over

GM-12131 SCHWINGHAMER, ERWIN A., Sch. Sci., Oregon State Univ., Corvallis, Ore.
bacteria..Rhizobium; symbiosis; mutation; genetics..recombination; transduction; host--parasite; antibiotics..viomycin; nitrogen fixation; genetics..genotypes; genetic strains

GM-12188 ALTENBURG, EDGAR, Univ. St. Thomas, Houston, Tex.
mutagens; mutations; genetics..genes; radiation effects; x--rays; spermatozoa

GM-12189 MARTOF, BERNARD S., North Carolina State of Univ. N.C., Raleigh, N.C.
albinism; genetics; ecology, animal; behavior; oxidation; liver; metamorphosis; pituitary gland; radiation fallout

GM-12190 RASMUSSEN, DAVID I., Col. Liberal Arts, Arizona State Univ., Tempe, Ariz.
polymorphism, biology; genetics..population genetics, animal; genetic strains; hemagglutinins; hemoglobin; esterases; transferrin; haptoglobins

GM-12191 KLEINFELD, RUTH G., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
genetics..chromosomes; deoxyribonucleic acid; deoxyribonucleic acid replication; ribonucleic acid; actinomycin D; tritium; radiolabeled carbon

GM-12193 RAY, DAVID T., Grad. Sch., Howard Univ., Washington, D.C.
mutations; radiation effects; x-rays; metamorphosis; gametogenesis; fertility; genetics..lethals; eye; pigments

GM-12219 GOLDSCHMIDT, EUGENE, Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
bacteria..Escherichia coli K12; mutations; microbial culture; genetics..genes; genetic mapping; sex difference; proteins; amino acids; viruses..coliphage; host--virus

GM-12220 TEPLITZ, RAYMOND L., City Hope Med. Cr., Duarte, Cal.
genetics..recombination; genetics..chromosomes; genetics..diploidy; genetics..polyploidy; cell division..mitosis

GM-12222 ALLEN, ARCHIE C., Sch. Arts, Sci., Texas Technological Col., Lubbock, Tex.
Drosophila melanogaster; genetics..population genetics, animal; genetics..chromosomes; genetics..lethals

GM-12265 NAEGELE, JOHN A., Col. Agr., Waltham Field Station, Univ. Massachusetts, Waltham, Mass.
insecticides resistance; mites; carbohydrates; hexose monophosphate pathway; glycolysis; Krebs cycle; transacylases..choline transacylases; cholinesterases..acetylcholinesterase; carboxylic ester hydrolases..carboxylic ester hydrolases (aliesterase); reproduction; genetics; photosensitivity

GM-12266 LINDEGREN, CARL C., Southern Illinois Univ., Carbondale, Ill.
cytology; fungi..Saccharomyces; genetics..genes; genetics..chromosomes; genetics..crossing over; deoxyribonucleic acid; ribonucleic acid; enzymes; cell components..mitochondria; cell components..ribosomes

GM-12325 SAGER, RUTH, Columbia Univ., New York, N.Y.
algae..Chlamydomonas; cell components..cytoplasm; drugs resistance; streptomycin; nucleic acids; cell components..chloroplasts

GM-12334 JUDD, BURKE H., Grad. Sch. Arts, Sci., Univ. Texas, Austin, Tex.
Drosophila melanogaster; genetics..sex chromosomes; genetics..gene interaction; genetics..recombination; mutation; reaction sites

GM-12336 LEVINE, ROBERT P., Harvard Univ., Cambridge, Mass.
algae..Chlamydomonas reinhardi; mutations; mutagens; ultraviolet rays; photosynthesis; electron transport

GM-12351 WOOLF, CHARLES M., Col. Liberal Arts, Arizona State Univ., Tempe, Ariz.
head neoplasms; genetic strains; genetics..heterozygotes; genetics..population genetics (animal); genetics..chromosome inversion

GM-12353 KIKUDOME, GARY Y., Col. Arts, Sci., Univ. Missouri, Columbia, Mo.
cell components..heterochromatin; genetics..crossing over; genetics..chromosomes; chemical structure--biological activity; 3,6--1H,2H--pyridazinedione; radiation effects; corn

GM-12400 STEINITZ-SEARS, L.M., Univ. Missouri, Columbia, Mo.
cress; genetics..chromosomes; genetics..recombination; genetic mapping; cell division..mitotic apparatus; genetics..chromosome translocations

GM-12401 SEARS, E.R., Sch. Agr., Univ. Missouri, Columbia, Mo.
wheat; genetics..chromosomes; genetic mapping

GM-12412 ANDERSON, DWIGHT L., Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
actinomycetes; auxotrophs; genetic strains; genetics..recombination; genetics..hybrids; lysogeny; transduction

GM-12431 KEZER, JAMES, Col. Liberal Arts, Univ. Oregon, Eugene, Ore.
genetics..sex chromosomes;cell division..meiosis; phylogeny; geographical sites..North America; geographical sites..Latin America

GM-12433 SUIT, JOAN L., Univ. Texas Med. Cr., M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
genetics..genome; bacteria..Escherichia coli K12..conjugation; deoxyribonucleic acid; ribonucleic acid; chemical structure--biological activity; genetics..recombination; viruses..bacteriophage; host--virus; calcium; virus replication

GM-12435 JACOBS, MERLE E., Goshen Col., Goshen, Ind.
melanin; melanoma; radiation counters; metabolites

GM-12454 MORTON, NEWTON E., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii
genetics..population genetics, human; genetics..population genetics, animal; genetics..phenotypes; polymorphism (biology); blood groups; geographical sites..Japan; geographical sites..Brazil; geographical sites..Hawaii; pregnancy loss; fetus; mortality; immunology..antigen--antibody reactions; cell division..meiosis; Drosophila melanogaster; biomathematics; cooperative study; publications..literature survey

GM-12463 KESSLER, DIETRICH, Haverford College, Haverford, Pa.
genetics..chromosomes; nucleic acids; reaction sites; fungi..Physarum polycephalum; life cycle

GM-12486 DeFRIES, JOHN C., Col. Agr., Univ. Illinois, Urbana, Ill.
free behavior; genetics..genotypes; genetic strains; ecology, animal; stress; ovary transplantation; maternal--fetal

GM-12487 GAREN, ALAN, Grad. Sch., Yale Univ., New Haven, Conn.
phosphomonoesterases..alkaline phosphatases; genetics..genotypes; proteins; bacteria..Escherichia coli; tritium; radiolabeled carbon

GM-12501 COLEMAN, WILLIAM, Johns Hopkins Univ., Baltimore, Md.
genetics; publications..history of medicine

GM-12510 BROOKS, THOMAS J., Jr., Univ. Mississippi Med. Cr., Jackson, Miss.
ethnic groups; geographical sites..Costa Rica; blood groups; immunology..antigens; blood cells..erythrocytes; immunological tests; genetics..chromosomes; genetics..population genetics, human

GM-12513 MULCAHY, DAVID L., Univ. Georgia, Athens, Ga.
aquatic plants; genetics; phylogeny; reproduction; biological control

GM-12549 VAN VALEN, LEIGH, American Museum Natural History, New York, N.Y.
insects; mammals; population dynamics..animal; genetic strains; phylogeny; statistics; computer analysis

GM-12561 MI, MING-PI, Grad. Sch., Univ. Hawaii, Honolulu, Hawaii
geographical sites..Hawaii; genetics..population genetics, human; blood groups; documentation systems; computer analysis; pregnancy loss; pregnancy..childbirth; congenital abnormalities; biometry; ethnic groups..racial types

GM-12581 DOERMANN, AUGUST H., Univ. Washington, Seattle, Wash.
viruses; symbiosis; computer analysis

GM-12610 ALTENBURG, EDGAR, Univ. St. Thomas, Houston, Tex.
genetics..crossing over; genetics..pseudoalleles; genetics..gene conversion

GM-12651 BAUMILLER, ROBERT C., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
Drosophila melanogaster; viruses..insects viruses; host--virus; genetics..genotypes; mutation; genetics..heterozygotes; symbiosis; phylogeny; sigma factor

GM-12682 TOWNSEND, J. IVES, Med. Col. Virginia, Richmond, Va.
Drosophila; genetic strains; population dynamics, animal; genetics..genes; genetics..hybrids; salivary glands

GM-12702 SHERMAN, FRED, Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
cytochrome C; genetics..genes; mutation; molecular structure; fungi..yeasts

GM-12711 DORN, GORDON L., Albert Einstein Col. Med., New York, N.Y.
fungi..Aspergillus; phosphomonoesterases; genetics ..genes; enzymes..isoenzymes

GM-12715 CASPARI, ERNST W., Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.
moths; genetics..pleiotropism; genetics..genes; tryptophan; enzyme inhibitors..oxidase inhibitors; proteins; amidohydrolases..tryptophan pyrrolase; binding

GM-12779 LENHOFF, HOWARD M., Sch. Arts, Sci., Univ. Miami, Coral Gables, Fla.
mutation; transplantation..heterotransplantation; reproduction; genetics..genome; genetics..gene expression; cell types; cell migration

GM-12813 HARM, WALTER, Southwest Gr. Advanced Studies, Dallas, Tex.
ultraviolet rays; radiation effects; bacteria; viruses..bacteriophage; genetics..genes; deoxyribonucleic acid; ribonucleic acid; mutation; photochemistry; photobiology

GM-12953 SRB, ADRIAN M., Sch. Agr., Cornell Univ., Ithaca, N.Y.
genetics..chromosomes; cell components..cytoplasm; fungi.. Neurospora; proteins; species; genetic strains; genetic mapping

GM-12956 YOUNG, FRANK E., Scripps Clinic, Res. Fdn., La Jolla, Cal.
cell components..cell wall; transformation; deoxyribonucleic acid; binding; reaction sites; genetics.. recombination; autolysis; cell--free systems; bacteria ..Bacillus subtilis; genetic strains; cell culture; metabolic diseases..inborn

GM-12975 WOLFE, H. GLENN, Col. Liberal Arts, Sci., Univ. Kansas, Lawrence, Kans.
ovulation; gonadotropins; genetics..genotypes; genetic strains; genetics..pleiotropism; blood..plasma; urine; dosage

GM-13199 GILLHAM, NICHOLAS W., Fac. Arts, Sci., Harvard Univ., Cambridge, Mass.
algae..Chlamydomonas reinhardi; mutation; auxotrophs; genetics..chromosomes; mutagens; antibiotics..streptomycin; methyl nitrosoguanidine; cell components..ribosomes; proteins; amino acids; genetics..recombination

GM-13222 BUETTNER-JANUSCH, JOHN, Duke Univ., Durham, N.C.
blood proteins..serum proteins; hemoglobin; transferrin; haptoglobin; primates

GM-13544 GOLD, MARVIN, Albert Einstein Col. Med., Bronx, N.Y.
deoxyribonucleic acid; methylation; viruses.. bacteriophage; bacteria..Escherichia coli; host--virus; chemical structure--biological activity; virus replication; enzymes; lysogeny; viruses.. prophage

GM-13561 CHMURA, NORMAN W., Chatham Col., Pittsburgh, Pa.
radiation effects; radiation sensitivity; genetics; mutations; bacteria; deoxyribonucleic acid

HD-00033 ROSENBERG, HARVEY S., Texas Children's Hosp., Houston, Tex.
mongolism; genetics..chromosome translocations; genetics ..trisomy; family; blood cells..leukocytes

HD-00036 EATON, GORDON J., Barrington Col., Barrington, R.I.
embryology; cell differentiation; giant cells; trophoblast; pregnancy..implantation; genetics.. lethals; progesterone; dehydrogenases..succinate dehydrogenase; carbohydrases..amylase; carbohydrases.. hyaluronidase; nucleoproteins

HD-00061 MOTULSKY, ARNO G., Sch. Med., Univ. Washington, Seattle, Wash.
blood cells..erythrocytes; sickle cell anemia; thalassemia; genetics..genes; genetics..gene interaction; color blindness; ethnic groups..Negroes; ethnic groups.. whites; glucose--6--phosphate dehydrogenase deficiency; malaria; age; geographical sites..Europe

HD-00062 STERNBERG, WILLIAM H., Sch. Med., Tulane, Univ. New Orleans, La.
sex differentiation abnormalities; Turner's syndrome; blood cells..leukocytes; tissue culture; gonads; family; interviews

HD-00165 INGALLS, THEODORE H., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
genetics; congenital abnormalities; publications.. literature survey; epidemiology; cytology

HD-00175 HUNTER, W. STUART, Sch. Dent., Univ. Michigan, Ann Arbor, Mich.
face; growth; twins; siblings

HD-00195 HARMAN, PINCKNEY J., Sch. Med., Seton Hall Col., Jersey City, N.J.
neuromuscular disorders; muscular dystrophy; congenital abnormalities; muscle; oxidoreductases.. cytochrome oxidases; aldolases; phosphatases.. adenosine triphosphatase; embryology

HD-00315 WRIGHT, STANLEY W., Pacific State Hosp., Pomona, California
congenital abnormalities; family; genetics..chromosome translocations; mental retardation; siblings

HD-00320 LAMY, MAURICE, Hospital des Enfants-Malades, Paris, France
mental retardation; blood; urine; cerebrospinal fluid; genetics, chromosomes; blood cells, leukocytes; congenital abnormalities; sex differentiation abnormalities

HD-00337 WALD, NIEL, Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
genetics..chromosomes; genetics..phenotypes; mongolism; family..parents; leukemia; radiation effects

HD-00338 PATAU, KLAUS, Sch. Med., Univ. Wisconsin, Madison, Wis.
congenital abnormalities; genetics..trisomy; genetics.. chromosomes; family; genetic mapping; cytology

HD-00350 THULINE, HORACE C., Ranier Sch., Buckley, Wash.
genetics..chromosomes; genetics..sex chromosomes; cell components..chromatin; tritium; deoxyribonucleic acid replication

HD-00358 PALMER, CATHERINE G., Sch. Med., Indiana Univ., Bloomington, Ind.
congenital abnormalities; genetics..chromosomes; genetics..chromosome translocations; mental retardation; blood cells..leukocytes; skin

HD-00368 ROTHENBUHLER, WALTER C., Col. Agr., Ohio State Univ., Columbus, Ohio
bees; genetics; behavior; environment

HD-00468 HUMMEL, KATHERINE P., Jackson Memorial Lab., Bar Harbor, Me.
congenital abnormalities; maternal-fetal; pituitary gland; polydipsia; polyuria; heart..myocardium; age

HD-00486 CHILDS, BARTON, Sch. Med., Johns Hopkins Hosp., Baltimore, Md.
genetics..population genetics, human; genetics..sex chromosomes; family; oxidoreductases..glucose--6--phosphate dehydrogenase; oxidoreductases..phosphogluconate dehydrogenase; Drosophila

HD-00500 PENROSE, L.S., Faculty Sci., University Col., London, England
genetics..chromosomes; genetic mapping; cell culture

HD-00516 MILLER, ORLANDO J., Columbia Univ., N.Y.C.
blood cells; bone marrow; congenital abnormalities; cytology; family; genetics..sex chromosomes; radioautography; reproduction

HD-00527 UCHIDA, IRENE, Children's Hosp., Winnipeg, Manitoba, Canada
genetics..chromosomes; blood cells..erythrocytes; congenital abnormalities; blood groups; sweat; electrolytes; pancreatic cystic fibrosis; genetics..population genetics, human; ethnic groups..Eskimos; infant human

HD-00542 HIRSCHHORN, KURT, New York Univ. Med. Cr., New York, N.Y.
genetics..chromosomes; genetics..complementation; cytology; congenital abnormalities; family; immunology; blood cells..lymphocytes; transplantation..homotransplantation; lipoproteins..plasma lipoproteins; gamma globulin

HD-00549 MACINTYRE, M. NEIL, Sch. Med., Western Reserve Univ., Cleveland, Ohio
cell culture; blood cells..leukocytes; genetics.. chromosomes; radiation effects; culture media; cytology; fetus; pregnancy..placenta; infants (human); congenital abnormalities; mitogenic factor (phytohemagglutinin); phyto hemagglutinin

HD-00577 FINLEY, WAYNE H., Med. Cr. Alabama, Birmingham, Ala.
genetics..chromosomes; cytology; congenital abnormalities; fetus; children; family; cell culture; genetics.. sex determination

HD-00588 MELLMAN, WILLIAM J., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
genetics..chromosomes; genetic mapping; children; fibroblasts; cell culture; nutrients; metabolites; cell age; blood groups; blood proteins..serum proteins; aminoaciduria; mongolism

(contd)

LISTING OF GENERAL RESEARCH AREAS

GENETICS (CONTD)

HD-00622 **PUCK, THEODORE T.**, Univ. Colorado Med. Ctr., Denver, Colo.
blood cells..leukocytes; cell culture; congenital abnormalities; diagnostic tests; galactosemia; galactose-1-phosphate; genetic mapping; genetics..chromosomes; mutations; radiation effects; transferases; tritium

HD-00627 **McKAY, ROBERT J., Jr.**, Mary Fletcher Hosp., Burlington, Vermont
pregnancy..abortion; genetics..chromosomes; fetus; family.. parents; cell components..sex chromatin; blood cells.. leukocytes

HD-00635 **GERMAN, JAMES L., III**, Col. Med., Cornell Univ., N.Y.C.
bone marrow; cell culture; cell division..meiosis; congenital abnormalities; congenital heart disease; copper; deoxyribonucleic acid replication; diagnostic tests; enzymes..isoenzymes; genetics..chromosomes; genetics..heterozygotes; genetics..trisomy; hepatolenticular degeneration; hermaphroditism..pseudohermaphroditism; immunology..antigens; leukemia; lipochondrodystrophy; mucopolysaccharides; neoplasms; nutrients; radioautography

HD-00769 **HOMBURGER, FREDDY**, Bio-Research Inst. Inc., Cambridge, Mass.
aging; genetics..population genetics, animal; body composition; neoplasms

HD-00798 **McKUSICK, VICTOR A.**, Johns Hopkins Hosp., Baltimore, Md.
conferences..international meetings; genetics

HD-00809 **REED, SHELDON C.**, Col. Liberal Arts, Univ. Minnesota, Minneapolis, Minn.
genetics..population genetics, human; menstruation disorders; hirsutism; polycystic ovary; diagnostic tests; 17-ketosteroids; 17-hydroxycorticosteroids; genetics..chromosomes

HD-00828 **PORTER, IAN H.**, Albany Med. Col., Albany, N.Y.
oxidoreductases..glucose--6--phosphate dehydrogenase; polymorphism, biology; genetics..heterozygotes; genetics ..sex chromosomes; ethnic groups..Negroes; metabolic diseases inborn; blood cells..leukocytes; skin; amnion; glucose--6--phosphate dehydrogenase deficiency

HD-00995 **OPITZ, JOHN M.**, Col. Med., Univ. Wisconsin, Madison, Wis.
genetics..phenotypes; hypogonadism; genetics..sex chromosomes; amenorrhea; Turner's syndrome; polycystic ovary; cell division..meiosis; pregnancy.. missed abortion

HD-00998 **KODANI, MASUO**, Sch. Med., Univ. Missouri, Columbia, Mo.
cell culture; spermatogenesis; testis; culture media

HD-00999 **FERRIER, PIERRE E.**, Sch. Med., Univ. Washington, Seattle, Wash.
sex differentiation abnormalities; genetics..sex chromosomes; blood cells..leukocytes; fibroblasts; gonads; cell differentiation; tritium; gametogenesis

HD-01015 **DAVIDSON, RONALD G.**, Roswell Park Mem. Inst., Buffalo, N.Y.
metabolic diseases inborn; genetics..autosomes; genetics..sex chromosomes; dosage; oxidoreductases.. glucose--6--phosphate dehydrogenase; fibroblasts

HD-01016 **BIESELE, JOHN J.**, Grad. Sch., Univ. Texas, Austin, Tex.
genetics..chromosomes; deoxyribonucleic acid; ovary; oogenesis; spermatogenesis; histones; blood cells.. leukocytes; neoplastic cells; antimetabolites; antimitotic agents

HD-01020 **SUMMITT, ROBERT L.**, Col. Med., Univ. Tennessee, Memphis, Tenn.
genetics..chromosomes; genetic mapping; congenital abnormalities; mental retardation; children; adults; family; blood cells..leukocytes; bone marrow; skin; blood groups

HD-01061 **PIERRO, LOUIS J.**, Col. Agr., Univ. Connecticut, Storrs, Conn.
eye disorders; congenital abnormalities; genetic strains; histogenesis; tritium

HD-01228 **HERSHEY, ALFRED D.**, Genetics Research Unit, Cold Spring Harbor, N.Y.
viruses..bacteriophage; bacteria; deoxyribonucleic acid; molecular structure

HD-01235 **HINTON, CLAUDE W.**, Grad. Sch., Univ. Georgia, Athens, Ga.
genetics..chromosomes; mutations; cytology; cell age; cell components..cytoplasm; cell components..heterochromatin; genetics..crossing over

HD-01238 **HEXTER, WILLIAM M.**, Amherst Col., Amherst, Mass.
genetics..sex chromosomes; genetics..heterozygotes; Drosophila; genetics..recombination; genetic mapping; genetics..pseudoalleles

HD-01240 **FARNSWORTH, MARJORIE W.**, Col. Arts, Sci., State Univ. New York, Buffalo, N.Y.
genetics..genes; mutations; embryology; oxidative phosphorylation

HD-01243 **ALLEN, SALLY L.**, Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
enzymes..isoenzymes; protozoa..Tetrahymena pyriformis; esterases; phosphomonoesterases..acid phosphatase; genetic strains; conjugation; cell components..cell nucleus; phosphatases; enzymes..hybrid enzymes; serotypes

HD-01254 **FOSTER, MORRIS**, Sch. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
genetics..heterozygotes; melanin; pigments; genetics.. gene interaction

HD-01259 **FOSTER, MORRIS**, Sch. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
genetics..gene interaction; genetics..recombination; pigments; hemoglobin; esterases; blood cells..erythrocytes

HD-01312 **CENTER, ELIZABETH M.**, Sch. Med., Stanford Univ., Stanford, Cal.
congenital abnormalities; embryology; teratogenic agents; nitrogen mustards; nitrosoguanidine; mutagens; thalidomide

HD-01313 **PUNNETT, HOPE H.**, St. Christopher's Hosp. for Children, Philadelphia, Pa.
genetics..chromosomes; cell division..meiosis; cell division ..mitosis; cell culture; blood cells..leukocytes; mitogenic factor (phytohemagglutinin); infant human..newborn

HD-01331 **ZAMENHOF, STEPHEN**, Sch. Med., Univ. California, Los Angeles, Cal.
genetics..genes; deoxyribonucleic acid; bacteria..Bacillus subtilis; mutagens; transforming principle; mutations

HD-01341 **PIOUS, DONALD A.**, Sch. Med., Univ. Washington, Seattle, Wash.
genetics..recombination; cell culture; immunology.. isoantigens; transplantation rejection; mutation; fibroblasts

HD-01343 **MELNYK, JOHN**, Childrens Hosp., Los Angeles, Cal.
cell division..meiosis; mental retardation; genetics ..chromosomes; genetics..chromosome inversion; genetics..chromosome translocations; genetics.. karotypes; sex difference

HD-01487 **LINDER, DAVID**, Children's Hosp., San Francisco, Cal.
oxidoreductases..glucose--6--phosphate dehydrogenase; enzymes..isoenzymes; genetics..sex chromosomes; genetics..heterozygotes; sex difference; ethnic groups..Negroes; carcinogenesis

HD-01825 **ZAMENHOF, PATRICE J.**, Sch. Med., Univ. California, Los Angeles, Cal.
bacteria..Escherichia coli; genetic strains; mutation; genetics..chromosomes; genetics.. episomes; mutagens; viruses..bacteriophage

HD-01827 **GREER, SHELDON**, Sch. Med., Univ. Miami, Miami, Fla.
deoxyribonucleic acid; messenger ribonucleic acid; bacteria ..Bacillus subtilis; genetic coding; amino acid sequence; enzymes; auxotrophs; genetics..recombination; transformation; genetic mapping

HD-01831 **ASHTON, GEOFFREY C.**, Grad. Sch., Univ. Hawaii, Honolulu, Hawaii
polymorphism (biology); blood proteins..serum proteins; genetics..genotypes; genetics..population genetics, human; fertility; ethnic groups..Hawaiian

HE-01730 **REMPEL, W.E.**, Grad. Sch., Univ. Minnesota, St. Paul, Minn.
genetic strains; swine, miniature

HE-02566 **ABBOTT, URSULA K.**, Col. Agr., Univ. California, Davis, Cal.
hypothermia; cardiovascular system; embryology; genetic strains; genetics..phenotypes; genetics..homozygotes; feathers; skin; chickens; mutations

HE-03091 **MOTULSKY, ARNO G.**, Sch. Med., Univ. Washington, Seattle, Wash.
genetics..population genetics, human; blood groups; glucose-6-phosphate dehydrogenase deficiency; bone marrow transplantation; bone marrow diseases; congenital abnormalities; hemoglobinopathy; drugs; genetics.. chromosomes; cytology; aging; Werner's syndrome

HE-03140 **GRAHAM, JOHN B.**, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
blood coagulation

HE-03708 **STEINBERG, ARTHUR G.**, Grad. Sch., Western Reserve Univ., Cleveland, Ohio
heart diseases; survey; lipids..serum; lipids; blood groups; ethnic groups

HE-05277 **HERNDON, C. NASH**, Sch. Med., Wake Forest Col., Winston-Salem, N.C.
genetics..hybrids; atherosclerosis; diet; cholesterol; coronary occlusion and thrombosis; thiamine; dietary deficiency

HE-06267 **GORDON, HYMIE**, Sch. Med., Univ. Cape Town, Cape, South Africa
ecology, human; hypertension (systemic); geographical sites..Africa; ethnic groups..whites; ethnic groups.. Malay; ethnic groups..Bantu; ethnic groups..Cape Colored; blood groups; haptoglobin; transferrin; oxidoreductases..glucose--6--phosphate dehydrogenase

HE-07001 **FOX, MARJORIE H.**, Louisiana State Univ., Baton Rouge, La.
congenital heart disorders; environment; stress; maternal--fetal

HE-07216 **BRUELL, JAN H.**, Grad. Sch., Western Reserve Univ., Cleveland, Ohio
cholesterol; lipids..serum lipids; sex difference; genetic strains; fluorometry; hypercholesteremia; milk; diet; hematocrit

HE-08111 **REED, T. EDWARD**, Hosp. for Sick Children, Toronto, Canada
blood groups; fertility; genetics..population genetics (human); haptoglobin; mortality; polymorphism; pregnancy..abortion; survey

HE-08405 **YERMANOS, D.M.**, Col. Agr., Univ. California, Riverside, Cal.
genetics..genes; fatty acids; chemical structure; vegetable oils; diet; heart diseases; unsaturated fats

HE-08556 **SEEGERS, WINNIFRED, New York Univ. Med. Cr., N.Y.C.**
atherosclerosis; coronary diseases; enzymes; genetics; lipids; lipoproteins..serum lipoproteins

HE-09050 **FANGUY, ROY C., Texas AM Univ., College Station, Tex.**
blood groups; immunology..antigens; hematopoietic tissue transplantation; radiation effects..whole body radiation

HE-09331 **SCHLAGER, GUNTHER, Jackson Lab., Bar Harbor, Me.**
genetics..genes; genetic strains; hypertension (systemic); blood pressure; biometry

MH-02892 **REED, SHELDON C., Grad. Sch., Univ. Minnesota, Minneapolis, Minn.**
psychoses; socioeconomics; education; occupations; family; survey; socioenvironment

MH-07519 **KARLSSON, JON L., Univ. California Med. Cr., San Francisco, Cal.**
schizophrenia; family; medical records; survey; geographical sites..Europe; genetics..population genetics, human

MH-07574 **SHAW, CHARLES R., Hawthorn Cr., Northville, Mich.**
mental disorders; schizophrenia; children; enzymes..isoenzymes; genetics; fibroblasts; blood cells..erythrocytes; cooperative study

MH-08712 **BROADHURST, PETER L., Sch. Med., Univ. Birmingham, Birmingham, England**
performance; emotional reactions; alcoholism; environment

MH-10640 **BROWN, RUSSELL V., North Texas State Univ., Denton, Tex.**
alcoholism; drinking behavior; genetic strains; genetics..inbreeding; genetics..genes

NB-00684 **STEIN, KATHRYN F., Mt. Holyoke Col., South Hadley, Mass.**
bone deformities; congenital abnormalities; embryology; genetics..heterozygotes; genetics..homozygotes; germ layers; nervous system disorders

NB-00706 **METRAKOS, JULIUS D., McGill Univ., Montreal, Canada**
children; electroencephalography; epilepsy

NB-01147 **McNUTT, C. WALLACE, Med. Br., Univ. Texas, Galveston, Tex.**
survey; Friedreich's ataxia; family; amino acid; diabetes; ethnic groups..American Indians

NB-01644 **ASMUNDSON, V.S., Univ. California, Davis, Cal.**
muscular dystrophy; poultry; muscle; growth; fats

NB-02267 **YOON, CHAI H., Grad. Sch., Boston College, Chestnut Hill, Mass.**
tremor; phosphorus; brain; cholinesterases; dehydrogenases ..succinate dehydrogenase; blood proteins; deoxyribonucleic acid; transformation; nervous system disorders; muscle proteins; muscular diseases

NB-02402 **CURTIS, ROBIN L., Col. Med., Dent., Seton Hall Col., Jersey City, N.J.**
spina bifida; skeleton; nervous system..central nervous system; cleft palate

NB-02543 **ZELLWEGER, HANS, Col. Med., State Univ. Iowa, Iowa City, Iowa**
genetics..chromosomes; mongolism; family

NB-03095 **BARTO, ELIZABETH, Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.**
audiogenic seizure; neuromuscular disorders; nervous system..central nervous system; brain lesions

NB-03262 **SIDMAN, RICHARD L., Sch. Med., Harvard Univ., Boston, Mass.**
brain disorders; congenital abnormalities; mutations; paralysis; aminoxyacetic acid; chemotherapy; brain ..cerebellum; retinopathy; rhodopsin; electroretinography

NB-03841 **BARBER, AELETA N., Sch. Med., Louisiana State Univ., New Orleans, La.**
teratogenic agents; genetics..chromosomes; blindness; congenital abnormalities; genetics..hybrids

NB-04108 **SJORGREN, TORSTEN, Inst. Med. Genetics, Uppsala, Sweden**
epidemiology; genetics..population genetics, human; mental disorders; nervous system disorders; geographical sites..Sweden; senile dementia; cytology; dystonia musculorum deformans

NB-04425 **SHAW, RICHARD F., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
muscular dystrophy; epidemiology; geographical sites.. United States; enzymes; genetics..population genetics, human; statistics; color blindness; computer programming

NB-04590 **KLEIN, DAVID, Inst. de Genetique Medicale, Geneva, Switzerland**
epidemiology; retinopathy; geographical sites.. Switzerland, socioeconomics; fertility; congenital abnormalities

NB-04662 **ATKINS, LEONARD, Massachusetts Gen. Hosp., Boston, Mass.**
congenital abnormalities; nervous system disorders; deoxyribonucleic acid; tritium; mental retardation; genetics..chromosomes; cell components..sex chromatin

NB-05290 **GUTHRIE, ROBERT, Childrens Hosp., Buffalo, N.Y.**
metabolic diseases inborn; mental retardation; infant human..newborn; diagnostic tests; genetics; microbial cultures; metabolites; bacteria..Escherichia coli; bacteria..Bacillus subtilis; bioassay

NB-05598 **PORTER, IAN H., Albany Med. Col., Albany, N.Y.**
diphenylhydantoin; genetics..population genetics, human; epilepsy; age; sex difference; ethnic groups; polymorphism (biology)

OH-00187 **WALD, NIEL, Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.**
genetics..chromosomes; industrial medicine; occupational hazards; environment; mutagens; toxicology; blood cells; benzene; monitoring

RH-00035 **FETNER, ROBERT H., Georgia Inst. Technology, Atlanta, Ga.**
cell culture; cell division..mitosis; KB cells; radiation effects; x-rays

RH-00294 **SAX, KARL, Col. Arts, Sci., Univ. Georgia, Athens, Ga.**
aging; plants; cell; seeds; radiation sensitivity; radiation protection; genetics..chromosomes; x-rays

RH-00328 **GOWEN, JOHN W., Col. Vet. Med., Colorado State Univ., Fort Collins, Colo.**
radiation effects; radiation sensitivity; radiation hazards; mutations; genetics..population genetics, animal; genetics..genes; genetics..phenotypes; genetics..lethals; x-rays; radioisotopes..cobalt 60; dosage; longevity; reproduction; species; embryology; publications; criteria; genetics..chromosomes; aging; behavior; infectious diseases

HEALTH SERVICES RESEARCH

AI-05203 **STANTON, HOWARD R., Dept. Hlth., Santurce, P.R.**
parasitic diseases; disease transmission; geographical sites..Puerto Rico; public health; environment; sanitation; socioculture; behavior; longitudinal study

CD-00045 **PHILLIPS, HARRY T., Massachusetts Health Res. Inst., Boston, Mass.**
longitudinal study; patient care..post--hospitalization; chronic diseases; socioenvironment; rehabilitation; community service; ethnic groups; socioeconomics; age; hospital--community relations

CD-00086 **LEVINE, SOL, Sch. Public Hlth., Harvard Univ., Boston, Mass.**
social adjustment; heart diseases; myocardial infarct; rehabilitation; role; socioeconomics; employment; social status; interpersonal behavior; family; ethnic groups; medical services; community service; sex difference; interviews; coding; computer analysis; longitudinal study

CD-00102 **COBB, SIDNEY, Univ. Michigan, Survey Res. Cr., Ann Arbor, Mich.**
psychophysiology; stress; socioeconomics; employment; longitudinal study; hypertension (systemic); coronary disease; diabetes; hyperthyroidism; peptic ulcer; arthritis..rheumatoid arthritis; blood pressure; blood sugar; uric acid; cholesterol; protein-bound iodine; proteases..pepsinogen; survey; public health nurses

CD-00137 **LAWTON, M. POWELL, Home for Jewish Aged, Philadelphia, Pa.**
aging; cost; socioeconomics..housing; stress; family; community; social adjustment; social worker; interviews; nursing homes

CD-00148 **PARKER, ADAH D., Col. Physical Educ., Univ. Illinois, Champaign, Ill.**
nursing homes; aging; recreation; social adjustment; behavior

CH-00004 **AXELROD, S.J., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.**
malaria; socioeconomics; ecology, human; geographical sites..Latin America; statistics

CH-00022 **SPENCER, ESTHER C., California Dept. Pub. Hlth., Berkeley, Cal.**
consultation; public health; criteria

CH-00024 **WESSEN, ALBERT F., Jewish Hosp. St. Louis, St. Louis, Mo.**
administration; medical services; medical economics; nurses; role; patient care; aging; psychotherapy

CH-00028 **SOLON, JERRY A., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.**
medical services; community service; preventive medicine; medical personnel; hospitals administration; manpower; training; patient care; criteria

CH-00029 **CROOG, SYDNEY H., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.**
social organization; public health; community service; administration; socioenvironment; medical personnel; mental health personnel; motivation; employment..job satisfaction; role; interviews

CH-00034 **AXELROD, S.J., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.**
hospitals administration; social service; socioeconomics.. low income groups; aging; hospitals utilization

CH-00037 **FALK, ISIDORE S., Sch. Med., Yale Univ., New Haven, Conn.**
medical services; hospital--community relations; administration; education..medical education; hospitals personnel; hospitals patients; socioenvironment; medical economics; social organization..institutional organization; epidemiology; medical practice; hospitals utilization; medical insurance; patient care; dental health; dental insurance; public health; mental health

(contd)

LISTING OF GENERAL RESEARCH AREAS

HEALTH SERVICES RESEARCH (CONTD)

CH-00039 HESS, IRENE, Survey Res. Cr., Univ. Michigan, Ann Arbor, Mich.
mathematical models; statistics; hospitals; hospitals patients; computer programming

CH-00040 METZNER, CHARLES A., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.
group medical practice; interviews; social psychology; socioculture; attitudes

CH-00042 SHANNON, LYLE W., Col. Liberal Arts, State Univ. Iowa, Iowa City, Iowa
values; behavioral adjustment; migrants, sociological; socioenvironment..urban areas; ethnic groups..Mexican--Americans; ethnic groups..Negroes; survey; information exchange

CH-00043 DENSEN, PAUL M., New York City Hlth. Dept., New York, N.Y.
research programs; public health; epidemiology; research potential; medical services; patient care; medical economics; computer analysis

CH-00045 COLOMBOTOS, JOHN, Pub. Hlth., Adm. Med., Columbia Univ., New York, N.Y.
physicians; role; public health; medical practice; attitudes; conflict; survey

CH-00046 ROEMER, MILTON I., Sch. Pub. Hlth., Univ. California, Los Angeles, Cal.
social organization..institutional organization; hospitals; medical personnel; patient care; education..medical education; prevenitve medicine; publications..literature survey; performance

CH-00047 FALK, ISIDORE S., Sch. Med., Yale Univ., New Haven, Conn.
medical services; medical practice; physicians; geographical sites..England; geographical sites.. United States; role; medical economics

CH-00056 CARTER, HOWARD, Pinellas County Hlth. Dept., St. Petersburg, Fla.
aging; public health; medical services; survey; socioculture; socioeconomics; psychology; nursing homes

CH-00057 FURFEY, PAUL H., Sch. Social Sci., Catholic Univ. America, Washington, D.C.
deafness; medical services; preventive medicine; mental health; physician-patient relationship; medical records; medical personnel; geographical sites..Maryland

CH-00061 BUTLER, JOHN J., St. Michael Hosp., Newark, N.J.
attitudes; hospitals personnel; teaching; education.. medical education; interviews; patient care

CH-00063 MINDLIN, ROWLAND L., New York City Hlth. Dept., N.Y.C.
infants, human; children; medical services; ethnic groups; socioeconomics; attitudes; research programs; longitudinal study; survey; interviews; medical facilities planning

CH-00065 CARTWRIGHT, ANN, Inst. Community Studies, London, England
medical practice; physician--patient relationship; patient care; survey; interviews; physicians; attitudes; geographical sites..England; aging; children

CH-00066 SCITOVSKY, ANNE A., Palo Alto Med. Res. Fdn., Palo Alto, Cal.
bone fractures; breast neoplasms; coronary diseases; gastrointestional disorders; hypertension (systemic); medical services; otitis media; patient expenses; peptic ulcer; pneumonia; pregnancy..childbirth; statistics; survey

CH-00067 ERBE, WILLIAM, Iowa Urban Community Res. Cr., State Univ. Iowa, Iowa City, Iowa
medical personnel; role; community; socioenvironment ..urban areas; socioeconomics; social behavior; community service; survey

CH-00069 PAGLIN, MORTON, Portland State Col., Portland, Ore.
morbidity; mortality; performance; population dynamics (human); public health; socioeconomics

CH-00081 MILLER, GEORGE E., Col. Med., Univ. Illinois, Chicago, Ill.
orthopedics; education..medical education; performance; medical personnel; manpower; criteria

CH-00082 SEGAL, BERNARD E., Dartmouth Med. Sch., Hanover, N.H.
morbidity; attitude; socioculture; physician--patient relationship; survey; sex difference; ethnic groups; geographical sites..United States

CH-00093 CUMMINS, JAMES F., Florence Heller Grad. Sch. Advanced Studies Soc. Welfare, Brandeis Univ., Waltham, Mass.
medical facilities planning; medical practice; physicians; medical personnel; performance; patient care; criteria; interviews; attitude; role

CH-00097 MADISON, BERNICE, 45 Cleary Court, San Francisco, Cal.
geographical sites..USSR; publications..books; social service; socioeconomics; public health; mental health; rehabilitation; criminology; juvenile delinquency; alcoholism; drugs addiction; retirement; aging; family; children

CH-00102 ROEMER, MILTON I., Sch. Pub. Hlth., Univ. California, Los Angeles, Cal.
medical services; medical insurance; medical economics; criteria; attitude; physicians; hospitals; group medical practice; patient care; socioenvironment.. urban areas; socioeconomics..low income groups; migrants (sociological); handicapped children; public health; community service

CH-00103 READER, GEORGE G., Cornell Univ. Med. Col., New York, N.Y.
research programs; patient care..ambulatory patients; medical personnel; hospitals administration; physician--patient relationship; aging; social behavior; questionnaire

CH-00110 SACKS, SEYMOUR, Syracuse Univ., Syracuse, N.Y.
public health; community service; medical economics; socioeconomics; survey; geographical sites..New York

CH-00115 ANDERSON, ODIN W., Grad. Sch., Univ. Chicago, Chicago, Ill.
socioeconomics..low income groups; criteria; cost; community; politics; family; social service; medical economics

CH-00116 CHAPIN, F. STUART, Jr., Univ. North Carolina, Chapel Hill, N.C.
socioenvironment..urban areas; medical facilities planning; land planning and development; mathematical models; survey; family

CH-00120 SEIPP, CONRAD, Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
mental retardation; hospitals planning; community; interviews; public opinion; attitude; survey; travel; questionnaire; community service

CH-00121 HOLDER, LEE, Natl. Comm. on Community Hlth. Services, Bethesda, Md.
community service; medical facilities planning; survey; attitude; perception; motivation; questionnaire; travel; geographical sites..Oregon

CH-00122 PODELL, LAWRENCE, Dept. Welfare, New York, N.Y.
community service; public health; interviews; socioeconomics..low income groups; socioeconomics.. housing; attitude; social psychology; computer analysis; travel; geographical sites..New York; survey

CH-00128 LOEWENSTEIN, REGINA, Sch. Pub. Hlth., Admin. Med., Columbia Univ., New York, N.Y.
medical economics; patient expenses; interviews; socioenvironment..urban areas; hospitals; physicians; dental personnel; medical records; computer analysis

CH-00148 SANAZARO, PAUL J., Assn. American Med. Colleges, Evanston, Ill.
physicians; performance; criteria; education.. medical education; psychological tests; longitudinal study; instrumentation--methodology

CH-00155 FUCHS, VICTOR R., 9 Talley Road, Roslyn, N.Y.
medical services; medical economics; geographical sites..Europe

CH-00158 WHITE, KERR L., Sch. Hyg., Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
research programs; medical practice; patient care; community service; medical records; morbidity; hospitals utilization; longitudinal study; disease classification

CH-00187 MARTIN, LEONARD W., Col. Business Admin., Loyola Univ., Chicago, Ill.
medical economics; cost; hospitals; patient expenses; interviews; hospitals administration

CH-00201 DAVIS, MORRIS, Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
public health; fluoridation; politics; public opinion; decision--making; socioenvironment..urban areas

DH-00014 QUARANTELLI, ENRICO L., Ohio State Univ., Columbus, Ohio
education..dental education; longitudinal study; socioculture; questionnaire; personality

DH-00017 DEAN, BURTON V., Case Inst. Tech., Cleveland, Ohio
medical services; dental health; dental insurance

DH-00021 MORRIS, ROBERT, Sch. Soc. Welfare, Brandeis Univ., Waltham, Mass.
medical services; dental health; public health; socioeconomics..wages; social psychology; family; children

DH-00033 AVNET, HELEN H., Group Health Insurance, Inc., N.Y.C.
dental health; medical services; dental insurance; survey; medical records; statistics; longitudinal study

DH-00034 ANDERSON, ODIN W., Grad. Sch., Univ Chicago, Chicago, Ill.
dental health; medical economics; medical services; socioeconomics; survey; interviews; family; dental personnel; questionnaire; computer analysis; attitudes

DH-00041 CUSSLER, MARGARET T., Col. Arts, Sci., Univ. Maryland, College Park, Md.
role; perception; dental personnel..dental assistants; occupations; social psychology; interpersonal behavior; interviews; consultation; travel; computer analysis

DH-00042 MYRICK, RICHARD, George Washington Univ., Washington, D.C.
education..dental education; education..schools; social psychology; survey

DH-00044 DOUGLAS, BRUCE L., Col. Dent., Univ. Illinois, Chicago, Ill.
fluoridation; water supply; dental health; socioeconomics; dental personnel; survey; interviews; dentistry

DH-00050 COLLARD, EARL W., Sch. Dent., Loma Linda Univ., Loma Linda, Cal.
education..dental education; education..audio--visual aids; programmed learning; memory--retention; psychological tests; longitudinal study

EF-00584 BELCHER, JOHN C., Col. Arts, Sci., Univ. Georgia, Athens, Ga.
socioenvironment..rural areas; industry; socioculture; social adjustment; attitudes; social change; sanitation; geographical sites..Georgia

EF-00654 SCHOOLER, KERMIT K., Brandeis Univ., Waltham, Mass.
aging; socioeconomics..housing; land planning and development; socioenvironment..urban areas; medical facilities planning; social adjustment; interviews; travel; computer analysis

EF-00674 STRONG, ANN L., Sch. Law., University of Pennsylvania, Philadelphia, Pa.
socioenvironment..urban areas; geographical sites..Europe; geographical sites..Puerto Rico; politics; public health; water supply; sewage treatment

EF-00683 GUEST, LESTER, Col. Liberal Arts, Pennsylvania State Univ., University Park, Pa.
public health; sanitation; food sanitation; attitude; administrative personnel; public opinion

ES-00020 BARNOWE, THEODORE J., Col. Business Admin., Univ. Washington, Seattle, Wash.
research programs; public health; sanitation; environment; administration; survey; interviews; leadership; travel; cooperative study

GM-09475 MENZEL, HERBERT, Columbia Univ., New York, N.Y.
physicians; communication; survey; education..medical education

GM-09981 GUTTENTAG, OTTO E., San Francisco Med. Cr., San Francisco, Cal.
questionnaire; physicians; education..medical education; orientation, psychological; patient care

GM-10629 KENDALL, PATRICIA L., Bureau of Applied Social Res. N.Y.C.
education..medical education; experience; geographical sites..United States; hospitals personnel; leadership; medical services; patient care; physicians; survey

GM-11165 GORDON, GERALD, Grad. Sch. Business, Univ. Chicago, Chicago, Ill.
questionnaire; personnel administration; research programs; respiratory diseases; interpersonal behavior; attitudes; authority; criteria; research potential; scientists; social organization..institutional organization

GM-12367 ELLING, RAY H., Univ. Pittsburgh, Pittsburgh, Pa.
public health; questionnaire; occupations; employment; training level; attitudes; survey

HD-00772 VALADIAN, ISABELLE, Harvard Sch. Public Health, Boston, Mass.
child development; prediction; body build; social behavior; diet; hospitals utilization; aging; adults; infant human..newborn; longitudinal study

HD-01134 VALADIAN, ISABELLE, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
social adjustment; adults; longitudinal study; experience; socioenvironment; child development; social behavior; interviews; social worker; travel; statistics

HE-09226 LEVINE, SOL, Harvard Sch. Pub. Health, Boston, Mass.
coronary disease; stress; psychometrics; survey; psychophysiology; questionnaire; anxiety; longitudinal study; socioenvironment

HM-00053 THOMPSON, JOHN D., Sch. Med., Yale Univ., New Haven, Conn.
hospitals utilization; computer programming; prediction

HM-00074 WILLIAMS, T. FRANKLIN, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
diabetes; hospitals outpatients; education; therapy; physician-patient relationship; preventive medicine; information exchange

HM-00123 GROSS, LLEWELLYN Z., Grad. Sch., State Univ. New York, Albany, N.Y.
hospitals personnel; employment..job satisfaction; hospitals administration; social organization.., institutional organization; attitude; morale; role; social status; imagery; ethnic groups..race; hospitals analysis; questionnaire; computer analysis

HM-00188 MANN, FLOYD C., Univ. Michigan, Ann Arbor, Mich.
hospitals administration; hospitals personnel; hospitals patients; patient care; social psychology; questionnaire; interviews; statistics; survey

HM-00190 INGBAR, MARY L., Grad. Sch., Harvard Univ., Cambridge, Mass.
medical economics; medical services; hospitals administration; cooperative study; survey
criteria; public health

HM-00194 DROSSNESS, DANIEL L., California State Dept. Hlth., Berkeley, Cal.
hospitals utilization; information exchange;

HM-00197 HANSEN, GARY, Mt. Angel Col., Mt. Angel, Oregon
aging; education..curriculum; social worker; nursing homes; social psychology

HM-00198 DONALDSON, BEATRICE, Univ. Wisconsin, Madison, Wis.
dietetics; patient care; manpower; training; education.., paramedical education; performance; statistics

HM-00208 SMITH, LESTER E., Kansas Health Facilities Info. Services, Inc., Topeka, Kans.
hospitals planning; medical facilities planning; community; information exchange; geographical sites.., United States; medical economics

HM-00216 BALINTFY, JOSEPH L., Tulane Univ., New Orleans, La.
hospitals..food service; nutrition; cost; computer analysis

HM-00224 DAVIS, LOUIS E., Col. Eng., Univ. California, Berkeley, Cal.
hospitals admissions; patient care; medical services; hospitals personnel; hospitals bed capacity; hospitals administration; hospital-community relations; medical economics; longitudinal study; mathematical models

HM-00244 PENDALL, RUDOLF J., Hosp. Council Maryland, Inc., Baltimore, Md.
hospitals administration; hospitals personnel; socio-economics..wages; manpower; conferences..workshop; geographical sites..Maryland

HM-00278 RICE, DOYLE K., Washington Univ., St. Louis, Mo.
hospitals patients; patient care; nursing homes; chronic disease; rehabilitation; statistics; survey; hospitals administration; hospitals personnel

HM-00279 FLAGLE, CHARLES D., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
research programs; community service; biomedical engineering; hospitals administration; medical records; documentation systems; computer diagnosis; patient care

HM-00298 ANDERSON, ODIN W., Grad. Sch., Univ. Chicago, Chicago, Ill.
medical services; medical economics; survey; cooperative study; travel; geographical sites..United States; geographical sites..Europe

HM-00302 ROSENTHAL, GERALD D., Sch. Public Hlth., Harvard Univ., Boston, Mass.
medical facilities planning; medical economics; population dynamics, human; socioeconomics; computer analysis; survey

HM-00322 PETERSON, OSLER L., Sch. Med., Harvard Univ., Boston, Mass.
computer diagnosis; computer programming; education.., medical education; hospitals; hysterectomy; medical records; medical practice; ovariectomy; physicians; surgery; therapy evaluation

HM-00326 BAKER, ROY E., Grad. Sch., Cornell Univ., Ithaca, N.Y.
hospitals administration; hospitals analysis; medical economics; cost; travel

HM-00348 McCORKLE, LOIS P., University Hospitals, Cleveland, Ohio
hospitals analysis; hospitals utilization; medical economics; medical records; statistics; mathematical models

HM-00349 SHEATSLEY, PAUL B., Natl. Opinion Res. Cr., Chicago, Ill.
hospitals utilization; attitude; interviews; hospitals patients; physicians; medical economics; hospitals release; hospitals admissions; consultation; computer analysis

HM-00354 GOERKE, LENOR S., Sch. Pub. Hlth., Univ. California, Los Angeles, Cal.
hospitals analysis; medical practice; patient care; medical economics; education..medical education; medical records; diagnostic tests; therapy; criteria; publications..manual; physicians

HM-00355 HILL, LAWRENCE A., Grad. Sch. Business Admin., Univ. Michigan, Ann Arbor, Mich.
medical economics; cost; education..medical education; patient care; hospitals analysis; hospitals administration; community service; hospital--community relations; geographical sites..United States

HM-00378 MULLER, CHARLOTTE F., Fac. Med., Columbia Univ., New York, N.Y.
drugs; criteria; hospitals; survey; geographical sites.., United States; patient care..ambulatory patients; cost

HM-00415 WATERSTRAAT, MARY J., American Assn. Med. Record Librarians, Chicago, Ill.
hospitals administration; medical records; statistics; documentation systems; information exchange; publications..dictionaries; classification; patient care; medical economics; conferences.., workshop; consultation

HM-00420 BURNETTE, CHARLES H., Grad. Sch. Fine Arts, Univ. Pennsylvania, Philadelphia, Pa.
information exchange; documentation systems; hospitals planning; publications..literature survey; communication

HM-00430 FERRELL, EDWARD S., Sr., Univ. Alabama Med. Cr., Birmingham, Ala.
hospitals administration; hospitals personnel; hospitals..evaluation center; mathematical models; computer analysis; employment..job satisfaction

HM-00431 VALINSKY, DAVID, Maimonides Hosp., Brooklyn, N.Y.
hospitals utilization; medical economics; hospitals analysis; hospitals planning; consultation; mathematical models; community service; communication; hospitals administration

HM-00437 ROTH, JULIUS A., Grad. Sch., Boston Univ., Boston, Mass.
hospitals..emergency rooms; community service; social psychology; interviews; hospitals personnel; hospitals patients; social status; communication; patient care; hospitals analysis; hospital--community relations

HM-00443 PERKINS, RALPH L., Hosp. Univ. Pennsylvania, Philadelphia, Pa.
hospitals administration; medical economics; patient expenses; communication; medical records; hospitals personnel; patient care; hospitals planning

HEALTH SERVICES RESEARCH (CONTD)

NU-00067 **FORD, AMASA B., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
patient care..post-hospitalization; chronic disease; public health nurses; medical personnel; cooperative study; longitudinal study; aging

NU-00092 **WILSON, DOROTHY, Community Nursing Services, Philadelphia, Pa.**
public health nurses; community service; administration; attitudes; survey; manpower; social organization, institutional organization

OH-00091 **MORRIS, WILFORD H.M., Purdue Univ., Lafayette, Ind.**
preventive medicine; heart diseases; farmers; rehabilitation; social psychology; longitudinal study; criteria; stress

HEART PROGRAM-PROJECT COMMITTEE

HE-05435 **PRUITT, RAYMOND D., Col. Med., Baylor Univ., Houston, Tex.**
research programs; cardiovascular diseases; atherosclerosis; cardioactive agents; heart surgery; viruses; rehabilitation; pharmacology; lipids; steroids

HE-05741 **BRADLEY, STANLEY E., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
research programs; cardiovascular diseases; physiology; biochemistry; therapy; longitudinal study

HE-06285 **COMROE, JULIUS H., Jr., Univ. California Med. Cr., San Francisco, Cal.**
research programs; cardiovascular system; kidney function; pulmonary heart disease; neurophysiology; membrane permeability and transport; lipids; endocrinology; psychology; thoracic surgery; anesthesia; children; neurosurgery; muscle contraction; lung; surface active agents; infant human.. newborn; respiratory system

HE-06286 **WOLF, STEWART G., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.**
research programs; nervous system; cardiovascular disorders; neurophysiology; psychiatry; coronary disorders; hypertension (systemic) cerebrovascular disorders; epidemiology

HE-06296 **CHAPMAN, CARLETON B., Univ. Texas Southwestern Med. Sch., Dallas, Texas**
blood circulation dynamics; pulmonary circulation; exercise; oxygen consumption; heart intracardiac volume; capillaries; pulmonary heart disease; therapy; diagnostic tests; environment; heart ventricles

HE-06302 **JANEWAY, CHARLES A., Protein Fdn., Cambridge, Mass.**
research programs; blood cells; blood proteins; biochemistry; physiology; immunology..antibodies; blood preservation; therapy; bone marrow preservation; hormones; chromatography

HE-06304 **PRITCHARD, WALTER H., Western Reserve Univ., Cleveland, Ohio**
adrenal glands; arteries..coronary arteries; atherosclerosis; blood flow; blood vessels; heart diseases; hypertension, systemic; kidney function; lipids; research programs; vasoactive agents..vasopressors; water-electrolyte balance

HE-06307 **FOWLER, NOBLE O., Col. Med., Univ. Cincinnati, Cincinnati, Ohio**
blood circulation dynamics; cardiovascular diseases; research programs

HE-06308 **HICKAM, JOHN B., Sch. Med., Indiana Univ. Fdn., Bloomington, Ind.**
research programs; cardiovascular diseases; diagnostic tests; therapy; congenital heart disease; rheumatic heart diseases; arteriosclerosis; hypertension (systemic); pulmonary heart disease

HE-06311 **GERBODE, FRANK, Inst. Med. Sci., San Francisco, Cal.**
acidosis; cardiovascular diseases; extracorporeal circulation; heart surgery; heart valves..aortic valve; heart valves prosthesis; hypothermia; instrumentation; plastics; research programs

HE-06312 **HANLON, C. ROLLINS, Sch. Med., St. Louis Univ., St. Louis, Mo.**
circulation dynamics; nerves..innervation; nerves.. denervation; heart transplantation; heart surgery; heart disorders; hyperthermia; heart..myocardium; catecholamines; heart conduction system; cardioactive agents; ischemia; tourniquets; oxygen tension; paralysis; sympatholytic agents; heart failure
research programs; cardiovascular system; stress; blood

HE-06313 **WINTERS, WILLIAM L., Jr., Sch. Med., Temple Univ., Philadelphia, Pa.**
cardiovascular diseases; research programs

HE-06314 **HOWARD, ROBERT B., Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn.**
research programs; cardiovascular diseases; immunochemistry; rheumatic diseases; lipochondrodystrophy; congenital heart disease; exercise; physiology; pulmonary hypertension; hypothermia; epidemiology; coronary diseases; infant human; kidney disorders; longitudinal study; heart surgery; heart valves..mitral valve; antihypertensive agents; angiocardiography; electrocardiography; vectorcardiography

HE-06315 **WEXLER, BERNARD C., Jewish Hosp., Cincinnati, Ohio**
research programs; cardiovascular disorders; arteriosclerosis; hypertension, systemic; adrenal glands; steroids; transplantation immunology; liver function; myocardial infarct

HE-06316 **ZOLL, PAUL M., Harvard Univ. Med. Sch., Boston, Mass.**
research programs; aging; arteriosclerosis; cardiovascular system; arrhythmia, cardiac; psychiatry; pathology; medical practice; blood coagulation..fibrinolysis; thrombosis; hemorrhage; endocrinology; heart block.. Stokes--Adams disease

HE-06336 **BAIRD, DAVID W.E., Sch. Med., Univ. Oregon, Portland, Ore.**
research programs; cardiovascular diseases; heart valves prosthesis; diagnostic tests; heart surgery; epidemiology; congenital heart disease; psychology; pulmonary function; blood; viscosity; regeneration

HE-06349 **THOMAS, JOHN, Meharry Med. Col., Nashville, Tenn.**
research programs; cardiovascular diseases; geographical sites..Tennessee; myocardial infarct; ethnic groups.. Negroes; occupations; sodium chloride; obesity; hypertension (systemic); diet; heart failure..congestive heart failure; arteriosclerosis; cholesterol; cerebrovascular disorders

HE-06350 **BRINKHOUS, KENNETH M., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
research programs; hemorrhage; thrombosis; blood coagulation; genetics; hemorrhagic disease

HE-06352 **KAY, CALVIN F., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
research programs; cardiovascular diseases; heart.. myocardium; heart valves prosthesis; heart surgery; heart catheterization; heart..artificial heart; heart valves.. mitral valve; atherosclerosis; radiolabeled iodine; radiolabeled carbon; actin; myosin; cardioactive agents; kidney..juxtaglomerular apparatus; hypertension (systemic)

HE-06353 **LYONS, CHAMP, Univ. Alabama Med. Cr., Birmingham, Ala.**
cardiovascular diseases; cardiovascular surgery; diagnostic tests; longitudinal study; monitoring; research programs

HE-06368 **LIKOFF, WILLIAM, Hahnemann Med. Col. and Hosp., Philadelphia, Pa.**
cardiovascular system; research programs

HE-06370 **DAMMIN, GUSTAVE J., Pater Bent Brigham Hosp., Boston, Mass.**
cardiovascular diseases; kidney disorders; transplantation ..homotransplantation; transplantation..autotransplantation; radiation effects; 6-mercaptopurine; immunology..antigens; pulmonary hypertension; pulmonary arterial occlusions; research programs; spleen tissue (cells) transplantation; liver tissue (cells) transplantation; skin transplantation; amino acid; polypeptides; kidney transplantation; genetics ..chromosomes; transplantation immunology

HE-06371 **KEZDI, PAUL, Northwestern Univ., Chicago, Ill.**
blood circulation dynamics; cardiovascular system; hypertension (systemic); coronary diseases; valvular heart diseases; heart conduction system; pressoreceptors; blood flow; arteries..coronary arteries; heart surgery; heart valves..mitral valve; thermal dilution technique; heart function; blood vessels shunts; ultrasonics; psychology; nervous system; research programs

HE-06374 **ERSLEV, ALLAN J., Cardeza Fdn., Philadelphia, Pa.**
research programs; hematology; blood coagulation..fibrinogen; blood coagulation..anticoagulants; hemostasis; phospholipids; phosphatidyl serine; phosphatidyl ethanolamine; hemoglobinopathies; leukemia; blood coagulation disorders.. hemophilia; hemorrhagic disorders; hematopoiesis.. erythropoiesis; bone marrow transplantation; bone marrow preservation; radiation effects; radiation protection drugs

HE-06376 **HELLEMS, HARPER K., Seton Hall Col. Med., Jersey City, N.J.**
cardiovascular diseases; kidney disorders; lung disease; research programs

HE-06664 **BAUER, WALTER, Massachusetts Gen. Hosp., Boston, Mass.**
aging; albinism; arteriosclerosis; berylliosis; blood flow; calcium; cardiovascular diseases; catecholamines; congenital heart disease; diagnostic tests; epinephrine; heart catheterization; heart contraction; heart surgery; heart valves; hypertension (systemic); hypothermia; kidney disorders; kidney function; lipoproteins; longitudinal study; 3-methoxy-4-hydroxymandelic acid; normetanephrine; pulmonary emphysema; pulmonary function; research programs; rheumatic fever; surgery.. postoperative; training; transferases..catechol-O-methyl transferase; transplantation; valvular heart diseases

HE-06769 **BURCH, GEORGE E., Sch. Med., Tulane Univ., New Orleans, La.**
acromegaly; aging; cardiovascular system; climate.. tropical climate; ethnic groups..Negroes; ethnic groups.. whites; geographical sites..Africa; geographical sites.. United States; heart enlargement; myocardosis; research programs

HE-06835 **PAGE, IRVINE H., Cleveland Clinic Fdn., Cleveland, Ohio**
polymerization; blood coagulation..cryofibrinogen;

cardiovascular diseases; angiotensin; adrenoglomerulotropin; research programs; immunology..antigens; molecular structure; chemical structure; amino acid; kidney transplantation; nephrotoxins; renal hypertension; lipoproteins; nervous system..sympathetic nervous system; vasoactive agents..vasopressors; proteases.. renin; muscles..smooth muscle; muscle contraction; tryptamine; phthalazine; cardioactive agents; synthesis; prediction; blood coagulation..fibrin; thromboembolism

HE-06936 **TASHJIAN, ROBERT J., Animal Med. Cr., New York, N.Y.**
veterinary medicine; cardiovascular diseases; pulmonary heart disease; screening; therapy evaluation; research programs; cooperative study; documentation systems; information exchange

HE-06945 **GANTT, W. HORSLEY, Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
psychology; cardiovascular system; conditioning; neuroses; research programs; nervous system..central nervous system; kidney function; drugs; behavior

HE-07005 **ELIEL, LEONARD P., Oklahoma Med. Res. Inst., Oklahoma City, Okla.**
research programs; cardiovascular disorders; atherosclerosis; lipases; lipemia; lipids; lipoproteins; metabolic disorders; endocrine glands; carbohydrates metabolism disorders; diabetes

HE-07057 **EARLE, DAVID P., Sch. Med., Northwestern Univ., Chicago, Ill.**
kidney disorders; nephritis; nephrotic syndrome; kidney.. renal tubular transport; blood cells..erythrocytes; immunology; kidney; streptococcal infections

HE-07155 **THOMAS, WILBUR A. Albany Med. Col., New York, N.Y.**
arteriosclerosis; research programs; thrombosis; diet; infarction; hematology

HE-07197 **JELLIFFE, ROGER W., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
atherosclerosis; coronary diseases; atheroma; lipids; calcium; arteries; injury; endarteritis proliferans; cholestanol; desmosterol; cardiac glycerides; chemical structure; research programs

HE-07266 **HAMLIN, JAMES T., III, Med. Col. Georgia, Augusta, Ga.**
angiotensin; arteriosclerosis; biochemistry; blood circulation dynamics; cardiovascular diseases; extracorporeal circulation..cardiac bypass; genetics; heart failure..congestive heart failure; infants, human; kidney circulation; pathology; physiology; research programs; respiratory diseases

HE-07289 **STETSON, CHANDLER, New York Univ. Med. Cr., N.Y.C.**
research programs; capillaries; homeostasis; medical personnel; laboratory facilities; animal facilities; endothelium; muscle..smooth muscle; blood flow; membrane permeability; inflammation; cell components.. lysosome; injury; shock

HE-07293 **RUSHMER, ROBERT F., Sch. Med., Univ. Washington, Seattle, Wash.**
instrumentation centers; cardiovascular system; cardiovascular diseases; training; research programs

HE-07297 **VALLEE, BERT L., Sch. Med., Harvard Univ., Boston, Mass.**
molecular biology; metal chelates; ligands; molecules.. macromolecules; hormones; viruses; proteins; ribonucleic acid; oxidoreductases; proteases..carboxypeptidase A; chemical structure; metal; research programs

HE-07299 **WILKINS, ROBERT W., Sch. Med., Boston Univ., Boston, Mass.**
hypertension (systemic); atherosclerosis; heart failure.. congestive heart failure; longitudinal study; cardiovascular diseases; hypoxia; anaerobiosis; research programs

HE-07308 **GOLDBLATT, HARRY, Mt. Sinai Hosp.,Cleveland, Cleveland, Ohio**
aging; angiotensin; atherosclerosis; biological compounds preparation; blood pressure; enzymes inhibitors..antirenin; hypertension (systemic); immunology; kidney circulation; kidney function; neurology; proteases..renin; pyelonephritis; renal hypertension; research programs; salts

HE-07563 **McINTOSH, HENRY D., Duke Med. Cr., Durham, N.C.**
blood circulation dynamics; cardiovascular diseases; cardiovascular system; electrophysiology; heart conduction system; stress

HE-07604 **TALBOTT, G. DOUGLAS, Cox Coronary Heart Inst., Dayton, Ohio**
research programs; monitoring; coronary diseases; computer simulation; computer diagnosis; cardiovascular system; criteria; therapy evaluation; biomathematics; oxygen inhalation therapy; analgesics; digitalis; stress; implants; blood pressure; body temperature; respiration; coding; instrumentation--methodology

HE-07605 **LEV, MAURICE, Hektoen Inst. Med. Res., Chicago, Ill.**
research programs; training; congenital heart disease; electron microscopy; embryology; histochemistry; heart enlargement; pathology

HE-07762 **PETERSON, LYSLE H., Grad. Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
cardiovascular system; blood circulation dynamics; nervous system; endocrine glands; kidney function; body water; electrolytes; hypertension (systemic); computer analysis; pressoreceptors; blood vessels vasomotion; research programs; blood vessels models; biomathematics

HE-07896 **SALTZMAN, HERBERT A., Duke Univ. Med. Cr., Durham, N.C.**
research programs; atmospheric pressure; oxygen inhalation therapy; shock; cerebrovascular disorders; coronary diseases; heart surgery; carbon monoxide; barbiturates; poisoning

HE-07898 **COWLEY, R. ADAMS, Sch. Med., Univ. Maryland, Baltimore, Md.**
shock; oxygen inhalation therapy..hyperbaric oxygen therapy; glycolysis; respiratory enzymes; catecholamines; adrenal cortex hormones; toxemias (nonspecific); vascular disorders; heart surgery; pulmonary ventilation; heart function; blood circulation dynamics; blood coagulation; kidney function; immunology; anesthetics; research programs

HE-07999 **WILSON, JOHN L., American Univ. of Beirut, Beirut, Lebanon**
geographical sites..Middle East; geographical sites.. Lebanon; cardiovascular diseases; rheumatic heart diseases; valvular heart diseases..mitral stenosis; pulmonary function; congenital heart disease; myocardial infarct; heart failure..congestive heart failure; intestinal absorption; cyanosis; hematocrit; aging; stress; extracorporeal circulation..heart-lung bypass; acidosis; hypoxia; pulmonary circulation; hypothermia; heart..myocardium; anaphylaxis; heart transplantation; lung transplantation; research programs

HE-08195 **NEWMAN, ELLIOT V., Med. Cr., Vanderbilt Univ., Nashville, Tenn.**
diagnostic tests; therapy; research programs; cardiovascular diseases; extracorporeal circulation; genetics; cardiovascular surgery

HE-08203 **HUME, DAVID M., Med. Col. Virginia, Richmond, Va.**
kidney transplantation; transplantation..homotransplantation; 6-mercaptopurine; radiation effects..whole body radiation; chemotherapy; transplantation immunology

HE-08214 **LUNDBERG, WALTER O., Grad. Sch., Univ. Minnesota, Minneapolis, Minn.**
blood cells..thrombocytes; blood coagulation; cardiovascular diseases; diet; fatty acids; food processing; hormones; infants, human; instrumentation-methodology; laboratory facilities; lipids; microorganisms; oxidation; peroxides; polyenes; radiation effects; radiolabeled carbon; research programs; sulfur amino acids; synthesis; tocopherol

HE-08512 **SHOEMAKER, WILLIAM C., Hektoen Inst., Chicago, Ill.**
atherosclerosis; blood circulation dynamics; blood flow; blood volume; bone; dextran; epinephrine; fatty acids; hemorrhagic shock; implants; liver; microcirculation; neurohormones; norepinephrine; perfusion; radiolabeled chromium; research programs; trauma

HE-08682 **RANDALL, WALTER C., Stritch Sch. Med., Chicago, Ill.**
blood flow; brain..cerebral cortex; brain..hypothalamus; brain..thalamus; cardiovascular system; electrostimulus; endothelium permeability; heart.. myocardium; heart contraction; homeostasis; instrumentation; nerves degeneration; nerve impulse transmission; nervous system.. sympathetic nerves; perfusion; norepinephrine; research programs; spinal reflex; thermoregulation

HE-08736 **LUCKEY, E. HUGH, Cornell Univ. Med. Col., New York, N.Y.**
cardiorenal disorders; amino acid; uremia; phenylacetylglutamine; radiolabeled carbon; phenylalanine; research programs; kidney transplantation; transplantation..homotransplantation; transplantation immunology

HE-08805 **KAY, CALVIN F., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
research programs; cardiovascular diseases; quinidine; functional groups; myosin; cardioactive agents; binding; tritium; electrocardiography; computer analysis; nerve impulse transmission; lipids; lipases..lipoprotein lipase; blood circulation dynamics; oxygen consumption; enzymes; heart function; blood coagulation..plasmin

HE-08806 **BERNHARD, WILLIAM F., Children's Hosp. Med. Cr., Boston, Mass.**
laboratory facilities; children; oxygen inhalation therapy..hyperbaric oxygen therapy; cardiovascular diseases

HE-08886 **LYNCH, PETER R., Temple Univ. Sch. Med., Hosp., Philadelphia, Pa.**
research programs; blood circulation dynamics; blood volume; heart functions; cardiovascular disease; contrast media; arteries..aorta; arteries..coronary arteries; aorta coarctation; blood cells..erythrocytes; arrhythmia, cardiac; cerebrovascular disorders; cerebroarterial occlusions extracranial; brain ischemia and hypoxia; brain edema; radiation effects; instrumentation-methodology; diagnostic tests; primates..monkeys; cinefluorography; ballistocardiography; image intensifier fluoroscopy; television microscopy; cineradiography; visual perception

HE-08932 **COHN, JEROME E., Univ. Kentucky Med. Cr., Lexington, Ky.**
research programs; lung disease; diagnostic tests; age; sex difference; socioenvironment; smoking; exercise; pulmonary circulation; pulmonary airway resistance; pulmonary heart disease; computer analysis; virus diseases; secretory mechanisms; lung; chronic disease

HE-08938 **DAMANN, J. FRANCIS, Jr., Univ. Virginia Med. Cr., Charlottesville, Va.**
research programs; heart surgery; cardiotomy; surgery.. postoperative; patient care; preventive medicine; heart function; pulmonary function; blood circulation dynamics; diagnostic tests; instrumentation--methodology;

HEART PROGRAM-PROJECT COMMITTEE (CONTD)

HE-08974 STRONG, JACK P., Sch. Med., Louisiana State Univ., New Orleans, La.
atherosclerosis; epidemiology; autopsy; ethnic groups.. race; sex difference; environment; diet; fats; proteins; primates..baboons; chromatography; fractionation; geographical sites; cholesterol

HE-09011 KELLNER, AARON, New York Blood Ctr., N.Y.C.
research programs; blood banks; genetic mapping; serotypes; blood disorders; blood preservation; globulins; viruses..hepatitis viruses; blood coagulation.. fibrinolysis; blood cells..thrombocytes; plasmapheresis; shock; histocompatibility; pituitary hormones; hemagglutination; chemical structure

HE-09178 CREECH, OSCAR, Jr., Sch. Med., Tulane Univ., New Orleans, La.
research programs; kidney transplantation; transplantation rejection; tissue preservation; steroids; surgery..postoperative; kidney function; hypothermia; perfusion; ischemia; species; computer analysis; immunology..antibodies; immune sera; blood cells.. lymphocytes; oxidoreductases; typing sera; immunological tests; endothelium; water-electrolyte balance; blood proteins; radiolabeled chromium; parasitic diseases; primates

HE-09423 REEVES, T. JOSEPH, Med. Col. Alabama, Birmingham, Ala.
research programs; computer; computer diagnosis; cardiovascular diseases; cardiovascular system; heart..myocardium; blood flow; shock; myocardial ischemia and hypoxia; exercise; heart function; cardiovascular surgery; biomathematics; pulse pressure waves; cardioactive agents; diagnostic tests

HE-09694 ATTINGER, ERNST O., Presbyterian Hosp., Philadelphia, Pa.
research programs; cardiovascular system; respiratory system; blood flow; blood pressure; blood flow impedance; biological models; computer simulation; viscoelasticity; heart function; pulmonary function; nervous system..vagus nerve; biomathematics; birefringence..streaming birefringence; pulmonary airway resistance; pulmonary circulation; pulmonary ventilation

HE-09814 FRANCIS, THOMAS, Jr., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.
research programs; heart diseases; diabetes; thyroid gland disorders; rheumatic diseases; respiratory diseases; blood circulation dynamics; epidemiology; genetics; computer

HE-09884 WARREN, JAMES V., Col. Med., Ohio State Univ., Columbus, Ohio
research programs; biology; heart..myocardium; starvation; exercise; heart enlargement..ventricular hypertrophy; endotoxins; myocardial ischemia and hypoxia; adenosine triphosphate; catecholamines; lipase; ion exchange and transport; cell components..mitochondria; electrocardiography; computer analysis; heart sounds; heart function; heart intracardiac volume; heart disorders; digitalis; sympatholytic agents; blood circulation dynamics; veterinary medicine

HE-10098 STARE, FREDRICK J., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
research programs; cardiovascular system; nutrition; dietary deficiency; pyridoxine; lipids; obesity; genetics; psychophysics; infant animals..newborn; aging; genetic strains; stress; insulin; tissue culture; sex difference; feeding behavior; body build; heart function; kwashiorkor; atherosclerosis; arrhythmia, cardiac..ventricular fibrillation; coronary disorders; cardiovascular disorders; primates..monkeys

HEART TRAINING COMMITTEE

HE-07280 GREISMAN, SHELDON E., Sch. Med., Univ. Maryland, Baltimore, Maryland
endotoxins; infectious diseases; immunity; fever; injections; venous infusions

HE-07290 WHEREAT, ARTHUR F., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
arteries..aorta; atherosclerosis; oxygen consumption; fatty acids; chromatography; enzymes; endocrine glands; lipids; enzymes substrate

HEMATOLOGY

AI-02520 JOHNSON, CLARENCE A., Col. Med., Univ. Illinois, Chicago, Ill.
viruses; hemagglutination inhibition; glycoproteins; chemical structure--biological activity; blood cells.. erythrocytes

AI-03451 WILSON, HENRY E., Ohio State Univ. Hosp., Columbus, Ohio
immunology..leukocytes antibodies; immunology.. leukocytes antigens; complement--fixation tests; cell components

AI-04408 CINTRON-RIVERA, A.A., Sch. Med., Univ. Puerto Rico, San Juan, P.R.
schistosomiasis; thrombocytopenia; blood cells..thrombocytes; megakaryocytes; splenomegaly; immunology..autoantibodies; trematodes..schistosoma

AI-05150 JANNACH, JOSEPH R., Jackson Mem. Hosp., Miami, Fla.
bacteria..Streptococcus; streptokinase; virulence, micro-

AI-05552 GUNDERS, ARNON E., Hebrew Univ.-Hadassah Med. Sch., Jerusalem, Israel
blood cells..erythrocytes; cell components..cell membrane; protozoa..Plasmodium; hemolysis; antimalarials; sodium; potassium

AI-05681 SPRINGER, GEORG F., Evanston Hosp. Assn., Evanston, Ill.
viruses..influenza viruses; blood cells..erythrocytes; immunology..antigens; immunology..hapten; blood groups.. blood group N; blood groups..blood group M; hemagglutination inhibition; immunological tests; meconium

AI-05682 SPRINGER, GEORGE F., Evanston Hosp. Assn., Evanston, Ill.
infectious mononucleosis; immunology..antibody inhibitors; enzymes; blood cells..erythrocytes; hemagglutination; diagnostic tests; chemical structure--biological activity

AM-00068 GLASS, GEORGE B.J., New York Med. Col., N.Y.C.
fractionation; stomach..gastric juice; mucoproteins; mucopolysaccharides; intrinsic factor; vitamin B12; proteases; aminopolysaccharides; peptides

AM-00182 BRUBAKER, CHARLES A., Childrens Hosp., Los Angeles, Cal.
copper; iron; infant human; hypoproteinemia; hypocupremia; hypochromic anemia; blood proteins..serum proteins; gastrointestinal disorders; radiolabeled iodine; therapy; metabolites; hypersensitivity; milk; growth

AM-00227 SMITH, CARL H., Sch. Med., Cornell Univ., N.Y.C.
anemia; blood cells..erythrocytes; blood disorders; chelating agents; children; congenital abnormalities; enzymes; hemosiderosis; iron

AM-00533 TURNER, DANIEL L., Jefferson Med. Col., Philadelphia, Pa.
phospholipids; blood coagulation..thromboplastin; blood coagulation..antithromboplastin; blood coagulation..anticoagulants; phosphatidyl serine; heparin; proteins; fungi.. yeasts; phosphatidyl ethanolamine; lecithin

AM-00537 SWISHER, SCOTT N., Sch. Med. Dent., Univ. Rochester, Rochester, N. Y.
immunology..antibodies; blood cells..erythrocytes; phagocytosis; adrenal cortex hormones; blood transfusion; hemolysis; serology; hemolytic anemia

AM-00721 HENDERSON, THOMAS R., Sch. Med., Univ. Arkansas, Little Rock, Ark.
nutrition; hematopoiesis; bone marrow; deoxyribonucleic acid; deuterium oxide; hydrogen bond; molecular structure; dehydrogenases..5,10-methylenetetrahydrofolic dehydrogenase; vitamin B12 coenzymes; coenzymes

AM-00745 HARRIS, JOHN W., Metropolitan Gen. Hosp., Cleveland, Ohio
hematopoiesis..erythropoiesis; sickle cell anemia; heme; tryptophan; pyridoxine; iron; infant human..newborn; blood cells..erythrocytes; erythropoietin; blood cells.. thrombocytes; endotoxins; blood disorders; kidney; folic acid; vitamin B12; blood coagulation; cardiovascular surgery

AM-00780 SCHNEIDER, ROSE G., Sch. Med., Univ. Texas, Galveston, Tex.
hemoglobin; infant human; ethnic groups..Negroes; ethnic groups..whites; genetics; adults; ethnic groups.. American Indians; immunology; hemoglobinopathy; sickle cell anemia

AM-00795 HERBERT, VICTOR, Boston City Hosp., Boston, Mass.
erythropoiesis; hydrogen-ion concentration; immunity; intrinsic factor; liver circulation

AM-00946 DERN, RAYMOND J., Stritch Sch. Med., Loyola Univ., Chicago, Ill.
binding; blood..serum; bone marrow; hematopoiesis.. erythropoiesis; hormones; intestinal absorption; iron; molybdenum

AM-00965 GARDNER, FRANK H., Peter Bent Brigham Hosp., Boston, Mass.
age; blood..serum; blood cells..erythrocytes; body composition; cell age; drugs; hemagglutination; hematopoiesis..erythropoiesis; hemoglobin; hemoglobinopathy; hemolysis; hormones; immunology..antibodies; testosterone

AM-01024 PISCIOTTA, ANTHONY V., Sch. Med., Marquette Univ., Milwaukee, Wis.
blood cells; blood disorders; immunology..antibodies; immunity..autoimmunity; nucleic acids; proteins

AM-01063 WASSERMAN, LOUIS B., Mt. Sinai Hosp., New York, N.Y.
iron; blood cells..erythrocytes; hemoglobin; hematopoiesis; radiolabeled iron; lymph; body fluids; transferrin

AM-01167 THORUP, OSCAR A., Jr., Sch. Med., Univ. Virginia, Charlottesville, Va.
blood cells..erythrocytes; bone marrow; catalase; hematopoiesis..erythropoiesis; hemoglobin; organ culture

AM-01380 HAMILTON, HENRY E., Sch. Med., State Univ. Iowa, Iowa City, Iowa
blood cells..erythrocytes; pernicious anemia; disulfides; sulfhydryls; chemical bonds; macroglobulinemia; bone marrow; lipids; hemotoxins; immunofluorescence; enzymes; hyperferremia; lupus erythematosus; hemolysis

AM-01655 MAZUR, ABRAHAM, New York Hosp., N.Y.C.
blood cells..erythrocytes; blood cells..reticulocytes; bone marrow; ferritin; heme; iron; liver

AM-01991 LINMAN, JAMES W., Veterans Admin. Res. Hosp., Chicago, Ill.
hematopoiesis..erythropoiesis; polycythemia; blood cells.. erythrocytes; blood cells, leukocytes; blood cells..

AM-02655 LOWY, BERTRAM A., Albert Einstein Col. Med., New York, N.Y.
blood cells..erythrocytes; adenosine triphosphate; cell age; purine nucleotides; growth; purine nucleosides; purine; ribonucleic acid; bone marrow

AM-02776 PEREZ-SANTIAGO, ENRIQUE, University Hosp., San Juan, P.R.
vitamin B12; sprue; folic acid; radiolabeled; cerebrospinal fluid; nematodes..Strongylata; malabsorption syndromes; bacteria

AM-02823 McCURDY, PAUL R., D.C. Gen. Hosp., Washington, D.C.
bone marrow; radiolabeled iron; radiolabeled chromium; hematopoiesis..erythropoiesis; hemolysis; hemoglobin; fetus; blood cells..erythrocytes; hemoglobin--F; sickle cell anemia; hemoglobinopathy

AM-02887 WALLERSTEIN, RALPH O., Children's Hosp., San Francisco, Cal.
anemia; iron; chloramphenicol; hemosiderin; hematopoiesis..erythropoiesis

AM-02917 WHITE, JAMES G., Univ. Minnesota, Minneapolis, Minn.
chemotherapy; radiation effects..whole body radiation; transplantation immunology; blood cells..thrombocytes; anti-inflammatory agents; bactericides; antimetabolites; blood coagulation..thromboplastin; blood coagulation.. plasmin; hemorrhage; blood disorders

AM-02940 ZUELZER, WOLF W., Child Res. Cr., Detroit, Mich.
hemoglobin; genetics; thalassemia; fetus; ethnic groups.. Negroes; infants, human; hemoglobinopathy

AM-02956 CHERNOFF, AMOZ I., Grad. Sch., Univ. Tennessee, Knoxville, Tenn.
hemoglobin; genetics; amino acids; molecular structure; thalassemia; hemolytic anemia

AM-02973 FISHER, JAMES W., Univ. Tennessee Med. Units, Memphis, Tenn.
adrenal cortex hormones; hematopoiesis..erythropoiesis; cobalt; ions; radiolabeled iron; blood cells..erythrocytes; kidney; perfusion; nephrectomy; adrenalectomy; anemia; malaria; erythropoietin; radiation effects; alkylating agents

AM-02992 EBAUGH, FRANKLIN G., Jr., Dartmouth Med. Sch., Hanover, N.H.
anemia; blood cells..leukocytes; bone marrow diseases; culture media; hemoglobin; ion exchange; leukemia; lipids; molecular energy levels; nucleic acids; peripheral vascular system; radiolabeled chromium; radiolabeled phosphorus; radiolabeled zinc

AM-03691 WATSON, R. JANET, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
blood cells..erythroblasts; dietary deficiency; folic acid; hemolytic anemia; infants,(human)..premature infants; liver; megaloblastic anemia; sickle cell anemia; stress; thalassemia

AM-03802 MEINEKE, HOWARD A., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
radiation effects..whole body radiation; x--rays; hormones; hematopoiesis; radiation protection; bone marrow; erythropoietin; chlorambucil; radiolabeled iron; blood cells..reticulocytes

AM-03803 KRAUS, ALFRED P., Sch. Med., Univ. Tennessee, Memphis, Tenn.
dehydrogenases..glucose--6--phosphate dehydrogenase; oxidoreductases..phosphogluconate dehydrogenase; phosphotransferases..ATP : pyruvate phosphotransferase; oxidoreductases..lactate dehydrogenase; blood cells.. erythrocytes; metabolic disorders inborn

AM-03897 ROUSSELOT, LOUIS M., St. Vincent's Hosp., New York, N.Y.
liver cirrhosis; blood coagulation..fibrinolysis; proteases; enzymes inhibitors; blood cells..thrombocytes; blood vessels shunts..portacaval shunt

AM-03978 TSUBIO, KENNETH K., Sch. Med., Stanford Univ., Palo Alto, Cal.
blood cells..erythrocytes; blood disorders; carbohydrates; longitudinal study; nucleotides; osmotic pressure

AM-04048 HAMMOND, DENMAN, Children's Hosp., Los Angeles, Cal.
hematopoiesis..erythropoiesis; children; anemia; bioassay; bone marrow; erythropoietin

AM-04156 RABINER, S. FREDERICK, Michael Reese Hosp., Med. Cr., Chicago, Ill.
screening; blood coagulation..thromboplastin; blood coagulation..factor X; liver function; infant human.. premature infants; vitamin K; hemorrhagic disease; hepatitis

AM-04344 SCHUBERT, WILLIAM K., Children's Hosp. Res. Fdn., Cincinnati, Ohio
amino acid; aminoaciduria; children; hypochromic anemia; hypoproteinemia; iron; proteins; PVP; radiolabeled iodine; therapy

AM-04434 WASSERMAN, LOUIS R., Mount Sinai Hosp., N.Y.C.
blood disorders; blood proteins..plasma proteins; disease classification; immunology; metabolic diseases; therapy

AM-04435 WATSON, CECIL J., Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
blood cells..erythrocytes; bone marrow; coproporphyrins; Ehrlich reaction; hematopoiesis..erythropoiesis; isomers; porphobilinogen; porphyria; protoporphyrins; uroporphyrins

AM-04485 McCARTHY, MILES D., Orange State Col., Fullerton, Cal.
blood..serum; blood cells..erythrocytes; immune sera; immunology..antibodies; injury..burns; proteins; reticulocytosis; reticuloendothelial system; thorotrast; trauma

AM-04489 WINTROBE, MAXWELL M., Salt Lake County Gen. Hosp., Salt Lake City, Utah
blood cells..erythrocytes; blood cells..granulocytes; blood coagulation..Hageman factor; blood disorders; cancer chemotherapy; copper; hematopoiesis..erythropoiesis; hemins; hemoglobin; hyperferremia; hypochromic anemia; iron; leukemia; lymphoma; mycrocytic anemia; peroxidases ..glutathione peroxidase; proteins; protoporphyrin

AM-04502 RANNEY, HELEN M., Albert Einstein Col. Med., Bronx, N.Y.
hemoglobin; hemoglobinopathy; chemical structure; oxygenation; blood cells..erythrocytes; hemoglobin S; congenital abnormalities

AM-04847 CARTER, JOHN R., Sch. Med., U. Kansas, Kansas City, Kansas
blood coagulation..prothrombin; proteins; molecular structure; amino acid

AM-04912 BOTHWELL, THOMAS H., Univ. Witwatersrand, Johannesburg, South Africa
iron; ethnic groups..Bantu; sex difference; age; intestinal absorption

AM-05011 SHAFER, A. WILLIAM, Scripps Clin. Fdn., La Jolla, Cal.
carbohydrates; blood cells..erythrocytes; radiolabeled phosphorus; ion exchange resins; congenital abnormalities; spherocytosis; hemolytic anemia; oxidoreductases.. glucose-6-phosphate dehydrogenase; galactosemia, congenital; glycogenosis

AM-05012 PITCAIRN, DONALD M., Univ. Oregon Med. Sch., Portland, Ore.
hemoglobin; cell age; blood cells..erythrocytes; metabolic diseases; molecular structure; oxygen tension; oxyhemoglobin

AM-05200 LOWENSTEIN, LOUIS, Royal Victoria Hosp., Montreal, Quebec, Canada
anemia; pregnancy; iron; folic acid; vitamin B12; pyridoxine; therapy; dietary deficiency; diagnostic tests; blood volume

AM-05289 ALT, HOWARD L., Sch. Med., Northwestern Univ., Chicago, Ill.
anemia; azotemia; hematology; hematopoiesis.. erythropoiesis; hemodialysis; kidney; kidney disorders; radiolabeled chromium; radiolabeled iron; thymidine

AM-05325 PERLMUTTER, MARTIN, Maimonides Hosp., Brooklyn, N.Y.
biological models; blood cells..erythrocytes; triiodothyronine; radiolabeled iodine; styrene; globulins; temperature; hydrogen--ion concentration; carbon dioxide tension; thyroid gland; binding; albumins; thyroxine

AM-05874 LEVIN, WILLIAM C., Med. Sch., Univ. Texas Med. Branch, Galveston, Texas
blood proteins..serum proteins; blood disorders; immunology; thiols; amino acid; urea; globulins.. serum globulins; solubility

AM-06045 ROTHENBERG, SHELDON P., New York Med. Col., New York, N.Y.
vitamin B12; radioassay; proteins

AM-06051 DESFORGES, JANE F., Boston City Hosp., Boston, Mass.
blood cell..erythrocytes; aging; hemolysis; glycolysis; oxidation--reduction; hemoglobin; glutathione; radiolabeled phosphorus; cell components..cell membrane

AM-06285 CELANDER, DAVID R., Col. Osteopathic Med., Surg., Des Moines, Iowa
plasminokinases..urokinases; chemical structure; bioassay; stress; trauma; blood coagulation..plasminogen; therapy

AM-06367 BISHOP, CHARLES W., Buffalo Gen. Hosp., Buffalo, N.Y.
purines; carbohydrates; blood cells..erythrocytes; radiolabeled carbon; hydrogen-ion concentration; nucleosides; blood preservation

AM-06520 POLLYCOVE, MYRON, San Francisco Gen. Hosp., San Francisco, Cal.
longitudinal study; dietary deficiency; vitamin B12; folic acid; radiolabeled carbon; glycine; histidine; megaloblastic anemia; nucleoproteins; therapy; propionic acid

AM-06963 DISEKER, MAUDE, Univ. Alabama Med. Cr., Birmingham, Ala.
hyperbilirubinemia; dehydrogenases..glucose-6-phosphate dehydrogenase; reductases..glutathione reductase; glutathione; vitamin K; infants, human..newborn; infants, human..premature infants; hypoglycemia; hemolysis; blood cells..erythrocytes

AM-07067 RICHARDS, VICTOR, Presbyterian Med. Cr., San Francisco, Cal.
bone marrow; radiation effects; injury; x-rays; dosage; amorphous solids; deoxyribonucleic acid

AM-07156 ODELL, GERARD B., Sch. Med., Johns Hopkins Univ., Baltimore, Maryland
bilirubin; cell components; cell components..mitochondria; oxidative phosphorylation; toxicology; binding; blood proteins..plasma proteins; kidney function; infants (human); jaundice

AM-07223 MacHAFFIE, REGINALD A., Sch. Sci., Oregon State Univ., Corvallis, Oregon
blood cells..lymphocytes; carbohydrates; amino acid; leukemia..lymphocytic leukemia; infectious mononucleosis; radiolabeled carbon; tissue respiration; metabolites

(contd)

HEMATOLOGY (CONTD)

CA-04168 DAMESHEK, WILLIAM, New England Cr. Hosp., Boston, Mass.
adrenal cortex hormones; antimetabolites; blood cells.. granulocytes; blood cells..leukocytes; blood cells.. thrombocytes; blood preservation; blood transfusion; bone marrow; cancer chemotherapy; carcinogens; cell age; erythremic myelosis; family; hemorrhage; homologous wasting disease; immunity; immunology..antigens; immunology..autoantibodies; leukemia; leukemia..acute leukemia; phosphomonoesterases..alkaline phosphatase; polycythemia; radiolabeled chromium; radiation effects; thrombocytopenic purpura; toxins; transplantation

CA-04508 BUTTERWORTH, C.E., Jr., Sch. Med., Univ. Alabama, Birmingham, Ala.
blood cells..leukocytes; cooperative study; deoxyribonucleotides; drugs resistance; leukemia; 6-mercaptopurine; phosphorylases..pyrophosphorylases; ribonucleotides

CA-04881 RICHARDS, VICTOR, Inst. Med. Sci., San Francisco, Cal.
freezing; bone marrow preservation; transplantation..autotransplantation; transplantation..homotransplantation; bone marrow transplantation

CA-05109 FERREBEE, JOSEPH W., Bassett Hosp., Cooperstown, N.Y.
leukemia..mouse leukemia L1210; leukemia..mouse leukemia, Moloney; bone marrow transplantation; antineoplastic agents; x--rays; radiation effects; radiation protection; radiation therapy; therapy

CA-05226 FRANES, PATRICIA, Rhode Island Hosp., Providence, R.I.
fibroblasts; bone marrow; phosphomonoesterases.. alkaline phosphatases; cytology

CA-05307 SBARRA, ANTHONY J., St. Margarets Hosp., Boston, Mass.
bacteriolysins; neoplastic cells; phagocytosis; cell components..cell membrane; membrane permeability and transport; blood cells..leukocytes; leukemia..chronic leukemia; leukemia..lymphocytic leukemia; blood cells.. neutrophil leukocytes; cell components..lysosomes; blood..serum

CA-05375 WEISS, LEON, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
arteries; blood cells..erythrocytes; bone marrow; heat; hematopoiesis..erythropoiesis; hemolytic anemia; phagocytosis; phenylhydrazine; spleen; veins

CA-05485 PETRAKIS, NICHOLAS L., Sch. Med., Univ. California, San Francisco, Cal.
blood cells..leukocytes; micropore diffusion chamber growth; organ culture; bone marrow; embryology; anemia; bone; genetics
technique; leukemia; blood cells..monocytes; blood cells..lymphocytes; cell differentiation; histiocytes; fibroblasts; hematopoietic tissues; nutrition; hormones;

CA-05493 DeBRUYN, PETER P.H., Sch. Med., Univ. Chicago, Chicago, Illinois
blood cells..granulocytes; cell migration; chemotaxis; hematopoiesis..leukopoiesis

CA-05524 PISCIOTTA, ANTHONY V., Sch. Med., Marquette Univ., Milwaukee, Wis.
bone marrow; nucleic acids; chlororomazine; agranulocytosis; blood cells..leukocytes; cell-free systems; bioassay; thymidine; deoxyribonucleic acid; enzymes; drugs tolerance

CA-05525 WRIGHT, CLAUDE STARR, Med. Col. Georgia, Augusta, Ga.
cell components..cell nucleus; blood cells..leukocytes; cytolysis; diagnostic tests; blood cells..lymphoblasts; enzymes; cancer chemotherapy; membrane permeability; nucleases..deoxyribonuclease; leukemia

CA-05554 HAURANI, FARID I., Jefferson Med. Col., Philadelphia, Pa.
iron; neoplasms; hypochromic anemia; hemoglobin; anemia; sarcoidosis; tuberculosis; testosterone; arthritis..rheumatoid arthritis; 1 H pyrazolo (3,4--d)pyrimidin--4--ol; radioisotopes..iron 55; transferrin; radioisotopes..iron 59; therapy evaluation; inflammation

CA-05691 MOLONEY, WILLIAM C., Holy Ghost Hosp., Cambridge, Mass.
chloroma; 3--methylcholanthrene; radiation effects.. whole body radiation; 20--methylcholanthrene; cytology; blood cells..myelocytes; folic acid; vitamin B12; neoplasms transplantation; genetics; virus--like particles; leukemia; carcinogens

CA-05773 EMERSON, CHARLES P., Evans Mem. Lab., Boston, Mass.
bone marrow; cancer; anemia; phagocytosis; blood cells.. erythrocytes; immunoelectrophoresis; gel diffusion technique; immunology..agglutinins; immune sera; opsonins; globulins; tissue culture; iron

CA-05774 KOSZEWSKI, BOHDAN J., Sch. Med., Creighton Univ., Omaha, Nebr.
drugs; fractionation; globulins..serum globulins; immunology..agglutinins; leukemia; leukopenia; primates..Macaca mulatta; reticuloendothelial system; thrombocytopenia; thrombocytosis

CA-05962 PUBLIESE, PETER T., Bernville, Pa.
cell culture; blood cells; oxygen tension; carbon dioxide tension; oxidoreductases..cytochrome oxidases; cell division..mitosis; neoplasms

CA-05965 McNEIL, CRICHTON, Holy Cross Hosp. Res. Fdn., Salt Lake City, Utah
cancer; blood groups; salivary glands; blood disorders; metastasis

CA-06035 MIYAKA, TADASHI, Sch. Med., Kyoto Univ., Kyoto, Japan
4-aminofolic acid; blood cells..neutrophil leukocytes; bone marrow; congenital abnormalities; genetics; hyperchromic anemia; leukemia; leukemia..myeloid leukemia; maternal-fetal; myelosis (bone marrow); phosphatases.. alkaline phosphatase; splenomegaly

CA-06234 TRUAX, WAYNE E., Univ. Texas Med. Br., Galveston, Tex.
blood cells..plasma cells; gamma globulin; myeloma globulins; blood proteins; fractionation; radiolabeled iodine; radiation counters; enzymes

CA-06352 MARSHAK, ROBERT R., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
lymphosarcoma; blood cells..lymphocytes; blood cells ..leukocytes; genetics; genetics..chromosomes; longitudinal study; tritium; deoxyribonucleic acid; ribonucleic acid; cytology

CA-06490 LAPPAT, E.J., Univ. Kentucky Med. Cr., Lexington, Ky.
squamous cell carcinoma A--280; blood cells; bone marrow; spleen; cytology; genetic strains; leukemia; host--neoplasm; viruses; hematopoiesis..leukopoiesis

CA-06504 RABINOWITZ, YALE, Veterans Admin. Hosp., Hines, Ill.
blood cells; bone marrow; cell types; neoplastic cells; leukemia; cell culture

CA-06513 GARNER, RAYMOND L., Sch. Med., Dent., Seton Hall Col., Jersey City, N.J.
mitogenic factor, phytohemagglutinin; blood cells.. leukocytes; cell division..mitosis

CA-06604 PONDER, ERIC H., Pasteur Inst., Paris, France
blood cells..erythrocytes; carcinoma; fatty acids; host-neoplasm; lipids; lipoproteins..serum lipoproteins; neoplasms; surface properties

CA-06679 SIMON, JOSEPH, Col. Vet. Med., Univ. Illinois, Urbana, Ill.
blood cells..leukocytes; carcinogenesis; cattle; cell-free systems; epizootiology; leukemia; lymphosarcoma; tissue culture; swine; veterinary medicine

CA-06680 LEIKIN, SANFORD L., Children's Hosp., Washington, D.C.
age; blood cells..lymphocytes; children..adolescence; deoxyribonucleic acid; hematopoiesis; infants. human; lymph nodes; thymidine

CA-06681 GARVIN, JAMES E., Sch. Med., Northwestern Univ., Chicago, Ill.
blood cells..neutrophil leukocytes; blood proteins..serum proteins; cell adhesion; cell components..cell membrane; culture media; fractionation; proteases; proteins; radiolabeled carbon; surface properties; temperature

CA-06754 SABINE, JEAN C., Univ. California Med. Cr., San Francisco, Cal.
blood cells..erythrocytes; blood cells..reticulocytes; leukemia; lymphoma; anemia; cancer chemotherapy; diagnostic tests; choline esterases..acetylcholinesterase; oxidoreductases..glucose--6--phosphate dehydrogenase; oxidoreductases..lactate dehydrogenase; reticulocytosis; glycolysis; cell age; radiolabeled iron; radiolabeled chromium; hemolysis; blood cells..leukocytes; glutathione; enzymes..isoenzymes

CA-06789 LAWRENCE, JOHN S., Univ. California Med. Cr., Los Angeles, Cal.
immune sera; blood cells..neutrophil leukocytes; blood cells..lymphocytes; blood cells..lymphoblasts; myelosis, bone marrow; lymphatic tissue; deoxyribonucleic acid; tritium; thymidine; hematopoiesis; leukemia; cell age

CA-06848 HRACHOVEC, JOSEF P., Sch. Pub. Hlth., Univ. California, Los Angeles, Cal.
blood cells..leukocytes; blood proteins..plasma proteins; albumins..plasma albumins; palmitic acid; ovalbumin; glucose; oxidation; radiolabeled carbon; acetates; dextran; methyl cellulose; PVP

CA-07000 BRODY, JEROME I., Grad. Hosp., Univ. Pennsylvania, Philadelphia, Pa.
hemolytic anemia; leukemia..lymphocytic leukemia; globulins..serum globulins; Coombs test; blood cells.. erythrocytes; blood cells..lymphocytes; immunology; immunity..autoimmunity; immunology..antigens

CA-07028 WALKER, RICHARD I., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
blood cells..leukocytes; deoxyribonucleic acid; bone marrow; radiolabeled phosphorus; leukemia; endotoxins; steroids; fractionation; hematopoiesis..leukopoiesis

CA-07169 CRADDOCK, CHARLES G., Sch. Med., Univ. California Med. Cr., Los Angeles, Cal.
adrenal cortex hormones; blood cells; cell differentiation; deoxyribonucleic acid; hepatectomy; immunology..antigen-antibody reactions; lymphatic tissue; radiation effects; splenectomy; thymectomy; thymus; transplantation..homotransplantation

CA-07329 GOKCEN, MUHARREM, Glenwood Hill Hosp., Minneapolis, Minn.
leukemia; blood cells..neutrophil leukocytes; blood cells.. lymphocytes; immunology..antigens; immunology..antibodies; deoxyribonucleic acid; ribonucleic acid; messenger ribonucleic acid; nucleoproteins; hemagglutination; complement-fixation tests; reaction sites; nucleases..deoxyribonuclease

CA-07336 **BORGES, WAYNE H., Children's Memorial Hosp., Chicago, Ill.**
blood cells..leukocytes; cell division..mitosis; children; genetics..chromosomes; leukemia..acute leukemia; neoplasms classification; therapy

CA-07541 **SCHREK, ROBERT, Veterans Admin. Hosp., Hines, Ill.**
blood cells..leukocytes; leukemia..acute leukemia; leukemia..chronic leukemia; cytotoxicity; blood..serum; lymph nodes

CA-07606 **CLIFFTON, EUGENE E., Sloan-Kettering Inst. Cancer Res., New York, N.Y.**
blood coagulation..fibrinolysis; blood coagulation..fibrinogen; blood coagulation..plasmin; blood coagulation..plasminogen; blood coagulation..thrombokinase; proteases; plasminokinases; neoplastic growth; homeostasis; spleen; lipids; enzymes inhibitors..antiplasmin

CA-07621 **GOLLUB, S., St. Barnabus Hosp., Bronx, N.Y.**
bacteria..Bacillus cereus; blood coagulation..thromboplastin; enzymes substrate; phospholipases..thromboplastin phospholipase; phospholipids

CA-07724 **PRAGER, MORTON D., Wadley Res. Inst. and Blood Bank, Dallas, Tex.**
blood cells..leukocytes; transcarbamylases..aspartate transcarbamylase; leukemia..lymphocytic leukemia; leukemia..myeloid leukemia; polycythemia vera; blood disorders; purine; pyrimidine; chemical structure--biological activity

CA-07784 **BEARD, MARION F., Louisville Gen. Hosp., Louisville, Ky.**
leukemia..myeloid leukemia; leukemia..chronic leukemia; blood..plasma; vitamin B12; growth factors; blood serum; pernicious anemia; blood cells..reticulocytes

CA-07800 **AMBRUS, CLARA M., Hlth. Res., Inc., Buffalo, N.Y.**
spleen; growth factors; regeneration; growth inhibitors; spleen tissue (cells) transplantation; organ culture; cell-free systems; tritium

CA-07801 **MOLONEY, WILLIAM C., Boston City Hosp., Boston, Mass.**
leukemia..myeloid leukemia; leukemia..chronic leukemia; myelosis, bone marrow; bone marrow; cell differentiation; blood cells..leukocytes; vitamin B12; folic acid; cell division..mitosis; genetics..chromosomes

CA-08028 **McCOLLISTER, ROBERT J., Col. Med. Sci., Univ. Minnesota Hosp., Minneapolis, Minn.**
nucleus; leukemia, lymphocytic leukemia; leukemia myeloid leukemia; blood cells..leukocytes; radiolabeled carbon; nucleotides; nucleic acids

CA-08058 **VANDERWENDE, CHRISTINA, Rutgers Univ., Newark, N.J.**
blood cells..neutrophil leukocytes; glycogen; leukemia..chronic leukemia; leukemia..myeloid leukemia; phosphomonoesterases..alkaline phosphatase; glycogenolysis; glycogenesis; uridine diphosphate glucose

CA-08063 **RUBINI, JOSEPH R., Veterans Admin. Hosp., Coral Gables, Fla.**
deoxyribonucleic acid; phosphomonoesterases..alkaline phosphatase; thymidine; neoplasms; blood cells..leukocytes; bone marrow; pregnancy..placenta; Walker carcinoma 256; pinocytosis

CA-08279 **MEYER, LEO M., Queens Hosp. Cr., Jamaica, N.Y.**
vitamin B12; radiolabeled cobalt; intestinal absorption; binding; cell components; blood cells..leukocytes; proteins; vitamin B12 analogs; blood..serum; leukemia; tissue

DE-01213 **DOKU, HRISTO C., Sch. Dent. Med., Tufts Univ., Boston, Mass.**
blood coagulation..thromboplastin; saliva; diagnostic tests; blood disorders; blood coagulation; blood coagulation..fibrinolysis

GM-04730 **SCHULTZE, M.O., Univ. Minnesota, St. Paul, Minn.**
aplastic anemia; dichlorovinylcysteine; radiolabeled sulfur; radiolabeled carbon; enzymes

GM-04777 **BUCKWALTER, JOSEPH A., Col. Med., State Univ. Iowa, Iowa City, Iowa**
blood groups; bone fractures; brain neoplasms; computer analysis; gastrointestinal disorders; gastrointestinal neoplasms; psychoses; rheumatic fever; saliva; stomach..gastric juice

GM-08607 **SHAHID, MUNIB, Sch. Med., American Univ. Hosp., Beirut, Lebanon**
epidemiology; hemoglobinopathy; geographical sites..Middle East; sickle cell anemia; thalassemia; blood transfusion; cell age; blood cells..erythrocytes; megaloblastic anemia

GM-09107 **DIAMOND, LOUIS K., Childrens Hosp. Med. Cr., Boston, Mass.**
blood groups; genetics..chromosomes; genetics..genes

GM-09237 **WIENER, ALEXANDER S., Col. Med., New York Univ., New York, N.Y.**
blood groups..Rh factors; immunology..Rh antibodies; serology; primates..chimpanzees; primates..monkeys; primates..baboons; blood groups..blood group A; blood groups..blood group B; blood groups..blood group O; blood groups..rare blood groups

GM-10198 **VAN DEENEN, L.L.M., State Univ. Utrecht, The Netherlands**
phospholipids: membrane permeability; neoplasms; blood cells..erythocytes; cell age; blood disorders; cell components..intracellular membranes; cell components..cell membrane; lipids

HL-00050 **CLAYTON, EVERETT M., JR., Nashville Gen. Hosp., Nashville, Tenn.**
pregnancy; blood cells..erythrocytes; fetus; maternal-fetal; blood groups..RH factors

HD-00254 **BERNSTEIN, SELDON E., R.B. Jackson Mem. Lab., Bar Harbor, Me.**
genetics; blood disorders; training; embryology; immunology

HD-00270 **BELLER, FRITZ K., New York Univ. Med. Cr., N.Y.C.**
proteolysis; blood coagulation..fibrinolysis; pregnancy; trophoblast; blood; epsilon-aminocaproic acid

HD-00568 **SCHULMAN, IRVING, Col. Med., Univ. Illinois, Chicago, Ill.**
thrombopoiesis stimulating factor; thrombopoiesis inhibitors; chemical structure--biological activity; infant human; children; thrombocytopenia; carbohydrases..neuroaminidase; bone marrow; hemorrhagic disease

HD-00572 **CHAN, ASTERIA C., Col. Med., Univ. Philippines, Manila, Philippines**
infant human..newborn; ABO hemolytic diseases, newborn; ethnic groups..Filipinos; serology; immunity..isoimmunity; enzymes

HD-01100 **HATHAWAY, WILLIAM E., Univ. Colorado Med. Cr., Denver, Colo.**
infant animals..newborn; blood coagulation..prothrombin; blood coagulation..factor V; blood coagulation..factor VII; blood coagulation..factor IX; blood coagulation..factor X; hypoxia; liver; hemorrhage; vitamin K; bishydroxycoumarin

HD-01457 **ULSTROM, ROBERT A., Sch. Med., Univ. California, Los Angeles, Cal.**
bilirubin; infant human..newborn; haptoglobins; bile; liver circulation; hemolysis; radiolabeled carbon; radiolabeled chromium; stable isotope labeled nitrogen

HD-01504 **JENNINGS, ELMER R., Memorial Hosp., Long Beach, Cal.**
blood groups..Rh factors; immunology..Rh antibodies; immunity..isoimmunity; therapy evaluation; gamma globulin 7s; immune sera; pregnancy..postpartum

HD-01513 **POLESKY, HERBERT F., Minneapolis War Mem. Blood Bank, Minneapolis, Minn.**
erythroblastosis fetalis; blood groups..Rh factors; immunology..Rh antibodies; genetics..genotypes; family..parent--child; immunological tests

HE-00022 **MOORE, CARL V., Sch. Med., Washington Univ., St. Louis, Mo.**
iron; intestinal absorption; cell components..cell membrane; blood cells..lymphocytes; immunology..antibodies; hemoglobin; hemoglobinopathy; hematopoiesis..erythropoiesis; enzymes; alkylating agents; leukemia; thalassemia; sickle cell anemia

HE-00656 **ALEXANDER, BENJAMIN, Beth Israel Hosp., Boston, Mass.**
blood coagulation..thromboplastin; blood coagulation..prothrombin; blood coagulation..factor VII; blood coagulation..factor X; blood coagulation..thrombin; blood coagulation..fibrinogen; blood coagulation..fibrinolysis; blood cells..thrombocytes; chemical structure; hemorrhage; thrombosis proteases..chymotrypsinogen; proteases..procarboxypeptidase B

HE-00749 **REINHARDT, WILLIAM O., Sch. Med., Univ. California, San Francisco, Cal.**
thoracic duct; lymph flow; blood cells..lymphocytes; hematopoiesis..leukopoiesis; edema (generalized); hemorrhage; diet; metabolic diseases

HE-00902 **BERMAN, HERBERT J., Grad. Sch., Boston Univ., Boston, Mass.**
thromboembolism; blood cells..thrombocytes; cinemicrography; hemorrhage; therapy evaluation; hemagglutination; blood circulation dynamics; dextran; blood flow; viscosity

HE-01058 **SISE, HERBERT S., Boston City Hosp., Boston, Mass.**
blood coagulation..anticoagulants; cardiovascular diseases; thrombosis

HE-01069 **VALENTINE, WILLIAM N., Sch. Med., Univ. California, Los Angeles, Cal.**
blood cells; blood disorders; glycolysis; blood cells..leukocytes; blood cells..erythrocytes; hemolytic anemia; enzymes; deoxyribonucleic acid; leukemia; tritium; thymidine; radiolabeled phosphorus; phosphorylation; polymerization; deoxyribonucleotides; cell division; bone marrow

HE-01076 **BOYD, WILLIAM C., Sch. Med., Boston Univ., Boston, Mass.**
amino acid; blood groups; blood groups..Rh factors; carbohydrates; hemagglutination inhibition; immunology..agglutinins; immunology..antigens; lectins; plants

HE-01263 **HAM, THOMAS H., University Hosp., Cleveland, Ohio**
hemolysis; blood cells..erythrocytes; immunology..isoantibodies; phagocytosis; heat; pigments; myoglobinuria; immunology..antibodies; immunology..complement; sickle cell anemia; hyperosmolarity; hemoglobinuria; viscosity; stroma

HE-01380 **TUTTLE, ARLISS H., Sch. Med., Univ. Tennessee, Memphis, Tenn.**
hemoglobin; blood cells..erythrocytes; infant human..newborn; radiation effects; therapy; hyperbilirubinemia; pregnancy; ethnic groups..Negroes; blood disorders; primates..Macaca mulatta; erythropoietin

(contd)

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HEMATOLOGY (CONTD)

HE-01510 FERGUSON, JOHN H., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
blood coagulation..thromboplastin; phospholipids; blood coagulation..fibrinolysis; surface properties; blood coagulation..Hageman factor; plasminokinases; epsilon--aminocaproic acid; blood disorders; therapy; enzymes; thrombosis; blood cells..thrombocytes; phosphatases.. adenosine triphosphatase

HE-01601 CONLEY, C. LOCKARD, Johns Hopkins Hosp., Baltimore, Md.
hemostasis; hemorrhagic disease; blood cells..thrombocytes; blood coagulation..clot retraction; serotonin; blood coagulation..thrombin

HE-01612 QUICK, ARMAND J., Sch. Med., Marquette Univ., Milwaukee, Wis.
bioassay; blood coagulation..factor VIII; blood preservation; blood transfusion

HE-01661 RATNOFF, OSCAR, University Hosps., Cleveland, Ohio
hemostasis; blood coagulation..Hageman factor; blood coagulation..thromboplastin; blood coagulation..factor IX

HE-01895 TAGER, MORRIS, Emory Univ., Atlanta, Ga.
chemical structure; staphylocoagulase; blood..plasma; blood coagulation..prothrombin; blood coagulation.. fibrin; blood coagulation..fibrinogen; bacteria.. Staphylococcus

HE-01919 ROTH, KARL L., Albert Einstein Med. Cr., Philadelphia, Pa.
heparin; immunology; hemolytic anemia; longitudinal study; tritium

HE-02212 LORAND, LASSLO, Sch. Dent. Chem., Northwestern Univ., Evanston, Ill.
blood coagulation..anticoagulants; blood coagulation.. fibrin; blood coagulation..fibrin stabilizing factor; blood coagulation..thrombin; enzymes inhibitors; polymerization; proteases

HE-02254 LEWIS, JESSICA H., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
hemorrhagic disease; genetics; blood coagulation.. fibrinogen; radiolabeled iodine; immunology..antibodies; immunofluorescence; blood coagulation..fibrinolysis; blood coagulation..fibrinolytic drugs; epsilon--aminocaproic acid; blood coagulation; blood proteins..plasma proteins; hemophilia

HE-02262 REEVE, E.B., Univ. Colorado Med. Cr., Denver, Colo.
albumins; amino acid; blood coagulation..fibrinogen; blood proteins..plasma proteins; radiolabeled carbon; radiolabeled iodine

HE-02274 ADELSON, EDWARD, George Washington Univ. Cancer Clinic, Washington, D.C.
blood coagulation: radiolabeled: blood proteins: scintillation counters; blood coagulation..Factor VIII; blood coagulation ..Factor IX: cell age

HE-02405 DIAMOND, LOUIS K., Children's Hosp. Med. Cr., Boston, Mass.
hypoplastic anemia, congenital; anemia; aplastic anemia; genetics; congenital abnormalities; malabsorption syndromes; therapy; adrenal cortex hormones; androgens; immunology..antibodies; blood groups; hematopoiesis

HE-02579 MILLS, GORDON C., Univ. Texas Med. Branch, Galveston, Tex.
blood cells..erythrocytes; nucleotides; ion exchange and transport; organophosphates

HE-02703 HALL, CHARLES E., Univ. Texas Med. Branch, Galveston, Tex.
hormones; blood cells..erythrocytes; stress; cell age; anemia; molecules..macromolecules; hypertension (systemic)

HE-02754 AGGELER, PAUL M., Children's Hosp., San Francisco, Cal.
blood..plasma; coumarins; blood coagulation..anticoagulants standardization; therapy; genetics

HE-02799 CONLEY, CARROLL L., Johns Hopkins Hosp., Baltimore, Md.
ethnic groups..Negroes; hemoglobin; fetus; hemoglobin F; hemoglobin D; genetics; hemoglobinopathy; polypeptides; sickle cell anemia

HE-02803 LONDON, IRVING M., Col. Med., Yeshiva Univ., N.Y.C.
bioassay; blood cells..erythrocytes; carbohydrates; cell age: congenital abnormalities: enzymes: erythropoietin: globins; glutathione; hemoglobin; methemoglobin; methemoglobinemia; nucleic acids; purine nucleotides; pyridine nucleotides

HE-02867 CLIFFTON, EUGENE E., Sloan-Kettering Inst. Cancer Res., New York, N.Y.
blood coagulation..plasmin; myocardial infarct; hyperlipemia; blood coagulation..fibrinogen; blood coagulation ..plasminogen; blood coagulation..fibrinolytic drugs; acid--base equilibrium; enzymes inhibitors..antiplasmin

HE-02904 GLUECK, HELEN I., Cincinnati Gen. Hosp., Cincinnati, Ohio
toluene sulfonyl--L--arginine methyl ester; blood coagulation..prothrombin; infant human..newborn; liver function tests; perfusion; proteases; leg; blood coagulation..cryofibrinogen; blood coagulation..factor VIII; diffusion dialysis; ninhydrin; hemorrhagic disease; heparin; pregnancy; sickle cell anemia; vitamin K; blood coagulation..anticoagulants; estrogens inhibitors; carbohydrases..hyaluronidase

HE-03028 EADIE, GEORGE S., Duke Univ. Med. Cr., Durham, N.C.
blood preservation; blood cells..erythrocytes; blood disorders; cell age; fractionation

HE-03036 LEWIS, JESSICA H., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
blood cells..thrombocytes; blood coagulation..fibrinolysis; cell age; immunofluorescence; liver cirrhosis; radiolabeled chromium; thrombocytopenia; uremia

HE-03357 GORDON, ALBERT S., Grad. Sch., New York Univ., New York, N.Y.
erythropoietin; anemia; thalassemia; blood cells.. reticulocytes; leukocytosis inducing factor; perfusion; bone marrow; leukemia; blood cells..leukocytes

HE-03365 PAYNE, ROSE O., Sch. Med., Stanford Univ., Stanford, Cal.
blood..serum; blood cells..leukocytes; family; genetics; immunology..antibodies; immunology..antigens; leukoagglutinins

HE-03374 PILIERO, SAN J., New York Med. Col., N.Y.C.
anemia; erythropoietin; hemotopoletic tissues; hypoxia

HE-03424 SEEGERS, WALTER H., Sch. Med., Wayne State Univ., Detroit, Mich.
blood coagulation..activation product: blood coagulation.. prothrombin

HE-03447 BARNHART, MARION T., Sch. Med., Wayne State Univ., Detroit, Mich.
blood coagulation..prothrombin: cell components..organelles; blood proteins..plasma proteins; cytology; immunology; proteases..cathepsins; blood coagulation.. plasmin: cell components..lysosomes

HE-03480 JIM, ROBERT T.S., Professional Cr. Bldg., Honolulu, Hawaii
survey; geographical sites..Hawaii; hemoglobin; blood cells..erythrocytes; oxidoreductases..glucose-6-phosphate dehydrogenase; blood disorders

HE-03509 HARTMANN, ROBERT C., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
androgens: blood cells..erythrocytes: blood cells.. thrombocytes; cell age; cholinesterases..acetylcholinesterase; hemoglobinuria..paroxysmal nocturnal hemoglobinuria; hemolysis; iron; proteases..trypsin; radiolabeled carbon; serotonin; therapy

HE-03544 KAZAL, LOUIS A., Jefferson Med. Col., Philadelphia, Pa.
lipoproteins; phospholipids; phosphatidyl serine; blood coagulation..anticoagulants; blood coagulation..fibrinogen; hemophilia; blood..plasma; blood coagulation..antithrombin; blood coagulation..thrombin; stomach, gastric juice; enzymes

HE-03697 PILGERAM, LAURENCE O., St. Barnabas Hosp. Res. Fdn., Minneapolis, Minn.
atherosclerosis; aging; blood coagulation

HE-03717 GUEST, M. MASON, Sch. Med., Univ. Texas, Galveston, Tex.
age; blood coagulation..anticoagulants standardization; blood coagulation..fibrinolysis; cardiovascular diseases; exercise; thrombosis

HE-03745 SHERRY, SOL, Sch. Med., Washington Univ., St. Louis, Mo.
blood coagulation..fibrinolysis; enzymes; therapy; thromboembolism

HE-03753 PROGER, SAMUEL, New England Cr. Hosp., Boston, Mass.
arterial occlusions; atherosclerosis; blood cells..thrombocytes; blood coagulation; blood coagulation..anticoagulants; blood coagulation..fibrinolysis; cephalins; coronary diseases; diet; lipids; lipids..plasma lipids; myocardial infarct

HE-03784 BACK, NATHAN, Health Research, Inc., Buffalo, N.Y.
radiolabeled iodine; blood coagulation..plasmin; immunology; blood coagulation..antiplasmin; blood coagulation..fibrinolysis; antihypertensive agents; hypotension; drugs tachyphylaxis; vasoactive agents; polypeptides

HE-03877 FELDMAN, FELIX, Maimonides Hosp., Brooklyn, N.Y.
glycine; bone marrow; thalassemia; sickle cell anemia; blood cells..erythrocytes; radiolabeled carbon; dehydratases..5-aminolevulinate hydrolases: porphyrins

HE-03906 MILSTONE, J. HASKELL, Sch. Med., Yale Univ., New Haven, Conn.
blood coagulation..thromboplastin; molecular structure; proteolysis; blood coagulation..prothrombin; hemorrhagic disease; blood coagulation..fibrinolysis; blood coagulation ..thrombokinase

HE-03940 OLWIN, JOHN H., Presbyterian-St. Luke's Hosp., Chicago, Ill.
blood coagulation..fibrin; blood coagulation..plasmin; blood coagulation..prothrombin; blood coagulation..thromboplastin; blood disorders; heparin; phospholipids; therapy

HE-03952 WEISBERGER, AUSTIN S., University Hosps., Cleveland, Ohio
hematopoiesis..erythropoiesis inhibitors; chloramphenicol; iron; toxicology; antibiotics; antimetabolites; muscle relaxants..anticonvulsants; proteins; cell components.. ribosomes

HE-04016 ROBERTS, PHYLLIS S., Med. Col. Virginia, Richmond, Va.
blood coagulation..plasminogen; glycerin; streptokinase; blood coagulation..plasmin; esterases; blood..plasma; ethylene glycol

HE-04061 ACKERMAN, G. ADOLPH, Sch. Med., Ohio Univ. Res. Fdn., Columbus, Ohio
cell differentiation: hematopoiesis: leukemia

HE-04117 **NORMAN, PHILLIP S., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
blood coagulation..fibrinolytic drugs; blood coagulation.. plasmin; blood coagulation..plasminogen; blood proteins.. serum proteins; enzymes inhibitors..antiplasmin; plasminokinases..urokinases

HE-04167 **TROUP, STANLEY B., Sch. Med., Univ. Rochester, Rochester, N.Y.**
adenosine triphosphate; blood cells..thrombocytes; blood coagulation..thrombin; calcium; magnesium; membrane permeability; phospholipids; potassium

HE-04277 **WRIGHT, IRVING S., Col. Med., Cornell Univ., N.Y.C.**
arteries..aorta; atherosclerosis; blood coagulation; blood coagulation..anticoagulants; cerebrovascular disorders; longitudinal study; pancreas; pregnancy; rheumatic heart diseases; thromboembolism; thrombophlebitis

HE-04347 **WEINER, MURRAY, Goldwater Mem. Hosp., New York, N.Y.**
hypoprothrombinemia; therapy; blood coagulation..anticoagulants; blood coagulation..prothrombin

HE-04366 **ROBBINS, KENNETH C., Michael Reese Res. Fdn., Chicago, Ill.**
blood coagulation..plasmin; blood coagulation.. plasminogen; plasminokinases..urokinases; glycerin; blood coagulation..anticoagulants; blood coagulation fibrinolysis; immunology..antibodies

HE-04385 **LOEWY, ARIEL G., Haverford Col., Haverford, Pa.**
blood coagulation..fibrin; blood coagulation..fibrinase

HE-04398 **SAUTTER, JAY H., Col. Vet. Med., Univ. Minnesota, St. Paul, Minn.**
aplastic anemia; blood cells..lymphocytes; dichlorovinylcysteine; kidney; kidney function; lymph

HE-04418 **AMBRUS, JULIAN L., Roswell Park Mem. Inst., Buffalo, N.Y.**
blood coagulation..plasmin; cerebrovascular disorders; cooperative study; coronary occlusions and thrombosis; plasminokinases..urokinases; therapy; thrombophlebitis

HE-04516 **OLVER, CLARENCE P., Grad. Sch., Univ. Texas, Austin, Tex.**
blood cells..erythrocytes; reductases..glutathione reductase; diabetes; 6--phosphogluconolactone; schizophrenia; gout; oxidoreductases..glucose--6--phosphate dehydrogenase

HE-04541 **FESSAS, PHAEDON, Alexandra Hosp., Athens, Greece**
hemoglobin-H; genetics; hemoglobinopathy; geographical sites..Greece; thalassemia; congenital abnormalities; infant human

HE-04586 **BONSIGNORE, ARTURO, Sch. Med., Univ. Genoa, Genoa, Italy**
transferases..transketolase; transferases..transaldolase; pentose phosphates; pentoses; favism; blood cells.. erythrocytes; pyridine nucleotides; radiolabeled carbon; glucose phosphates; membrane permeability and transport; glucose; gluconates; methylene blue

HE-04612 **ERSLEV, ALLAN J., Jefferson Med. Col., Philadelphia, Pa.**
cell differentiation; cobalt; erythropoietin; hematopoiesis.. erythropoiesis; oxygen tension; uremia

HE-04613 **TSALTAS, THEODORE T., Jefferson Med. Col., Philadelphia, Pa.**
blood coagulation; lipemia; proteases..papain

HE-04706 **GERALD, PARK S., Children's Hosp. Med. Ctr., Boston, Mass.**
chemical structure; genetics; hemoglobin

HE-04712 **BARNHART, MARION I., Sch. Med., Wayne State Univ., Detroit, Mich.**
cytology; blood proteins; blood coagulation..prothrombin; blood coagulation..fibrinogen; blood coagulation..factor VIII; bone marrow; liver; blood cells..leukocytes; blood coagulation..factor V; blood coagulation..plasminogen

HE-04728 **IACONO, JAMES M., Cincinnati Gen. Hosp., Cincinnati, Ohio**
blood cells..thrombocytes; blood disorders; emulsions; fats; phospholipids; thrombasthenia

HE-04793 **COPLEY, ALFRED L., New York Med. Col., N.Y.C.**
basement membrane; blood coagulation..fibrinolysis; blood flow; blood vessels; bradykinin; endothelium permeability; scurvy; surface properties

HE-04842 **LANCHANTIN, GERARD F., Cedars Lebanon Hosp., Los Angeles, Cal.**
blood coagulation..prothrombin; immune sera; instrumentation--methodology; ultracentrifugation

HE-04843 **SHINOWARA, GEORGE Y., New York Univ. Med. Ctr., N.Y.C.**
blood cells; blood coagulation; blood coagulation..factor V; blood coagulation..prothrombin; blood coagulation.. thrombin; blood coagulation..thromboplastin; blood transfusion; chemical structure; cyclic compounds; cytology; hemolytic anemia; hemorrhage; lipoproteins; pancreatitis; phospholipids; pigments; sickle cell anemia; thrombosis

HE-04872 **KUTT, HENN, Sch. Med., Cornell Univ., New York, N.Y.**
blood proteins; lipoproteins; contrast media; iodine

HE-04877 **JAQUES, LOUIS B., Sch. Med., Univ. Saskatchewan, Saskatoon, Canada**
2--phenyl--1,3--indandione; blood coagulation..factor VII; hemorrhage; stress; blood coagulation..anticoagulants; bishydroxycoumarin; ascorbic acid; adrenal cortex hormones; adrenalectomy; hypophysectomy; tranquillizers; hypnotics and sedatives

HE-04889 **SLOTTA, KARL H., Sch. Med., Univ. Miami, Miami, Fla.**
blood coagulation..plasminogen; blood coagulation.. thromboplastin; blood proteins; chemical structure; phospholipids; proteolysis

HE-04909 **THORSEN, H. GUNNAR R., Karolinska Inst. Med. Sch., Stockholm, Sweden**
blood cells..erythrocytes; stabilizers; liver function; hemagglutination; bacteria..Staphyloccus aureus; surface properties; water-electrolyte balance; cell aggregation; suspensions (chemistry)

HE-04931 **MATOTH, YEHUDA, Sharon Hosp., Petah Tiqvah, Israel**
erythropoietin; cell division..mitosis; bone marrow; polycythemia; radiolabeled iron; blood cells..erythroblasts; anemia

HE-04932 **PIRKLE, HUBERT C., Univ. Louisville, Louisville, Ky.**
blood cells..thrombocytes; blood coagulation..thromboplastin; calcium; thrombosis

HE-04964 **MUSTARD, JAMES F., Ontario Vet. Col., Guelph, Ontario, Canada**
phospholipids; blood coagulation; atherosclerosis; diet; blood cells..thrombocytes; blood coagulation..anticoagulants; hypocholesteremia

HE-04965 **MORELL, SAMUEL A., Milwaukee Blood Ctr., Milwaukee, Wis.**
thiols; blood cells..erythrocytes; tissue respiration; radiolabeled carbon; oxygen transport; hemoglobin; cysteine; Bohr effect

HE-04967 **NEWCOMB, THOMAS F., Col. Med., Univ. Florida, Gainesville, Fla.**
biological compounds preparation; blood cells..thrombocytes; blood coagulation..prothrombin; blood coagulation.. thrombin; blood coagulation..thromboplastin; diagnostic tests; hemolytic anemia; heparin; immunology..complement; oxygen consumption; thrombosis

HE-05003 **JOHNSON, ALAN J., New York Univ. Med. Ctr., New York, N.Y.**
enzymes inhibitors; blood coagulation..fibrinogen; blood coagulation..fibrinolysis; blood coagulation..plasmin; plasminokinases; blood cells..thrombocytes; uterus.. myometrium contraction; blood cells; glycerin; blood coagulation..factor VIII; epsilon--aminocaproic acid; body fluids; teratogenic agents; von Willebrand's disease; thrombasthenia; collagen; adenosine diphosphate; serotonin

HE-05004 **TAYLOR, WILLIAM J., Col. Med., Univ. Florida, Gainesville, Fla.**
sickle cell anemia; blood; hydrogen-ion concentration; electrolytes; oxygen; hemoglobin; molecular structure; deer

HE-05006 **GREENWALT, TIBOR J., Milwaukee Blood Ctr., Inc., Milwaukee, Wis.**
blood groups..rare blood groups; blood cells..erythrocytes; blood cells..thrombocytes; hemagglutination; immunology.. antibodies; chemical structure; erythroblastosis fetalis; thrombocytopenia; genetics; radiolabeled carbon; radiolabeled phosphorus; glycolysis

HE-05008 **SPITTEL, JOHN A., JR., Mayo Assn., Rochester, Minn.**
blood coagulation..factor VIII; blood coagulation.. thromboplastin; diagnostic tests; pulmonary arterial occlusions; thrombosis

HE-05079 **MURRAY, MARVIN, Louisville General Hospital, Louisville, Ky.**
blood coagulation..fibrin; blood coagulation..fibrinogen; blood coagulation..thrombin; blood coagulation..vasculokinase; blood vessels; chemical structure; thrombosis

HE-05140 **HUME, MICHAEL, Sch. Med., Yale Univ., New Haven, Conn.**
blood coagulation..fibrinolysis; thrombosis; diagnostic tests; radiolabeled iodine; embolism; thrombolysis

HE-05141 **SEEGERS, WALTER H., Col. Med., Wayne State Univ., Detroit, Mich.**
acetylation; epsilon-aminocaproic acid; aminopterin; blood..plasma; blood coagulation..anticoagulants; blood coagulation..factor IX; blood coagulation..fibrinolysis; blood coagulation..thrombin; hemorrhagic disease

HE-05146 **SOKOLOW, MAURICE, Sch. Med., Univ. California, San Francisco, Cal.**
blood coagulation; blood coagulation..fibrinolysis; blood coagulation..plasmin; blood coagulation..plasminogen; enzymes inhibitors..antiplasmin; epsilon-aminocaproic acid; euglobulin; exercise; ischemia; proteases; streptokinase

HE-05147 **MILLER, SHERWOOD P., Maimonides Hosp., Brooklyn, N.Y.**
blood coagulation..factor VIII; hemophilia; diagnostic tests; genetics..heterozygotes; blood coagulation.. prothrombin; blood coagulation..factor V; globulins; disease transmission

HE-05168 **HUISMAN, TITUS H.J., Med. Col. Georgia, Augusta, Ga.**
hemoglobin; myoglobin; hemoglobinopathy; infants, human

HE-05169 **GIBBON, JOHN H., Jr., Jefferson Med. Col., Philadelphia, Pa.**
electrolytes; blood preservation; ion exchange resins; hydrogen--ion concentration; blood transfusion

HE-05193 **JONES, JACK C., Col. Agr., Univ. Maryland, College Park, Md.**
blood cells; blood volume; phagocytosis; hematology

HE-05228 **SWENSON, MELVIN J., Col. Vet. Med., Iowa State Univ., Ames, Iowa**
blood volume; blood..plasma; blood cells..erythrocytes; hemoglobin; diet; age; radiolabeled chromium; Evans blue

(contd)

HEMATOLOGY (CONTD)

HE-05279 SANDBERG, HERSCHEL, Philadelphia Gen. Hosp., Philadelphia, Pa.
atherosclerosis; blood coagulation..fibrinogen; cell components; esterases; blood coagulation..plasmin; streptokinase; plasminokinases..urokinases; therapy; enzymes inhibitors..antiplasmin; enzymes inhibitors..antiplasminogen; thromobembolism

HE-05280 POOL, JUDITH G., Sch. Med., Stanford Univ., Palo Alto, Cal.
hemophilia; blood coagulation..factor VIII; immune sera; liver; coumarins; vitamin K; reticuloendothelial system; tritium; styrene; blood proteins..plasma proteins; blood coagulation..factor VII; blood banks

HE-05341 KRIVIT, WILLIAM, Univ. Minnesota, Minneapolis, Minn.
endotoxins; anaphylaxis; blood coagulation..plasminogen; blood vessels prosthesis; viscosity; blood..plasma; blood coagulation; thrombosis; blood coagulation..fibrinogen

HE-05351 MOHN, JAMES F., Sch. Med., State Univ. New York, Buffalo, N.Y.
blood groups..blood group A; blood groups..blood group M; immunology..antigens; immunology..antibodies; immunology..Rh antibodies; blood cells..erythrocytes; body fluids; serology; ethnic groups..Negroes; genetics

HE-05411 SOULIER, JEAN P., Centre Natl. Transfusion Sanguine, Paris, France
blood..plasma; blood coagulation; blood coagulation.. factor VIII; blood coagulation..factor IX

HE-05415 SPAET, THEODORE H., Montefiore Hosp., New York, N.Y.
blood coagulation..product I; liver; cephalins; phagocytosis; hemostasis; blood cells..thrombocytes; thrombosis

HE-05430 BENTLEY, HERSCHEL P., Jr., Univ. Alabama Med. Cr., Birmingham, Ala.
blood coagulation..thromboplastin; cholesterol; lipids; phospholipids; radiolabeled carbon; radiolabeled phosphorus

HE-05446 JACOBS, HENRY R., Sch. Med., Evanston Hosp., Evanston, Ill.
blood cells..erythrocytes; blood..plasma; blood disorders; blood flow impedance; capillaries; surface properties

HE-05448 BERNSTEIN, RALPH E., South African Inst. Med. Res., Johannesburg, South Africa
genetics; indicators; hemolysis; geographical sites.. Africa; aromatic compounds; blood cells..erythrocytes; oxidoreductases..glucose--6--phosphate dehydrogenase; glutathione; screening; thiamine; dietary deficiency; kwashiorkor; transferases..transketolase; enzymes.. isoenzymes; anemia

HE-05501 GROSSMAN, CHARLES M., Univ. Portland, Portland, Ore.
blood cells..thrombocytes; cell age; phospholipids; radiolabeled phosphorus

HE-05538 VON KAULLA, KURT N., Univ. Colorado Med. Cr., Denver, Colo.
blood coagulation; hemorrhage; heart diseases; surgery; transplantation..organ transplantation

HE-05593 ABE, TAKESHI, Sch. Med., Univ. Tokyo, Tokyo, Japan
blood coagulation..fibrinolytic drugs; blood coagulation.. fibrinolysis; hemorrhage; hypersensitivity; reproductive system, female

HE-05652 PERKINS, HERBERT A., Irwin Mem. Blood Bank, San Francisco, Cal.
blood preservation; blood coagulation..anticoagulants; heart surgery; blood transfusion

HE-05698 ADAMIS, DIONYSIOS M., St. Elizabeth's Hosp., Wellesley, Mass.
therapy; thrombosis; bacteria..Pseudomonas; enzymes; blood coagulation..anticoagulants; blood coagulation.. fibrinolysis; radiolabeled

HE-05724 BRANEMARK, PER-INGVAR, Univ. Gothenburg, Gothenburg, Sweden
blood circulation dynamics; bone; bone marrow; capillaries; ear; endothelium; joint capsule; mast cells; regeneration; skin

HE-05732 SCOTT BLAIR, GEORGE W., Natl. Inst. Res. in Dairying, Reading, Berks, England
blood flow; blood coagulation; blood coagulation..fibrin; blood cells..erythrocytes; elasticity; viscosity

HE-05769 RACHMILEWITZ, M., Hebrew Univ., Hadassah Med. Sch., Jerusalem, Israel
vitamin B12; hemorrhage; anemia; kidney; liver; bone marrow

HE-05780 GIBLETT, ELOISE R., Sch. Med., King Co. Blood Bank, Seattle, Wash.
blood proteins; fetus; genetics; immunology; polymorphism, biology

HE-05827 LOCKWOOD, WILLIAM R., Sch. Med., Univ. Mississippi, Jackson, Miss.
electron microscopy; blood cells..leukocytes; endothelium; blood cells..thrombocytes; injury..burns; enzymes; cell components..cell membrane; blood proteins..plasma proteins

HE-05828 SURGENOR, DOUGLAS M., Sch. Med., State Univ. New York, Buffalo, N.Y.
blood coagulation..prothrombin; calcium; blood proteins; albumins; binding; computer simulation; molecular structure

HE-05868 FISHER, LYMAN M., Med. Col. Virginia, Richmond, Va.
blood coagulation; thrombosis; diet; blood coagulation.. anticoagulants; atherosclerosis; lipids

HE-05871 RISTIC, MIODRAG, Univ. Illinois, Urbana, Ill.
blood cells..thrombocytes; rickettsia..Anaplasma marginale; blood cells..erythrocytes; immunology.. autoantigens; immunology..antibodies; fetus

HE-05882 LIPPSCHUTZ, EUGENE J., Buffalo Gen. Hosp., Buffalo, N.Y.
thromboembolism; blood coagulation..fibrinolytic drugs; dosage; enzymes; therapy

HE-05917 BERGREN, WILLIAM R., Childrens Hosp. Soc., Los Angeles, Cal.
hemoglobin; thalassemia; hemoglobinopathy; genetics

HE-05994 HOUGIE, CECIL, Grad. Sch., U.Washington, Seattle, Wash.
blood coagulation..fibrinolysis; lipids; blood coagulation..product I

HE-05995 HOUGIE, CECIL, Sch. Med., Univ. Washington, Seattle, Washington
blood coagulation..factor X; blood coagulation..factor VII

HE-05997 FUDENBERG, H. HUGH, Univ. California Med. Cr., San Francisco, Cal.
isohemagglutinogen; immunology..antibodies; ABO hemolytic disease, newborn; infants, human..newborn; genetics; immunity; breast feeding; blood..serum; chemical structure; S7 gamma globulin; S19 gamma globulin

HE-06021 TISHKOFF, GARSON H., Univ. California Med. Cr., Los Angeles, Cal.
carbohydrates; proteins; blood coagulation.. prothrombin; blood coagulation..thrombin; enzymes; coumarins

HE-06078 CARSON, PAUL E., Sch. Med., Univ. Chicago, Chicago, Ill.
cells; oxidoreductases..glucose--6--phosphate dehydrogenase; hemolysis; NADP(H2); injuries; carbohydrates metabolism disorders; diabetes; enzymes; glutathione; blood cells..erythrocytes; oxidoreductases..glutathione reductase

HE-06108 SLOVITER, HENRY A., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
blood cells..erythrocytes; lipids; membrane permeability and transport; blood cells..reticulocytes; lipogenic inhibitors; fractionation

HE-06125 CHAPMAN, ROBERT G., Sch. Med., Univ. Colorado, Denver, Colo.
carbohydrates; blood cells..erythrocytes; cell age; hemolytic anemia

HE-06126 NOYES, WARD D., Sch. Med., Univ. Florida, Gainesville, Florida
hematopoiesis, erythropoiesis; haptoglobin; iron; intestinal absorption

HE-06128 RAPAPORT, SAMUEL I., Sch. Med., Univ. Southern California, Los Angeles, Cal.
blood coagulation..activation product; blood coagulation..factor IX; calcium; blood coagulation ..thromboplastin; thrombosis; adrenal cortex hormones; steroid hormones; reticuloendothelial system; blood coagulation..anticoagulants; endotoxins; blood coagulation..thrombin; blood coagulation..factor VII

HE-06191 MERSKEY, CLARENCE, Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.
epsilon--aminocaproic acid; blood coagulation..fibrinogen; blood coagulation..fibrinolysis; thrombosis; carcinoma; blood disorders; hemagglutination; heparin

HE-06236 MOSER, KENNETH M., Sch. Med., Georgetown Univ., Washington, D.C.
bioassay; blood coagulation..fibrinogen; blood coagulation.. fibrinolytic drugs; blood coagulation..plasmin; blood coagulation..plasminogen; blood coagulation..thrombin

HE-06238 GUEST, M. MASON, Sch. Med., Univ. Texas, Galveston, Tex.
hypothermia; blood circulation dynamics; capillaries; blood cells..erythrocytes; blood cells..leukocytes; blood cells..thrombocytes; blood coagulation.. fibrinolysis; viscosity

HE-06239 MOHLER, DANIEL N., Sch. Med., Univ. Virginia Hosp., Charlottesville, Va.
adenosine triphosphate; blood cells..erythrocytes; dehydrogenases..glucose-6-phosphate dehydrogenase; glycolysis; hemolytic anemia; phosphorylation; spherocytosis..hereditary spherocytosis

HE-06241 WEED, ROBERT I., Sch. Med., Univ. Rochester, Rochester, N.Y.
blood cells..erythrocytes; cell components..cell membrane; blood disorders; ion..bivalent cations; sodium; potassium; phosphatases..adenosine triphosphatase; oxidoreductases.. glucose-6-phosphate dehydrogenase; calcium; membrane permeability and transport; magnesium; immunology..antibodies; immunology..complement; sulfhydryls

HE-06242 FINCH, CLEMENT A., Sch. Med., Univ. Washington, Seattle, Wash.
iron; intestinal absorption; hematopoiesis..erythropoiesis; bone marrow; porphyrins; globins; hemoglobin; erythropoietin

HE-06244 HUGGINS, SARA E., Grad. Sch., Univ. Houston, Houston, Tex.
hypothermia; blood volume; poikilotherms; blood proteins.. plasma proteins; hyperthermia

HE-06257 **MURRAY, RAYMOND G., Grad. Sch., Indiana Univ., Bloomington, Ind.**
blood cells..lymphocytes: tritium: thymus: intestines appendix vermiformis

HE-06270 **JENSEN, WALLACE N., Sch. Med., Univ. Pittsburgh, Pa.**
blood cells..erythrocytes; blood cells..leukocytes; blood cells..thrombocytes; cholesterol; erythroblastosis; haptoglobin; hematopoiesis..erythropoiesis; hydrogen-ion concentration; immunology..antigen-antibody reactions; immunology..isoantibodies; lipids; phospholipids; radiolabeled iodine; radiolabeled phosphorus; sickle cell anemia

HE-06423 **MERRILL, EDWARD W., Massachusetts Inst. Tech., Cambridge, Mass.**
blood..plasma: blood cells..erythrocytes: blood circulation dynamics; blood flow; cardiovascular diseases; lipids; plasma proteins

HE-06424 **WELLS, ROE E., Jr., Peter Bent Brigham Hosp., Boston, Mass.**
blood flow; blood..plasma; cardiovascular diseases; blood circulation dynamics

HE-06425 **DEUTSCH, ERWIN, Sch. Med., Univ. Vienna, Vienna, Austria**
blood coagulation..thromboplastin: blood coagulation.. antithromboplastin

HE-06474 **LUYET, BASILE J., American Fdn. Biol. Res., Madison, Wis.**
blood..plasma; blood cells..erythrocytes; blood preservation; crystallization; freeze-drying; freezing; hemolysis; ice

HE-06557 **LEROY, ELIE P., Col. Med., Univ. Illinois, Chicago, Ill.**
hemolytic anemia; polysaccharides

HE-06561 **MAHONEY, JOHN P., Carney Hosp., Boston, Mass.**
blood disorders; radiolabeled manganese; blood cells.. erythrocytes

HE-06567 **ENDE, NORMAN, Veterans Admin. Hosp., Nashville, Tenn.**
blood coagulation..fibrinolysis: cardiovascular diseases; fractionation; hemorrhage; heparin; histamine; mast cells; proteases; thoracic surgery

HE-06627 **KRAUS, LORRAINE M., Sch. Biol. Sci., Univ. Tennessee, Memphis, Tenn.**
hemoglobin; deoxyribonucleic acid; transformation

HE-06666 **MOLLIN, DAVID L., Postgraduate Med. Sch., London, England**
sideroblastic anemia; iron; blood cells..erythroblasts; pyridoxine; folic acid; genetics; family

HE-06678 **KANEKO, JIRO J., Sch. Vet. Med., Univ. California, Davis, Cal.**
porphyria; blood cells..erythrocytes; porphyrins; cell age; radiolabeled carbon; glycine; ferritin; splenectomy; iron

HE-06756 **NADELL, JUDITH, Sch. Med., Stanford Univ., Stanford, Cal.**
blood cells..erythrocytes: age: sex difference: blood groups..Rh factors; blood groups; immune sera; steroids; acetylsalicylic acid; erythroblastosis fetalis: hemolytic anemia: electrophoresis; blood cells..leukocytes; blood cells.. thrombocytes; electrodes..microelectrodes; immunology..antibodies

HE-06757 **WILLIAMS, WILLIAM J., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
blood coagulation..factor VII: blood coagulation..factor X: blood coagulation..thromboplastin; chemical structure; phospholipids: proteins

HE-06912 **ROWSELL, HARRY C., Ontario Veterinary Col., Guelph, Ont. Canada**
blood disorders: blood coagulation: genetics: vascular disorders: blood coagulation..factor IX: blood cells..thrombocytes: diet: atherosclerosis: blood coagulation..factor VII

HE-06914 **HILL, ROBERT J., Sch. Med. Sci., Univ. Tennessee, Memphis, Tenn.**
hemoglobin; hemoglobin--S; sickle cell anemia; amino acids

HE-06935 **FINK, AUSTIN I., Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.**
blood flow; eye..conjunctiva; sickle cell anemia; diagnostic tests; instrumentation-methodology; eye circulation

HE-06958 **MURRAY, RAYMOND G., Grad. Sch., Indiana Univ., Bloomington, Ind.**
blood cells..lymphocytes: blood disorders: genetics: lymph nodes: spleen: thymus

HE-06966 **GOLDSTEIN, ROBERT, New York Med. Col., N.Y.C.**
blood coagulation..factor VII; blood coagulation..factor IX; blood coagulation..factor X; blood coagulation.. thromboplastin; immune sera; immunity; immunofluorescence; immunology..antibodies; reaction sites; thrombosis

HE-06982 **HUISMAN, TITUS H.J., Med. Col. Georgia, Augusta, Ga.**
hemoglobin: oxygen transport: fetus

HE-07017 **PEARSON, HOWARD A., J. Hillis Miller Hlth. Ctr., Gainesville, Fla.**
anemia; hemoglobin; genetics..heterozygotes; hemoglobin--S; hemoglobin--C; starch gel electrophoresis; blood groups; haptoglobin; therapy

HE-07027 **FRASER, RONALD C., Univ. Tennessee, Knoxville, Tenn.**
hemoglobin; chemical structure; blood cells.. erythrocytes: cell differentiation: proteins: cell age

HE-07066 **NILSSON, B. INGA M., Sch. Med., Univ. Lund, Lund, Sweden**
hemophilia: blood coagulation..fibrinolysis: blood coagulation..factor VIII; Willebrand's disease; enzymes inhibitors..antiplasmin: pectins

HE-07085 **AUERSWALD, WILHELM, Sch. Med., Vienna Univ., Vienna, Austria**
blood..serum: blood coagulation..fibrinolysis: plasminokinases: streptokinase

HE-07114 **KNISELY, MELVIN H., Med. Col. South Carolina, Charleston, S.C.**
blood flow; hemagglutination; drugs; cinematography; injury..crush syndrome; injury..burns; blood vessels; blood flow impedance; blood flow..oscillatory blood flow

HE-07144 **TRIANTAPHYLLOPOULOS, DEMETRIOS C., Sch. Med., Univ. Alberta, Edmonton, Alberta, Canada**
blood coagulation..fibrinogen: blood coagulation.. anticoagulants; fibrogenesis; neoplastic growth; extracorporeal circulation; liver diseases; collagen diseases; immunology..antibodies; phagocytosis

HE-07162 **KLINE, DANIEL L., Sch. Med., Yale Univ., New Haven, Conn.**
blood coagulation..plasminogen; blood coagulation.. plasmin; chemical structure; streptokinase; plasmokinases..urokinase

HE-07181 **MUHRER, MERLE E., Sch. Agr., Med., Univ. Missouri, Columbia, Mo.**
hemophilia: blood coagulation..factor VIII: diet

HE-07184 **SCHWARTZ, HERBERT C., Sch. Med., Stanford Univ., Palo Alto, Cal.**
hemoglobin: synthetases..heme synthetases: heme: blood cells..leukocytes; radiolabeled iron blood cells..reticulocytes

HE-07186 **BOOKER, CLIFFORD R., Sch. Med., Howard Univ., Washington, D.C.**
thalassemia; ethnic groups..Negroes; hemoglobin; blood disorders; electrophoresis; radiolabeled; population dynamics, human; children; genetics..genes: sickle cell anemia

HE-07234 **KOCHEN, JOSEPH A., Albert Einstein Col. Med., N.Y.C.**
blood cells..erythrocytes: cell components: hemolysis: blood disorders: sickle cell anemia

HE-07235 **WOODWORTH, ROBERT C., Col. Med., Univ. Vermont, Burlington, Vt.**
binding: iron: amino acid sequence: transferrin; haptoglobin: heme-binding 81-globulin. HRG

HE-07260 **CELANDER, DAVID R., Col. Osteopathic Med. and Surg., Des Moines, Iowa**
proteins: radiolabeled selenium: radioisotopes.. selenium 75; blood coagulation; blood circulation.. fibrinolysis

HE-07275 **DIGGS, LEMUEL W., Gailor Clinic, Dept. Medicine, Memphis, Tenn.**
sickle cell anemia: kidney function: dehydratases..carbonic anhydrase: therapy: enzymes inhibitors: kidney

HE-07300 **ROSENTHAL, ROBERT L., Hosp. Joint Diseases, New York, New York**
blood coagulation: blood coagulation..anticoagulants: blood coagulation..clot retraction: blood coagulation.. factor XI; blood cells..thrombocytes: blood coagulation..fibrinogen: leukemia

HE-07326 **WAYS, PETER O., King County Hosp., Seattle, Wash.**
lipids; blood cells..erythrocytes; cell components..cell membrane; aging; diet; hormones; lipoidal diseases

HE-07346 **LICHTMAN, HERBERT C., Col. Med., State Univ. New York, Brooklyn, N.Y.**
blood cells..erythrocytes; cell age; genetics..heterozygotes; hemoglobin; hemoglobin-C; hemoglobin-F; hemoglobin-S; hemoglobinopathy; hemolysis; infectious diseases; radiolabeled chromium; radiolabeled iron; stress; thrombosis; uremia

HE-07362 **THONNARD, ERNST, St. Elizabeth's Hosp., Washington, D.C.**
hormones; blood cells..basophil leukocytes; blood cells.. leukocytes; pregnancy; estrogens; sex difference; heparin; cytology; cell age; population dynamics, cell; age

HE-07377 **STRUMIA, PAUL V., John S. Sharpe Res. Fdn., Bryn Mawr, Pa.**
blood..plasma: blood cells..erythrocytes: blood circulation dynamics; blood disorders; blood transfusion; blood preservation; blood volume; radiation counters; radiolabeled chromium: radiolabeled iodine

HE-07379 **BLOMBACK, ERIK G.B., Karolinska Inst., Stockholm, Sweden**
blood coagulation..factor VIII; hemorrhagic disease; blood coagulation..fibrinogen; peptides; therapy; blood coagulation

HE-07401 **PONDER, ERIC H., Lab. de Cytologie Sanguine de l'ecole Pratique des Hautes Etudes, Paris, France**
cell components..cell membrane: surface properties; proteins; lipids; hemolysins; instrumentation-methodology; blood cells..erythrocytes

HE-07[illegible] **REYNAFARJE, CESAR, Univ. San Marcos, Lima, Peru**
blood cells..erythrocytes; cell age; altitude; erythropoietin: radiolabeled chromium: radiolabeled iron

(contd)

HEMATOLOGY (CONTD)

HE-07418 SCHULMAN, IRVING, Col. Med., Univ. Illinois, Chicago, Ill.
adrenal cortex hormones; age; blood coagulation..factor VIII; children; dosage; endothelium permeability; hemophilia; hemorrhage; infectious diseases; therapy; venous infusions

HE-07429 BUTLER, JOHN J., Seton Hall Col. Med., Jersey City, N.J.
phagocytosis; blood cells..leukocytes; oxygen consumption; styrene; blood cells..erythrocytes; immunity; alcoholism; malnutrition; metabolic diseases; cancer; uremia; infectious diseases; bronchitis

HE-07430 TONDO, CASEMIRO V., Univ. Rio Grande do Sul, Porto Alegre, R.G.S., Brazil
laboratory facilities; hemoglobin; haptoglobin; ethnic groups..American Indians; ethnic groups..Negroes; ethnic groups..whites; genetics; geographical sites.. Brazil; hemoglobinopathy

HE-07449 BEUTLER, ERNEST, City Hope Med. Cr., Duarte, Cal.
research programs; anemia; hematopoeisis..erythropoiesis; genetics..heterozygotes; therapy; oxidoreductases..glucose-6-phosphate dehydrogenase; enzymes..isoenzymes; blood cells..erythrocytes; hemolysis; drugs; catalase; methemoglobin; intestinal absorption; iron; ferritin; sickle cell anemia; hemoglobin-F; bioassay; chloramphenicol; aplastic anemia

HE-07451 BRIEHL, ROBIN W., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
Bohr effect; conformations (chemistry); hemoglobin; hemoglobin-H; molecular shape; molecular structure; molecular weight; oxyhemoglobin

HE-07453 HAMPTON, JAMES W., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
blood coagulation..Factor VIII; electrostimulus; genetics.. heterozygotes; hemophilia; hemorrhage; nervous system.. central nervous system; veterinary medicine

HE-07457 SUNDBERG, R. DOROTHY, Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
blood vessels; bone marrow; cell components..cell membrane; cell components..mitochondria; cholesterol; cytology; dietary deficiency; fatty acids; heart; hematopoiesis; iron; liver; reticuloendothelial system; spleen

HE-07488 RABINER, S. FREDERICK, Michael Reese Hosp. Med. Cr., Chicago, Ill.
blood coagulation..fibrinolytic drugs; thrombosis; radiolabeled iodine; blood coagulation..fibrinogen; blood coagulation..plasminogen; plasmokinases..urokinases; streptokinase; blood..serum; blood coagulation..fibrin stabilizing factor; myocardial infarct; cerebroarterial occlusions and thrombosis; arterial occlusions; thrombophlebitis; therapy evaluation

HE-07489 BIRD, ROBERT M., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
blood cells..thrombocytes; blood coagulation..activation product; blood coagulation..cryofibrinogen; blood coagulation..fibrin stabilizing factor; blood coagulation.. fibrinogen; hemorrhage; thrombosis

HE-07491 NUSSBAUM, MURRAY, Seton Hall Col. Med., Jersey City, N.J.
bioassay; blood coagulation..fibrin stabilizing factor; cancer; dysproteinemia; hemorrhagic disease; leukemia; liver cirrhosis; thrombosis

HE-07494 PERKINS, HERBERT A., San Francisco Med. Soc., Irwin Mem. Blood Bank, San Francisco, Cal.
blood preservation; blood transfusion; fever; immunology.. iso-antibodies; leuko-agglutinins; pregnancy

HE-07495 POULIK, MIROSLAV D., Child Res. Cr., Detroit, Mich.
children; blood proteins..serum proteins; blood disorders; liver disease; kidney disorders; endocrine glands disorders; gamma globulin; ceruloplasmin; immunology..antibodies; chemical structure; cell components; immunofluorescence; lymph nodes; spleen

HE-07496 CORWIN, ALSOPH H., Sch. Philosophy, Johns Hopkins Univ., Baltimore, Md.
blood coagulation..anticoagulants; blood coagulation.. fibrinogen; blood coagulation..prothrombin; blood coagulation..thrombin; casein; hydrolysis; ricin; toluene sulfonyl arginine methyl ester; toxicology

HE-07499 BOTTOMLEY, SYLVIA S., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
anemia; bone marrow; blood cells..erythrocytes; heme; globins; hemoglibin; uremia; infectious diseases; ligases

HE-07542 STOHLMAN, FREDERICK, Jr., St. Elizabeths Hosp., Brighton, Mass.
anemia; blood cells..erythroblasts; blood cells..erythrocytes; bone marrow; cell age; cell division..mitosis; cell volume; erythropoietin; hematopoiesis..erythropoiesis; hypoxia; radiation effects; radiolabeled iron; regeneration; tritium

HE-07565 RAFELSON, MAX E., Jr., Presbyterian-St. Luke's Hosp., Chicago, Ill.
blood cells..leukocytes; blood cells..thrombocytes; cell components..cell membrane; electron microscopy; carbohydrates; lipids; proteins; enzymes; phagocytosis; actomyosin; blood coagulation..clot retraction; molecules.. macromolecules; binding; serotonin; thyroxine

HE-07585 SGOURIS, JAMES T., Michigan Dept. Hlth., Lansing, Mich.
biological compounds preparation; blood coagulation.. plasmin; fractionation; gamma globulin; immunodiffusion test; immunology..antibodies; molecular size

HE-07616 PERILLIE, PASQUALE E., Sch. Med., Yale Univ., New Haven, Conn.
blood cells..erythrocytes; hemoglobins; hydrogen-ion concentration; hyperosmolarity; kidney disorders; oxygen tension; sickle cell anemia; temperature; viscosity

HE-07652 JANDL, JAMES H., Boston City Hosp., Boston, Mass.
hemolytic anemia; blood cells..erythrocytes; cell age; aging; membrane permeability; immunology; reticuloendothelial system; transferrin; sulfhydryls; glycolysis

HE-07683 KEIGHLEY, GEOFFREY L., Grad. Sch., California Inst. Tech., Pasadena, Cal.
erythropoietin; blood cells..erythrocytes; chemical structure; anemia; cooperative study

HE-07703 LANCHANTIN, GERALD F., Cedars Lebanon Hosp., Los Angeles, Cal.
blood coagulation; blood coagulation..prothrombin; blood coagulation..thrombin; blood coagulation..fibrinogen; thromboembolism; hemorrhagic disease

HE-07710 RIESER, PETER, Sch. Med., Univ. Louisville, Louisville, Ky.
amino acids; molecular structure; blood cells..erythrocytes; cell components..cell membrane; monosaccharides; binding; proteins; lipids; radiolabeled carbon; insulin; muscles; diabetes

HE-07756 SCHNEIDER, ARTHUR S., Veterans Admin. Cr., Los Angeles, Cal.
blood cells..erythrocytes; hemolytic anemia; carbohydrates metabolism disorders

HE-07759 HEYSSEL, ROBERT M., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
blood cells..thrombocytes; cell age; radiolabeled carbon; radiolabeled sulfur; radiolabeled phosphorus; serotonin; blood coagulation..clot retraction

HE-07804 KWAAN, HAU C., J.F. Mitchell Fdn. Inst. Med. Res., Washington, D.C.
blood coagulation..fibrinolysis; lysokinase; ascites; endothelium

HE-07807 PERT, JAMES H., American Natl. Red Cross, Washington, D.C.
blood cells..erythrocytes; blood preservation; freezing; glucose; lactose; albumins; PVP; glycerin

HE-07856 HATCH, FRED E., Jr., Col. Med., Univ. Tennessee, Memphis, Tenn.
hemoglobin-S; hypoxia; kidney disorders; kidney function; sickle cell anemia

HE-07919 DEANE, NORMAN, New York Med. Col., N.Y.C.
blood cells..erythrocytes; edema (generalized); heart diseases; liver diseases; lung disease; osmotic pressure

HE-08012 SANTOS-BUCH, CHARLES A., Sch. Med., Emory Univ., Atlanta, Ga.
blood vessels; injury; hypertension (systemic); cardiovascular diseases; blood proteins..plasma proteins; gamma globulin; arteritis

HE-08028 SALZMAN, EDWIN W., Massachusetts Gen. Hosp., Boston, Mass.
arteriosclerosis; thrombosis; hemorrhage; blood cells ..thrombocytes; adhesion; blood coagulation..anticoagulants; adenosine triphosphate; serotonin; von Willebrand's disease

HE-08081 EDGINGTON, THOMAS S., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
mitogenic factor, phytohemagglutinin; beans; cell division; blood cells..lymphocytes

HE-08089 DULFANO, MAURICIO J., Boston City Hosp., Boston, Mass.
blood cells..erythrocytes; lung disease; lung bronchi; inflammation; hypoxia; blood volume; cytology

HE-08090 KUBES, ZDENEK, Seton Hall Col. Med., Dent., Jersey City, N.J.
blood coagulation..fibrinolysis; blood coagulation.. thromboplastin; epsilon-aminocaproic acid; heparin; pregnancy..postpartum; pregnancy toxemias and hypertension..eclampsia; therapy evaluation

HE-08097 WORTH, MELVIN H., Jr., New York Univ. Med. Cr., N.Y.C.
blood coagulation..fibrinolysis; cell components..lysosomes; extracorporeal circulation..heart-lung bypass; carbohydrases..β-glucuronidase; phosphatases; trasylol; epsilon-aminocaproic acid; immunity; streptokinase; enzyme inhibitors

HE-08129 PEDEN, JAMES C., Jr., Sch. Med., Washington Univ., St. Louis, Mo.
blood coagulation..activation product; blood coagulation.. factor V; blood coagulation..factor X; blood coagulation.. prothrombin; calcium; enzymes; phospholipids; sedimentation constants; venoms

HE-08135 PATE, JAMES, Col. Med., Univ. Tennessee, Memphis, Tenn.
hemagglutination; blood vessels; kidney function

HE-08241 TALBOTT, G. DOUGLAS, American Med. Res. Fdn. Facilities, Dayton, Ohio
angina pectoris; arterial infusions; blood cells.. erythrocytes; carbon dioxide tension; carbon monoxide; cell aggregation; cottonseed oil; dead space; dextran; emulsions; hypercholesteremia; hyperlipemia; hypoxia; oxygen tension; pulmonary diffusion

HE-08259 GIBSON, JOHN G., II, Harvard Med. Sch., Boston, Mass.
blood cells..erythrocytes; blood coagulation..anticoagulants; blood preservation; dimethyl sulfoxide; freezing; glycerol; glycolysis; immunology..antigens; ion exchange; membrane permeability

HE-08309 MAMMEN, EBERHARD F., Col. Med., Wayne State Univ., Detroit, Mich.
blood coagulation..factor VIII; blood..plasma; amino acids; chemical structure--biological activity; immunofluorescence; hemophilia

HE-08341 HAUT, ARTHUR, Univ. Arkansas Med. Cr., Little Rock, Ark.
age; anemia; blood cells..erythrocytes; blood proteins; enzymes..isoenzymes; ethnic groups..Negroes; ethnic groups..whites; hemoglobinuria..paroxysmal nocturnal hemoglobinuria

HE-08354 KOSZEWSKI, BOHDAN J., Sch. Med., Creighton Univ., Omaha, Nebr.
blood cells..neutrophil leukocytes; catalase; cell components..granules; enzymes; hemosiderin; phagocytosis; phosphatases; radiolabeled iron; toxins; trace elements

HE-08368 HERSHGOLD, Edward J., Palo Alto Veterans Hosp., Palo Alto, Cal.
atherosclerosis; blood coagulation..fibrinogen; blood proteins; immune sera; metabolites; thromboembolism

HE-08393 GEILL, TORBEN, De Gamles By, Geriatric Dept., Copenhagen N, Denmark
aging; aldosterone; arteriosclerosis; blood cells..thrombocytes; blood coagulation..fibrinolysis; cell adhesion; diet; lipids; thrombosis; unsaturated fats

HE-08394 BROWN, MAYO E., Faulkner Hosp., Jamaica Plain, Boston, Mass.
N-acetylneuraminic acid; binding; blood coagulation.. fibrin stabilizing factor; blood coagulation..fibrinogen; blood coagulation..thrombin; carbohydrates; enzymes; heparin; molecular structure; peptides

HE-08397 SCHNEIDER, CHARLES L., Wayne County Gen. Hosp., Eloise, Mich.
pulmonary circulation; microcirculation; blood coagulation..intravascular coagulation disseminated; pregnancy..placental abruption; pulmonary arterial occlusions; histamine; serotonin; blood cells.. erythrocytes; pulmonary heart disease; hemolysis

HE-08398 PENNER, JOHN A., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
blood coagulation..activation product; blood coagulation.. prothrombin; coumarins; hemorrhagic disease; hemostasis; liver diseases; molecular structure; therapy

HE-08400 MILLER, KENT D., Division Laboratories and Res., Albany, N.Y.
blood coagulation..activation product; blood coagulation.. prothrombin; blood coagulation..thromboplastin; calcium; chemical structure--biological activity; functional groups; ion exchange

HE-08401 MERTZ, EDWIN T., Sch. Agr., Purdue Univ., Lafayette, Ind.
amino acid sequence; blood coagulation..plasminogen; chemical structure--biological activity; molecular structure; molecular weight

HE-08421 ZMIJEWSKI, CHESTER M., Duke Univ. Med. Cr., Durham, N.C.
ABO hemolytic disease (newborn); blood groups..blood group A; blood groups..blood group O; column chromatography; electrophoresis; immunology..isoantibodies; pregnancy

HE-08445 BAKERMAN, SEYMOUR, Univ. Kansas Med. Cr., Kansas City, Kan.
blood cells..erythrocytes; cell age; cell components.. cell membrane; chemical structure; fractionation; morbidity; proteins

HE-08493 FINCH, STUART C., Yale Univ. Sch. Med., New Haven, Conn.
blood cells..leukocytes; blood preservation; carbohydrases..lysozyme; cell components; cell movement; hematopoiesis..leukopoiesis; immune sera; immunology..antigen-antibody reaction; leukemia.. monocytic leukemia; leuko-agglutinins; oxygen consumption; phagocytosis

HE-08498 McMILLAN, CAMPBELL W., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
blood coagulation..factor VIII; infant human.. newborn; infant animal..newborn; hemophilia; diagnostic tests; pregnancy..placental transfer

HE-08504 CRUZ, WALTER O., Instituto Oswaldo Cruz, Rio de Janeiro, Brazil
hemostasis; leg; arteries; veins; nerves..innervation; pulmonary function; blood cells; tissue respiration

HE-08530 GARDNER, FRANK H., Peter Bent Brigham Hosp., Boston, Mass.
blood cells..thrombocytes; freezing; blood preservation; dimethyl sulfoxide; septicemia; endotoxins

HE-08534 EVANS, ROBERT L., Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.
hemagglutination; viscosity; cell adhesion; blood cells.. erythrocytes; sedimentation equilibrium; biomathematics

HE-08537 GORSTEIN, FRED, Sch. Med., New York Univ., N.Y.C.
hemostasis; blood cells..thrombocytes; blood coagulation.. thromboplastin; blood coagulation..fibrinogen; blood coagulation..platelet factor 3; blood coagulation..factor VIII; blood coagulation..clot retraction; immunology..antibodies; immune sera; surface properties; molecular structures; capillaries; proteases..trypsin; adenosine triphosphate; magnesium

HE-08549 STOHLMAN, FREDERICK, Jr., St. Elizabeth's Hosp., Brighton, Mass.
biological compounds preparation; erythropoietin; anemia; thalassemia; congenital abnormalities; hematopoiesis..erythropoiesis; bioassay

HE-08566 WOHL, HERBERT, Albert Einstein Col. Med., Bronx, N.Y.
blood coagulation..factor VIII; immunity sera; reaction sites; hemophilia

HE-08598 MERRILL, EDWARD W., Massachusetts Inst. Tech., Cambridge, Mass.
instrumentation; membrane; surface properties; pump oxygenator; proteins denaturation; lipoproteins; blood coagulation; diffusion; oxygen; carbon dioxide

HE-08611 NEUSTEIN, HARRY B., Univ. California, Los Angeles, Cal.
electron microscopy; hemoglobin; kidney..renal tubules; radiolabeled

HE-08630 ALLEN, FRED H., New York Blood Cr., New York, N.Y.
blood groups; instrumentation--methodology; immunology; blood cells..erythrocytes

HE-08631 NOSSEL, HYMIE L., Mount Sinai Hosp., N.Y.C.
blood coagulation..Hageman factor; blood coagulation.. factor XI; blood coagulation..anticoagulants; blood disorders; congenital abnormalities; hemostasis; thrombosis; chemical structure--biological activity; reaction sites; surface properties; liver cirrhosis

HE-08633 BACK, NATHAN, Sch. Pharm., State Univ. New York, Buffalo, N.Y.
anaphylaxis; blood coagulation..fibrinolysis; blood coagulation..anticoagulants; polypeptides; vasoactive agents..vasodilators; drugs interaction; plasminokinases; immunology; therapy evaluation; enzymes

HE-08660 MULLER-EBERHARD, URSULA, Scripps Clinic, Res. Fdn., La Jolla, Cal.
congenital abnormalities; hemolytic anemia; thalassemia; spherocytosis; hereditary spherocytosis; sickle cell anemia; hemoglobin; metabolites; heme--binding β--1--globulin (HBG); binding; children

HE-08691 MOHN, JAMES F., Sch. Med., State Univ. New York, Buffalo, N.Y.
blood cells..erythrocytes; blood cells..reticulocytes; bone marrow; hemolytic anemia; immunity..isoimmunity; immunology..antigen-antibody reactions; immunology.. RH antibodies; phagocytosis; radiolabeled chromium; radiolabeled iron; surface properties

HE-08743 RACCUGLIA, GIOVANNI, Louisville Gen. Hosp., Louisville, Ky.
blood..plasma; blood cells..thrombocytes; blood coagulation..thromboplastin; blood preservation; hemorrhagic disease

HE-08744 HOROWITZ, HERBERT I., Bronx Hosp., Bronx, N.Y.
blood cells..thrombocytes; blood coagulation..fibrinogen; blood coagulation..thromboplastin; phospholipids

HE-08747 GOTTSCHALL, GERTRUDE Y., Mount Sinai Hosp., N.Y.C.
blood cells..leukocytes; blood coagulation; blood coagulation..anticoagulants; blood coagulation.. fibrinolysis; enzymes

HE-08757 TANAKA, KOUICHI R., Harbor Gen. Hosp., Torrance, Cal.
blood cells..erythrocytes; Coombs test; hemolytic anemia; blood cells..leukocytes; enzymes; glycolysis; spherocytosis; congenital abnormalities

HE-08774 BURKE, JACK D., Medical Col. Virginia, Richmond, Va.
blood cells..erythrocytes; inland fresh waters; oxygen; oxyhemoglobin; species

HE-08783 CHARM, STANLEY E., Tufts Univ. Med. Sch., Boston, Mass.
fats; blood..plasma; viscosity; blood flow; diet; lipoproteins..serum lipoproteins; cholesterol; phospholipids; cell aggregation; stress (mechanical)

HE-08792 ROSSI, ENNIO C., Sch. Med., Marquette Univ., Milwaukee, Wis.
blood coagulation; blood cells..thrombocytes; phosphorus; radiolabeled phosphorus; adenosine triphosphate; cell aggregation; blood preservation

HE-08832 MORGAN, THOMAS E., Jr., Sch. Med., Univ. Washington, Seattle, Wash.
membrane permeability and transport; cell components ..cell membrane; blood cells..erythrocytes; lipoproteins; electrolytes; chemical structure

HE-08863 CORN, MILTON, D.C. Gen. Hosp., Washington, D.C.
blood preservation; blood cells..erythrocytes; streptokinase; citrates; radiolabeled chromium; radioisotopes.. iodine 131

HE-08E55 DONALDSON, VIRGINIA H., St. Vincent Charity Hosp., Cleveland, Ohio
proteases; enzyme inhibitors; antiesterases; blood coagulation..plasmin; chemical structure--biological activity; polypeptides; hydrolysis; endothelium permeability; edema (generalized); eosilon--aminocaproic acid; optical density; cooperative study; immunology, complement

HE-08893 GUIDOTTI, GUIDO, Biological Lab., Harvard Univ., Cambridge, Mass.
dissociation constants; ligands; hemoglobin; oxygen; molecules..macromolecules; biomathematics; solutions association

HE-08907 SEAMAN, ARTHUR J., Univ. Oregon Med. Sch., Portland, Ore.
thrombosis; hemorrhage; retinal circulation; therapy evaluation; blood coagulation; endothelium; blood disorders

(cont'd)

HEMATOLOGY (CONTD)

HE-08955 RAAB, SPENCER, Woman's Med. Col. of Pennsylvania, Philadelphia, Pa.
blood cells..granulocytes; blood circulation dynamics; infectious diseases; hematopoiesis..leukopoiesis; leukopenia; radiolabeled phosphorus; inflammation

HE-08971 GOTTFRIED, EUGENE L., Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.
blood cells..leukocytes; cell components..cell membranes; cell types; lipids; lysolecithins; species; cytolysis

HE-09013 BROCK, WILLIAM E., Col. Vet. Med., Oklahoma State Univ., Stillwater, Okla.
hemophilia; genetic strains; congenital abnormalities; blood disorders

HE-09014 BRADLEY, THOMAS B., Jr., Albert Einstein Col. Med., Bronx, N.Y.
hemoglobin; blood cells..erythrocytes; sickle cell anemia; hemoglobin-F; hemoglobin-S; cell age; radiolabeled iron; genetics..heterozygotes; thalassemia; aplastic anemia; pernicious anemia

HE-09057 NEMERSON, YALE, Sch. Med., Yale Univ., New Haven, Conn.
blood coagulation..thromboplastin; reaction sites; immunology..antibodies; hemostasis; brain; cell components; chemical structure--biological activity; phospholipids

HE-09070 MARCUS, AARON J., New York Veterans Admin. Hosp., N.Y.C.
blood cells..thrombocytes; cell components; reaction sites; blood coagulation; thrombosis; lipids; enzymes; laboratory facilities

HE-09095 HUME, MICHAEL, Sch. Med., Yale Univ., New Haven, Conn.
thrombosis; blood coagulation..thrombic index; diagnostic tests; radiolabeled iodine; thrombophlebitis

HE-09102 ZIEVE, PHILIP D., Baltimore City Hosp., Baltimore, Md.
potassium; ion exchange and transport; blood cells..thrombocytes; blood coagulation..thrombin; binding; ouabain; 2,4--dinitrophenol; sulfhydryls inhibitors; insulin; serotonin; adenosine triphosphate; radiolabeled potassium

HE-09122 SHANBERGE, JACOB N., Evanston Hosp., Evanston, Ill.
heparin; protamines; polybrene; blood coagulation..product 1; mast cells; blood coagulation

HE-09163 SHAPIRO, SANDOR S., Jefferson Med. Col., Philadelphia, Pa.
blood coagulation..prothrombin; blood coagulation..thrombin; blood coagulation..activation product; blood coagulation..factor IX; molecular structure; genetics; hemorrhagic disease

HE-09239 GESNER, BERTRAM M., Sch. Med., New York Univ., New York, N.Y.
blood cells..lymphocytes; epithelium permeability and transport; lymphatic tissue; thoracic duct; surface properties; polysaccharides; life cycle; carbohydrases..glycosidases; perfusion; lymph nodes; phagocytosis; radiolabeled phosphorus

HE-09286 HAMMOND, DENMAN, Childrens Hosp., Los Angeles, Cal.
erythropoietin; biological compounds preparation; anemia

HE-09313 SMITH, HARRY M., Springfield Col., Springfield, Mass.
geographical sites..Asia; ethnic groups; blood groups; immunological tests; survey; genetics..population genetics, human

HE-09326 WESSLER, STANFORD, Sch. Med., Washington Univ., St. Louis, Mo.
thrombosis; thrombopoiesis stimulating factor; bioassay; blood coagulation..anticoagulants; coumarins

HE-09344 KAPLOW, LEONARD S., Veterans Admin. Hosp., West Haven, Conn.
blood cells..leukocytes; phosphomonoesterases..alkaline phosphatase; blood cells..neutrophil leukocytes; hypoxia; ultrasonics; surface active agents; radiation effects; chemotherapy

HE-09345 MUELLER, JOHN F., Brooklyn-Cumberland Med. Cr., Brooklyn, New York
phospholipids; blood cells..thrombocytes; blood disorders; fats; emulsions; thrombasthenia

HE-09418 JAMIESON, G.A., American National Red Cross, Washington, D.C.
blood coagulation..fibrin; blood coagulation..fibrinogen; blood coagulation..plasmin; blood disorders; chemical structure--biological activity; molecular size; genetic strains

HE-09433 HUSSEY, CLARA V., Milwaukee County Gen. Hosp., Milwaukee, Wis.
phospholipids; blood cells..erythrocytes; stroma; blood coagulation..thromboplastin; chemical structure--biological activity; hemolysis; hemoglobinuria..paroxysmal nocturnal hemoglobinuria

HE-09464 RIDDLE, JEANNE M., Henry Ford Hosp., Detroit, Mich.
inflammation; exudates; blood cells..leukocytes; blood cells..neutrophil leukocytes; blood cells..lymphocytes; macrophages; cell components..cell nucleus..cell components..cytoplasm; blood coagulation..fibrin; synovial fluid; joint diseases; cytology

HE-09523 BROMBERG, PHILIP A., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
oxygen transport; sickle cell anemia; polymerization; urea; hemoglobin--F; glutathione; blood cells..erythrocytes; blood vessels shunts; heart function; pulmonary function

HE-09540 WINKERT, JOHN W., State Univ. New York, Buffalo, N.Y.
erythropoietin; hematopoiesis..erythropoiesis; bone marrow; cell types

HE-09620 CLATANOFF, DALLAS V., Sch. Med., Univ. Wisconsin, Madison, Wis.
blood coagulation..intravascular coagulation disseminated; afibrinogenemia; heparin; epsilon--aminocaproic acid; thrombosis; cancer; therapy evaluation; radiolabeled iodine

HE-09631 GUEST, M. MASON, Univ. Texas Med. Br., Galveston, Tex.
microcirculation; blood flow; endothelium permeability; blood coagulation..fibrinolysis; gastrointestinal surgery; blood cells..thrombocytes; plasminokinases; molecules..macromolecules; vasoactive agents; hypercapnia; hypoxia; hemostasis

HE-09668 GALDSTON, MORTON, New York Univ. Med. Cr., New York, N.Y.
hypercapnia; hypoxia; valvular heart disorders..pulmonary valve insufficiency; microcytic anemia; cell volume; homeostasis; polycythemia; gas tensions; membrane permeability and transport; blood cells..erythrocytes

HE-09704 SCHMIDT, JOHN J., Bryn Mawr Hosp., Bryn Mawr, Pa.
adenosine triphosphate; phosphatases..adenosine triphosphatase; blood cells..erythrocytes; blood preservation; freezing; lactose; albumins; dextran; glucose

HE-09746 GRAHAM, LEONARD A., Veterans Admin. Hosp., Hines, Ill.
erythropoietin; urine; salts; proteins; carbohydrates; bactericides; N--acetylneuraminic acid; hexoses; hexosamines; nitrogen

HE-09764 TRACHT, MYRON E., Beth Israel Hosp., New York, N.Y.
blood proteins..plasma proteins; homeostasis; liver diseases; nitrogen balance; enzymes feedback

HE-10037 ALLEN, DONALD M., Boston Floating Hosp., Boston, Mass.
thalassemia; therapy evaluation; children; blood transfusion; iron; chelating agents; radioisotopes..iron 59; diethylenetriamine pentacetic acid; globins

HE-10038 THOMPSON, ROBERT B., Univ. Mississippi Med. Cr., Jackson, Miss.
phylogeny; hemoglobin; hemoglobinopathies; genetic strains; genetics..population genetics, animal; chemical structure--biological activity; altitude; oxygen consumption; geographical sites

HE-10039 KOSOWER, NECHAMA S., Albert Einstein Col. Med., Bronx, N.Y.
broad beam; hemolysis; blood cells..erythrocytes; glucose--6--phosphate dehydrogenase deficiency

HE-10040 GORMAN, JOHN G., Columbia Presbyterian Med. Cr., New York, N.Y.
hypergloburinemia; gamma globulin; immunology..agglutins; serotypes; ethnic groups..Melanesians; genetics..population genetics..human

HE-10041 JAFFE, ERNST R., Albert Einstein Col. Med., Bronx, N.Y.
methemoglobin; oxidoreductases..methemoglobin reductase; blood cells..erythrocytes; hemoglobin; pyridine nucleotides; metabolic disorders inborn; blood disorders

HE-10045 CHERNOFF, AMOZ I., Univ. Tennessee Mem. Res. Cr., Knoxville, Tenn.
thalassemia; hemoglobinopathies; hemoglobin; diagnostic tests; hemoglobin F; genetics..population genetics, human; cooperative study; therapy evaluation

HE-10046 SCHWARTZ, SAMUEL, University Hosps., Minneapolis, Minn.
bile pigments; delta--aminolevulinic acid; heme; liver disorders; porphyria; radiation effects; liver neoplasms

HE-10050 DALLMAN, PETER R., Sch. Med., Stanford Univ., Palo Alto, Cal.
cytochrome C; myoglobin; muscle contraction; kidney function; dietary deficiency; iron; congenital heart disorders; infant human..newborn; infant human..premature infant; exercise; fetus

HE-10051 SMITH, JOSEPH E., City Hope Med. Cr., Duarte, Cal.
blood cells..erythrocytes; primaquine sensitivity; drugs resistance; oxidoreductases..glucose--6--phosphate dehydrogenase

HE-10053 JACOB, HARRY S., St. Elizabeth's Hosp., Boston, Mass.
blood cells..erythrocytes; hemolysis; membrane permeability and transport; jaundice..hemolytic jaundice, hereditary; ions..cation; sodium; carbohydrates; ouabain; phosphatases..adenosine triphosphatase; splenectomy; blood preservation; diagnostic tests

NB-00264 DIAMOND, LOUIS K., Childrens Hosp. Med. Cr., Boston, Mass.
longitudinal study; hyperbilirubinemia; infant human..newborn; therapy; blood transfusion; fetus; congenital abnormalities; genetics; bacterial diseases; virus diseases; enzymes; jaundice..congenital nonhemolytic jaundice; erythroblastosis fetalis

NB-03809 CHO, MIN-HAING, State Univ. N.Y. Upstate Med. Cr., Syracuse, N.Y.
thrombolysis; blood vessels; nerves..denervation; nervous system; adrenalectomy; radiolabeled iodine; drugs; ear

GM-06392 JARCHO, SAUL, New York Academy Med., New York, N.Y.
publications..history of medicine; ecology, human; geographical sites..United States; socioculture

GM-06509 WARING, JOSEPH I., Med. Col. South Carolina, Charleston, S.C.
geographical sites..South Carolina; publications..history of medicine

GM-07199 YOUNG, JAMES H., Emory Univ., Atlanta, Ga.
drugs; food; publications..history of medicine

GM-08162 STECKERL, FRITZ, Sch. Med., Boston Univ., Boston, Mass.
publications..history of medicine; translations

GM-09132 STIEB, ERNST W., Sch. Pharm., Univ. Wisconsin, Madison, Wis.
geographical sites..Europe; publications..history of medicine; forensic medicine; drugs adulteration

GM-09214 KING, LESTER S., Col. Med., Univ. Illinois, Chicago, Ill.
publications..history of medicine

GM-09327 NORWOOD, WILLIAM F., Sch. Med., Loma Linda Univ., Los Angeles, Cal.
publications..history of medicine; education..medical education; geographical sites..United States

GM-09655 DEBUS, ALLEN G., Grad. Sch., Univ. Chicago, Chicago, Ill.
biochemistry; pharmacology; publications..history of medicine

GM-10617 WAGNER, RICHARD, Boston Floating Hosp., Boston, Mass.
publications..history of medicine; publications..biography

GM-10916 LARKEY, SANFORD V., Welch Med. Library, Baltimore, Md.
geographical sites..England; public health; publications.. history of medicine

GM-11050 MILLER, GENEVIEVE, Cleveland Med. Library Assn., Cleveland, Ohio
publications..monograph; publications..history of medicine; microcirculation; capillaries; blood flow

GM-11350 BECK, ANN F., Col. Arts, Sci., Univ. Hartford, West Hartford, Conn.
ethnic groups..British; geographical sites..Africa; medical services; public health; publications..history of medicine; social organization

GM-11991 HOLMES, FREDERIC L., Massachusetts Inst. Tech., Cambridge, Mass.
publications..history of medicine; physiology; body fluids; concepts

GM-12623 LEVEY, MARTIN, Rockefeller Inst., New York, N.Y.
translations; publications..history of medicine; pharmacology

HD-01198 CRANEFIELD, PAUL F., New York Academy Med., New York, N.Y.
publications..history of medicine; mental retardation; cretinism; schizophrenia; children; education..special classes

LM-00008 JOHNSON, ROBERT E., Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
publications..biography; travel; environment; physiology

LM-00013 ROSENBERG, CHARLES E., Univ. Pennsylvania, Philadelphia, Pa.
publications..history of medicine; publications.. literature survey; disease transmission; infectious diseases; microorganisms

LM-00015 COWEN, DAVID L., University Col., Rugers State Univ., New Brunswick, N.J.
publications..history of medicine; publications..literature survey; geographical sites..England; pharmacology

LM-00018 HAMMOND, E. ASHBY, Univ. Florida, Gainesville, Fla.
publications..history of medicine; publications.. literature survey; geographical sites..England; travel

LM-00021 JONES, RUSSELL, Westminster Col., Fulton, Mo.
publications..history of medicine; education.. medical education; ethnic groups..Americans; geographical sites..France

LM-00047 GILBERT, BENTLEY B., Colorado Col., Colorado Springs, Colo.
geographical sites..Europe; publications..history of medicine; medical insurance; travel; survey

MH-04011 RIESE, WALTHER, Box 397, Rte. 2, Francis Road, Glen Allen, Virginia
publications..history of medicine; psychiatry

MH-06286 ELLENBERGER, HENRI F., Univ. Montreal, Montreal, Quebec, Canada
psychiatry; hypnosis; publications..history of medicine; socioculture; survey

MH-06662 WINTERS, EUNICE E., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
publications..biography

MH-07428 DIETHELM, OSKAR, Payne Whitney Psychiatric Clinic, N.Y.C.
education..medical education; geographical sites..Europe; psychiatry; publications..history of medicine; publications ..literature survey; travel

MH-07788 SPIEGELBERG, HERBERT, Lawrence Col., Washington Univ., St. Louis, Mo.
psychiatry; psychology; publications..book

MH-07876 KRANTZ, DAVID L., Lake Forest Col., Lake Forest, Ill.
psychology; physiology; role; behavior; conflict; attitudes; publications..literature survey; publications..history of medicine; interviews

MH-07945 CARLSON, ERIC T., Cornell Univ. Med. Col., N.Y.C.
publications..history of medicine; mental disorders; disease classification; psychiatry

MH-10033 VEITH, ILZA, Sch. Med., Univ. California, San Francisco, Cal.
publications..history of medicine; psychiatry; socioculture; geographical sites..Asia

MH-11206 BRACELAND, FRANCIS J., Inst. Living, Hartford, Conn.
publications..biography; publications..history of medicine; psychiatry; mental hospitals

NB-02743 LINDSLEY, DONALD B., Grad. Sch., Univ. California, Los Angeles, Cal.
translations; geographical sites..USSR; neurophysiology

NB-03383 ROOFE, PAUL G., Grad. Sch., Univ. Kansas, Lawrence, Kans.
publications..biography; publications..history of medicine

NU-00107 MARSHALL, HELEN E., Grad. Sch., Illinois State Normal Univ., Normal, Ill.
publications..biography; education..nursing education; public health; publications..history of medicine

NU-00113 GOWAN, SISTER M. OLIVIA, College of St. Scholastica, Duluth, Minn.
publications..history of medicine; education..nursing education; education..universities; socioenvironment

HOSPITAL AND MEDICAL FACILITIES

HM-00235 KREIDBERG, MARSHALL B., Boston Floating Hosp., Boston, Mass.
hospitals planning; children; patient care; criteria; hospital--community relations; medical economics; education..medical education; social adjustment; social space

HM-00239 PUGH, DELBERT L., Columbus Hosp. Federation, Columbus, Ohio
hospitals planning; medical facilities planning; hospitals administration; hospitals personnel; medical services; medical economics

HM-00255 LONG, SAMUEL S., Hosp. Planning Assn., Toledo, Ohio
hospitals planning; hospital-community relations; population dynamics, human; hospitals bed capacity; hospitals admissions; survey

HM-00259 STONE, KATHRYN H., Washington Hlth. Facilities Council, Washington, D.C.
community service; medical facilities planning; geographical sites..District of Columbia

HM-00260 GRACE, WILLIAM J., St. Vincent's Hosp., N.Y.C.
research programs; patient care..home care; hospitals patients; community service; public health nurses; socioeconomics..low income groups

HM-00264 KUMAGAI, TSUTOMU, St. Paul Hosp. Coun., St. Paul, Minn.
medical facilities planning; hospital-community relations; medical economics; administration; community service; geographical sites..Minnesota

HM-00266 PARKER, RALPH C., Jr., Rochester Hosp. Council, Rochester, N.Y.
hospitals planning; geographical sites..New York

HM-00270 HOPPER, SAMUEL H., Sch. Med., Indiana Univ. Fdn. Res. Div., Bloomington, Ind.
hospitals infections; injury..surgical wounds; staphylococcal infections; air filters and filtration; ultraviolet rays; antisepsis; patient care; hospitals design

HM-00282 YOUNG, LEROY K., Sch. Business, Pub. Admin., Cornell Univ., Ithaca, N.Y.
hospitals administration; education..curriculum; mathematical models; computer programming; games theory

HM-00290 MARTIN, J. WILLIAM, Charleston Studies Fdn., Charleston, W.Va.
hospitals planning; geographical sites..West Virginia

HM-00294 ENGEL, WILLIAM, Hosp. Review, Planning Council, Western New York, Inc., Buffalo, N.Y.
hospitals planning; hospital-community relations; geographical sites..New York

HM-00296 JACO, E. GARTLY, Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.
hospitals planning; hospitals administration; medical records; hospital-community relations; geographical sites..Minnesota; socioeconomics

HM-00299 MOORE, CHARLES W., Col. Eng., Univ. California, Berkeley, Cal.
hospitals planning; hospitals design; criteria; biomedical engineering

HM-00303 STEIGER, WILLIAM A., Temple Univ. Med. Ctr., Philadelphia, Pa.
medical facilities planning; hospitals design; community service; patient care

HM-00304 PENCHANSKY, ROY, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
hospitals administration; manpower; hospitals analysis; medical economics; hospitals personnel; conferences.. workshop; travel; interviews; questionnaire; computer analysis

HM-00308 CADMUS, ROBERT R., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
hospitals planning; education..medical education; education..universities; hospitals administration; group counselling; geographical sites..North Carolina

(contd)

LISTING OF GENERAL RESEARCH AREAS

HOSPITAL AND MEDICAL FACILITIES (CONTD)

HM-00309 CHERKASKY, MARTIN, Montefiore Hosp., Bronx, N.Y.
medical facilities planning; hospitals design; hospitals..operating rooms; biomedical engineering; hospitals administration; manpower; administrative personnel; medical personnel; hospitals personnel; geographical sites..New York

HM-00312 TUNKS, OMAR A., Hlth. Fac. Planning Council, Honolulu, Hawaii
medical facilities planning; community service; longitudinal study

HM-00315 SAATHOFF, DONALD E., Hospital Planning Council, Portland, Ore.
hospitals planning; hospital--comunity relations; geographical sites..Oregon

HM-00316 WELLS, WILSON, Care-Coordinating Council, Birmingham, Ala.
medical facilities planning; geographical sites..Alabama

HM-00323 HELLER, WILLIAM M., Univ. Arkansas Med. Cr., Little Rock, Ark.
hospitals planning; biomedical engineering; hospitals design; medical economics; patient care; communication; hospitals personnel; drugs; dosage; documentation systems; employment..job satisfaction; attitude; questionnaire

HM-00328 TESTER, WILLIAM W., Col. Pharm., State Univ. Iowa, Iowa City, Iowa
hospitals analysis; medical economics; drugs; hospitals supplies; cost; patient care; dosage; hospitals personnel; hospitals space; communication; hospitals administration; documentation systems; attitude; nurses; physicians

HM-00336 THOMPSON, GUY, Community Chest and Council, Cincinnati, Ohio
medical facilities planning; hospitals analysis; patient care; hospitals utilization; community service; hospital-community relations; hospitals outpatients; computer analysis; manpower; training; population dynamics, human; information exchange; nursing homes; geographical sites..Ohio

HM-00341 CATTANEO, EVERETT G., Hosp. Planning Assn. Southern California, Los Angeles, Cal.
hospitals planning; community service; public health

HM-00351 PRICE, DEREK W., Hosp., Hlth. Facility Planning Comm. of San Diego Co., San Diego, Cal.
hospitals planning; criteria; survey; public health

HM-00352 FLYNN, ROBERT L., Hlth. Facilities Planning, Development Bd., Inc. Seattle, Wash.
hospitals planning; survey; medical records; physicians; criteria; education

HM-00369 GOTTLIEB, SYMOND R., Hospital Area Planning Committee, Milwaukee, Wis.
medical facilities planning; hospitals design; hospitals analysis; hospitals utilization; hospital--community relations; medical economics; survey; communication; geographical sites..Wisconsin

HM-00371 DORNBLASER, BRIGHT M., Franklin Co. Pub. Hosp., Greenfield, Mass.
hospitals planning; rehabilitation; aging; community service; patient care; occupational therapy; physical therapy; socioeconomics..low income groups; nursing homes; geographical sites..Massachusetts

HM-00384 JACO, E. GARTLY, Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.
hospitals analysis; medical economics; hospital--community relations; hospitals administration; cost; hospitals supplies; hospitals utilization

HM-00385 BREDESON, BRUCE E., Arrowhead Region Planning Council for Hlth. Facilities, Services, Duluth, Minn.
medical facilities planning; criteria; patient care; administrative personnel; hospitals; public health

HM-00387 JANZEN, JOHN E., Regional Hlth. Planning, South San Joaquin Valley, Visalia, Cal.
hospitals planning; medical services; socioenvironment..rural areas; geographical sites..California; hospitals analysis; hospitals utilization; medical economics; patient care; population dynamics, human; information exchange

HM-00390 HUFNAGEL, CHARLES A., Georgetown Univ. Med. Cr., Washington, D.C.
hospitals planning; medical facilities planning; hospitals design; patient care; hospitals space; hospitals utilization; hospitals administration; hospitals sanitation; medical records; documentation systems

HM-00397 DONAHER, J.C., Hosp. Planning Council of Greater Miami Valley, Dayton, Ohio
hospitals planning; community service; administrative personnel; manpower; consultation; geographical sites.. United States

HM-00399 JOHNSTON, J. HAROLD, Hlth. Facilities Planning Council for N.J., Princeton, N.J.
hospitals planning; medical services; community service; hospitals utilization; medical economics; socioenvironment..urban areas; population dynamics, human..geographical sites..New Jersey; hospital--community relations; information exchange

HM-00406 BARTSCHT, KARL G., Univ. Michigan, Ann Arbor, Mich.
hospitals planning; hospitals personnel; hospitals analysis; social organization..institutional organization; hospitals administration; medical economics geographical sites..Michigan; documentation systems; information exchange

HM-00436 ROMIENIEC, EDWARD J., Sch. Architecture, Texas AM Univ., College Station, Tex.
hospitals planning; hospitals space; hospitals design; medical economics; patient care; consultation; hospitals analysis

HM-00446 DERRY, JOHN R., California State Dept. Pub. Hlth., Berkeley, Cal.
hospitals planning; community service; hospital--community service; medical economics; socioenvironment..urban areas; socioenvironment..rural areas; documentation systems; survey; information exchange; computer programming; geographical sites..United States

HUMAN ECOLOGY

AI-04817 HORWITZ, OLE, Danish Tuberculosis Index, Copenhagen, Denmark
epidemiology; geographical sites..Denmark; information exchange; Kveim factor; longitudinal study; sarcoidosis; tuberculin sensitivity; tuberculin tests; tuberculosis

AM-01907 ROOT, HOWARD F., Diabetes Fdn., Boston, Mass.
cancer; diabetes; longitudinal study; statistics

AM-02901 JACKSON, CHARLES E., Caylor-Nickel Res. Fdn., Bluffton, Indiana
genetics..population genetics, human; survey; geographical sites..United States; metabolic disorders inborn; diagnostic tests; blood groups; hyperlipemia; hyperlipemia..hypercholesteremia; pterygium, conjunctival; color blindness; amyloidosis; porphyria acute; muscular dystrophy; hyperparathyroidism; aminotransferases..asoartate transaminase

AM-06562 MERRITT, A. DONALD, Indiana Univ. Med. Cr., Indianapolis, Ind.
pancreatic cystic fibrosis; children; survey; genetics.. population genetics, human; diabetes; diagnostic tests

AM-06928 COBB, SIDNEY, Univ. Michigan, Ann Arbor, Mich.
arthritis..rheumatoid arthritis; conflict; environment; family..marriage; family..parent-child; genetics; geographical sites..United States; interpersonal-behavior; questionnaire

AM-07216 STONE, DANIEL B., University Hospitals, Iowa City, Iowa
geographical sites..Japan; diabetes; longitudinal study; diagnostic tests; vascular disorders; atherosclerosis; lipids..serum lipids; diet; environment; epidemiology

AM-08042 LOBO, LUIZ CARLOS G., Instituto de Biofisica, Rio de Janeiro, Brazil
cretinism; goiter; trypanosomiasis; epidemiology; geographical sites..Brazil; genetics..population genetics, human; genetics..chromosomes; thyroid function; nervous system disorders; taste; amino acids; diagnostic tests; iodine; water supply; questionnaire; interviews

AP-00118 GREENBURG, LEONARD, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
air pollution; biometry; cooperative study; morbidity; mortality; socioenvironment..urban areas

AP-00181 WINKELSTEIN, WARREN, Jr., Sch. Med., State Univ. New York, Buffalo, N.Y.
air pollution; pulmonary function; morbidity; mortality; spirometry; interviews; statistics; cancer; respiratory diseases; smoking; occupations

AP-00376 LEPPER, MARK H., Col. Med., Univ. Illinois, Chicago, Ill.
air pollution; socioenvironment..urban areas; geographical sites; mortality; morbidity; statistics; respiratory diseases; pulmonary function; children; adults; education..schools; employment; chronic disease; immunology..antibodies; bacteria..Hemophilus influenzae; diagnostic tests; sputum; bronchitis

CA-03087 CLEMMESEN, JOHANNES, Finsen Institution, Copenhagen, Denmark
information exchange; geographical sites..Denmark; epidemiology; breast neoplasms; breast feeding; leukemia; cancer; longitudinal study; uterus neoplasms; uterus neoplasms..cervix neoplasms; intestinal neoplasms..colon neoplasms; intestinal neoplasms..rectum neoplasms

CA-05392 STEWART, ALICE M., Univ. Oxford, Oxford, England
children; leukemia; cancer; genetics; carcinogenesis; maternal--fetal; statistics; mongolism; x--rays; radiation effects; diagnostic tests; longitudinal study; geographical sites..England

CA-05804 HUTCHISON, GEORGE B., Harvard Sch. Pub. Hlth., Boston, Mass.
cooperative study; epidemiology; leukemia; radiation effects; radiation therapy; uterus neoplasms, cervix neoplasms

CA-05805 HUTCHISON, GEORGE B., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
cooperative study; leukemia; epidemiology; radiation therapy; radiation effects; uterus neoplasms..cervix neoplasms

CA-05806 GREEN, THOMAS H., JR., Mass. Hlth. Res. Inst., Boston, Mass.
cooperative study; epidemiology; leukemia; radiation effects; radiation therapy; uterus neoplasms..cervix neoplasms

CA-05807 GRAHAM, JOHN B., Hlth. Research, Inc., Buffalo, N.Y.
cooperative study; epidemiology; leukemia; radiation effects; radiation therapy; uterus neoplasms, cervix neoplasms

CA-05810 GARCIA, MANUEL, Charity Hosp. of Louisiana, New Orleans, La.
epidemiology; leukemia; radiation therapy; uterus neoplasms..cervix neoplasms; cooperative study; radiation effects; carcinogenesis

CA-05874 FLETCHER, GILBERT H., Univ. Texas, M.D. Anderson Hosp., Houston, Texas
leukemia; uterus neoplasms..cervix neoplasms; radiation effects; radiation therapy; dosage; cooperative study; epidemiology; bone marrow

CA-06036 GRAHAM, JOHN B., Hlth. Research, Inc., Buffalo, N.Y.
carcinogenesis; hemorrhage; menopause..postmenopause; vagina

CA-06083 MARCIAL, VICTOR A., Puerto Rico Nuclear Ctr., San Juan, P.R.
cooperative study; epidemiology; leukemia; radiation effects; radiation therapy; uterus neoplasms..cervix neoplasms

CA-06188 DUNGAL, NIEL, Iceland Cancer Soc., Reykjavik, Iceland
stomach neoplasms; epidemiology; geographical sites.. Iceland; diet; carcinogens; cooperative study; water supply; phenols; food preservation

CA-06373 MacMAHON, BRIAN, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
research programs; epidemiology; cancer; leukemia; children; pregnancy..childbirth; stomach neoplasms; geographical sites..Maine; geographical sites.. New Hampshire; geographical sites..Vermont; breast neoplasms; mongolism; siblings; twins

CA-06565 ROSE, ELIZABETH F., Rhodes Univ., Grahamstown, South Africa
epidemiology; esophagus neoplasms; ethnic groups.. Bantu; environment; radiation effects; carcinogens; water supply; diet; soil; geographical sites..Africa; crops; sex difference

CA-06626 MERRILL, JAMES A., Univ. Oklahoma Med. Ctr., Oklahoma City, Okla.
cooperative study; hematology; uterus neoplasms..cervix neoplasms; radiation therapy; radiation effects; leukemia; longitudinal study

CA-06979 CUCCIA, CARLO A., Univ. Maryland Hosp., Baltimore, Md.
leukemia; hospitals outpatients; uterus neoplasms.. cervix neoplasms; longitudinal study; travel; radiation effects

CA-07003 KEEN, PAUL, Cancer Research Unit, South African Inst., Med. Res., Hospital Hill, Johannesburg, Republic of South Africa
cancer; epidemiology; ecology, (human); carcinogens; ethnic groups..Africans; liver neoplasms; penis neoplasms; uterus neoplasms..cervix neoplasms; skin neoplasms; urinary bladder neoplasms; lung neoplasms; larynx neoplasms; melanoma; geographical sites..Africa

CA-07441 LILIENFELD, ABRAHAM M., Sch. Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
age; cooperative study; epidemiology; ethnic groups; family..marriage; geographical sites..New York; interviews; lung neoplasms; medical records; occupations; pregnancy; radiation effects; sex difference; smoking; socioenvironment

CA-07513 DAVIES, DEAN F., Francis Delafield Hosp., N.Y.C.
lung neoplasms; neoplasms classification; adenocarcinoma; squamous cell carcinoma; smoking; interviews; hospitals patients; respiratory diseases; survey; bronchogenic carcinoma; epidermoid carcinoma

CA-07588 MANCUSO, THOMAS F., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
nervous system neoplasms; epidemiology; geographical sites..United States; medical records; environment; occupational hazards; statistics

CA-08234 TERRIS, MILTON, New York Med. Col., New York, N.Y.
epidemiology; uterus neoplasms..cervix neoplasms; circumcision; carcinoma

CA-09263 WINSHIP, THEODORE, Washington Hosp. Ctr., Washington, D.C.
carcinoma; thyroid neoplasms; children; longitudinal study; pregnancy; lactation; radiation effects

CA-09683 RUBIN, ALAN, Hosp. of Univ. Pennsylvania, Philadelphia, Pa.
cancer; family; genetics; breast neoplasms

CA-09741 SPRATT, JOHN S., Jr., Sch. Med., Washington Univ., St. Louis, Mo.
intestinal neoplasms..colon neoplasms; biometry; computer; therapy evaluation; gastrointestinal surgery; neoplastic growth

CA-09751 MUSTACCHI, PIERO, Children's Hosp., San Francisco, Cal.
epidemiology; leukemia; geographical sites..California; lymphoma; cerebral palsy; population dynamics, human; myeloma, bone marrow..multiple myeloma; polymyelitis; biometry

CA-09808 EISENBERG, HENRY, Connecticut State Dept. Hlth., Hartford, Conn.
epidemiology; cancer; longitudinal study; eye neoplasms; skin neoplasms; melanoma; intestinal neoplasms..colon neoplasms; intestinal neoplasms..rectum neoplasms; surgery; breast neoplasms; ovary neoplasms; leukemia; children; geographical sites

CC-00006 CHAPMAN, JOHN S., Southwestern Med. Br., Univ. Texas, Dallas, Tex.
bacteria..mycobacteria (atypical); family; socioeconomics; longitudinal study; tuberculin tests; environment

CC-00028 GOLDFIELD, MARTIN, N.J. State Dept. Hlth., Trenton, N.J.
vaccines..poliomyelitis live vaccine; bacteria; morbidity; sewage; attenuation, microorganisms; disease transmission; community; viruses..adenoviruses; viruses..enteroviruses; streptococcal infections; respiratory diseases; bacteria.. Salmonella; epidemiology

CC-00071 TOP, FRANKLIN H., Col. Med., State Univ. Iowa, Iowa City, Iowa
epidemiology; leptospirosis; geographical sites.. Iowa; serotypes; preventive medicine; diagnostic tests; animal husbandry; water supply

CC-00091 KUNIN, CALVIN M., Sch. Med., Univ. Virginia, Charlottesville, Va.
urinary tract disorders; children; epidemiology; proteinuria; glycosuria; bacteriuria; pyelonephritis; longitudinal study; socioenvironment; socioeconomics; age; biometry; computer analysis; sex difference

CC-00114 NEWELL, KENNETH W., Sch. Med., Tulane Univ., New Orleans, La.
anaphylaxis; immunology..antigen-antibody reactions; bacteria..Bordetella pertussis; endotoxins; lipopolysaccharides; reaction sites; adjuvants; reticuloendotheliosis; tissue; immunology..antibodies; fractionation

CD-00001 SIEGEL, MORRIS, Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.
epidemiology; lupus erythematosus; ethnic groups..racial types; socioeconomics; morbidity; serology; age; immunology; mortality

CD-00004 LILIENFELD, ABRAHAM M., Sch. Hygiene, Johns Hopkins Univ., Baltimore, Md.
epidemiology; colitis..ulcerative colitis; proctitis; enteritis; age; sex difference; ethnic groups..race; stress socioenvironment

CD-00030 UHR, JONATHAN W., Irvington House Inst., N.Y.C.
rheumatic fever; streptococcal infections; antibiotics; children..adolescence; longitudinal study

CD-00043 COHEN, BERNICE H., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
longevity; mortality; family; genetics; blood groups; anthropometry; smoking; habit; psychological tests; diagnostic tests; interviews; questionnaire; phenylthiourea; taste; longitudinal study; medical records; death certificates

CD-00051 FELDMAN, ROBERT, Kaiser Fdn. Hosp. Okland, Calif.
diabetes; epidemiology; diagnostic tests; therapy evaluation; hypoglycemic agents; tolbutamide; phenethylbiguanide; insulin; fatty acids

CD-00058 CROMBIE, DONALD L., Col. General Practitioners, Birmingham, England
glucose tolerance; diabetes; glycosuria; diagnostic tests; morbidity; longitudinal study; aging; obesity; genetics..population genetics, human; geographical sites..England

CD-00135 WINKELSTEIN, WARREN, Jr., Sch. Med., State Univ. New York, Buffalo, N.Y.
epidemiology; chronic disease; socioenvironment.. urban areas; cardiovascular diseases; cerebrovascular disorders; respiratory diseases; air pollution; smoking; occupations; blood pressure; coronary disease; arteriosclerosis; sex difference; pregnancy loss; mortality; statistics; genetics; longitudinal study

CH-00052 FRIIS, HENNING, Danish Natl. Inst., Copenhagen, Denmark
survey; aging; socioeconomics; isolation; cooperative study; longitudinal study; geographical sites..Denmark

CH-00054 SHANAS, ETHEL, Univ. Chicago, Chicago, Ill.
survey; aging; socioeconomics; isolation; cooperative study; geographical sites.. United States; family; socioenvironment; public health

CH-00074 HAUSER, PHILIP M., Univ. Chicago, Chicago, Illinois
epidemiology; mortality; socioeconomics; ethnic groups; geographical sites; occupations

CH-00109 ZIMMER, BASIL G., Brown Univ., Providence, R.I.
geographical sites..United States; socioenvironment.. urban areas; socioeconomics; criteria; population dynamics, human; documentation systems; ethnic groups; education; occupations

CH-00129 TOWNSEND, PETER B., Sch. Ec., Univ. Essex, Essex, England
mental health; social adjustment; aging; social service; socioeconomics; isolation; hospitals patients; geographical sites..England; geographical sites..Denmark; geographical sites..United States

CH-00144 WESTOFF, CHARLES F., Princeton Univ., Princeton, N.J.
conferences..international meetings; population dynamics, human; travel

CH-00154 GITTELSOHN, ALAN, Sch. Hygiene, Johns Hopkins Univ., Baltimore, Md.
documentation systems; statistics; population dynamics, human; computer analysis; medical records; instrumentation--methodology; mortality; congenital abnormalities

DE-01729 MERRITT, A. DONALD, Indiana Univ. Med. Ctr., Indianapolis, Ind.
genetics; environment; dentition; ethnic groups..American Indians; migrants (sociological)

(contd)

HUMAN ECOLOGY (CONTD)

DH-00010 RICHARDS, LLOYD F., California State Dept. Pub. Hlth., Berkeley, Cal.
fluorides; water supply; climate; dental caries; children; dental structure..enamel

EF-00060 GEZON, HORACE M., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
bacteria..Staphylococcus; disease transmission; hospitals ..nursery; infant human..newborn

GM-05900 FEDERER, WALTER T., Col. Agr., Cornell Univ., Ithaca, N.Y.
biometry; body weight; genetics; hematocrit; immunology.. antibodies; maternal-fetal; ovum; pregnancy..placental transfer; statistics; trichostrongyloidosis; vaccination

GM-08682 PUFFER, RUTH R., Pan American Hlth. Orgn., Washington, D.C.
epidemiology; mortality; adults

GM-09923 CASSEL, JOHN, Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.
blood pressure; blood sugar; cholesterol; concept; diet; ethnic groups..American Indians; glycosuria; hospitals utilization; medical services; morbidity; mortality; smoking; social change; socioculture; values

GM-10452 KARLIN, SAMUEL, Univ. Stanford, Stanford, California
biomathematics; mathematical models; genetics; deoxyribonucleic acid-transformation; carcinogenesis; growth; radiation effects; computer analysis; bacteria

GM-10525 NEYMAN, JERZY, Col. Letters, Sci., Univ. California, Berkeley, Cal.
research programs; public health; statistics; mathematical models; epidemiology; screening; drugs; carcinogenesis; genetics; Parkinson's disease

GM-11268 PARRISH, HENRY M., Sch. Med., Univ. Missouri, Columbia, Mo.
epidemiology; poisoning; morbidity; mortality; reptiles

GM-11803 WHITE, COLIN, Sch. Med., Yale Univ., New Haven, Conn.
children; genetics..population genetics, human; geographical sites..Utah; sex difference; siblings; statistics; twins

GM-12872 TERRIS, MILTON, New York Med. Col., New York, N.Y.
sarcoidosis; epidemiology; geographical sites..New York; migrants (sociological); occupations; environment; tuberculosis

GM-13436 SHEPS, MINDELL C., Columbia Univ., New York, N.Y.
survey; reproduction; statistics; mathematical models; population dynamics, human; pregnancy; family..parents; family..marriage; infant human..newborn; children; age; fertility; computer analysis

HD-00017 WINKELSTEIN, WARREN, Jr., State Univ. New York, Buffalo, N.Y.
coronary diseases; pregnancy loss; endocrine glands; hypothyroidism; leuko-agglutinins; menopause..postmenopause; blood pressure; cholesterol; diabetes; carbohydrates; metabolic diseases; smoking

HD-00045 LEDERBERG, JOSHUA, Sch. Med., Stanford Univ., Palo Alto, Cal.
reproduction; statistics; family..marriage; pregnancy.. childbirth; seasonal variation; fertility; mental retardation; socioeconomics; computer analysis

HD-00362 FIERRO-BENITEZ, RODRIGO, Escuela Politecnica Nacional, Quito, Ecuador, S.A.
epidemiology; geographical sites..Ecuador; goiter; thyroid function; cretinism; iodine; diet; deaf--mutism; altitude; protein--bound iodine; immunology..autoantibodies

HD-00461 CRUMP, E. PERRY, Meharry Med. Col., Nashville, Tenn.
longitudinal study; growth; children; ethnic groups..Negroes; nutrition; socioeconomics; family; psychological tests

HD-00492 ASCOLI, WERNER, Inst. Nutrition, Guatemala City, Guatemala, C.A.
diarrhea; children; geographical sites..Central America; epidemiology; public health; sanitation; malnutrition; viruses..enteroviruses; bacteria..enterobacteria

HD-00535 CHANG, K.S. FRANCIS, Univ. Hong Kong, Hong Kong
anthropometry; children; ethnic groups..Chinese; growth; longitudinal study; socioeconomics

HD-00601 BOYD, EDITH, Sch. Med., Child Res. Council, Denver, Colo.
growth; children; anthropology; biometry; publications.. book

HD-00603 BRESLER, JACK B., Grad. Sch., Boston Univ., Boston, Mass.
blood groups; intelligence tests; neuromuscular disorders; mortality; family..parents; congenital abnormalities; longitudinal study; children

HD-00609 GOLDBERG, DAVID, Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
pregnancy..childbirth; family..marriage; family..divorce; illegitimacy; socioenvironment..urban areas; ethnic groups..race; fertility; questionnaire; geographical sites..United States

HD-00771 SHEPS, MINDEL C., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
fertility; mathematical models; biomathematics; genetics

HD-00773 SLATER, BASIL C.S., Col. General Practitioners, Records, Statistical Unit, Harborne, Birmingham, England
pregnancy; pregnancy loss; drugs; teratogenic drugs; morbidity; congenital abnormalities; geographical sites.. Europe; survey

HD-00862 LISKER, RUBEN, Hosp. de Enfermedades de la Nutricion, Mexico, D.F.
ethnic groups..Mexican Indians; ethnic groups..Negroes; ethnic groups..Mestizos; hematology; genetics; blood groups; hemoglobin-S; oxidoreductases..glucose-6-phosphate dehydrogenase; blood cells..erythrocytes; socioenvironment; malaria; geographical sites..Mexico; statistics; haptoglobin; transferrin; choline esterases.. pseudocholine esterase

HD-01638 DAY, ROBERT W., California State Dept. Pub. Hlth., Berkeley, Cal.
epidemiology; mongolism; statistics; socioenvironment; geographical sites..California

HE-01891 THOMAS, CAROLINE B., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
hypertension (systemic); coronary disorders; genetics; psychology; family; obesity; diabetes; blood pressure; heart rate; smoking; stress; exercise; nutrition; body build; cholesterol; epidemiology; prediction; longitudinal study; psychological tests

HE-02653 TEJADA, CARLOS, Inst. Nutrition Central America, Panama, Guatemala City, Guatemala, Central America
atherosclerosis; lipids..serum lipids; coronary diseases; geographical sites..Central America; socioeconomics; lipemia; cholesterol; diet; arteries..aorta; arteries.. coronary arteries; heart weight

HE-02692 SPAIN, DAVID M., Beth-El Hosp., Brooklyn, N.Y.
atherosclerosis; body build; occupations; blood pressure; diabetes; age; body weight; smoking; family; environment; triglycerides; lipids

HE-03688 TAYLOR, HENRY L., Sch. Pub. Hlth., Univ. Minnesota Minneapolis, Minn.
exercise; coronary diseases; obesity; blood..serum; cholesterol; blood pressure; respiration; habit; occupations; smoking; family; mortality; longitudinal study

HE-03262 BARROW, J. GORDON, Georgia Dept. Pub. Hlth., Atlanta, Ga.
atherosclerosis; diet; epidemiology; ethnic groups; lipids.. serum lipids; medical records

HE-03341 HAMES, CURTIS G., Evans Co. Hlth, Dept., Claxton, Ga.
atherosclerosis; blood coagulation; diet; epidemiology; ethnic groups..Negroes; ethnic groups..Whites; geographical sites..Georgia; potassium; sodium

HE-04020 PERERA, GEORGE A., Col. Phys., Surg., Columbia Univ., New York, N.Y.
hypertension (systemic); family; behavior; genetics; socioeconomics; blood pressure

HE-04040 BOYLE, EDWIN, Jr., Med. Col. South Carolina, Charleston, S.C.
cardiovascular diseases; atherosclerosis; geographical sites..South Carolina; ethnic groups..Negroes; ethnic groups..whites; survey; genetics; occupations; smoking; diet; electrocardiography; coronary diseases; exercise; radiography; hypertension (systemic); glucose tolerance; cholesterol; triglycerides; proteins; electrophoresis

HE-04087 CHAPMAN, JOHN M., Sch. Pub. Hlth., Univ. California, Los Angeles, Cal.
epidemiology; coronary diseases; age; blood pressure; cholesterol; body weight; socioeconomics; family; longitudinal study; cerebrovascular disorders; hypertension (systemic); exercise

HE-04180 McKUSICK, VICTOR A., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
myocardial infarct; epidemiology; family; genetics; age; smoking; arteries..coronary arteries; thromboangiitis obliterans

HE-05025 EISENBERG, HENRY, Conn. Dept. Hlth., Hartford, Conn.
coronary diseases; myocardial infarct; siblings; medical records; interviews; family

HE-05794 SHAPIRO, SAM, Hlth. Ins. Plan Greater New York, New York, N.Y.
coronary diseases; age; sex difference; socioeconomics; ethnic groups; smoking; myocardial infarct; angina pectoris; longitudinal study; epidemiology

HE-06023 COHEN, BERNICE H., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
aging; environment; family; genetics; longevity; mortality; socioeconomics

HE-06090 ARAVANIS, CHRIST, Soc. Atherosclerosis, Athens, Greece
age; cardiovascular diseases; diet; exercise; geographical sites..Greece; longitudinal study; medical records; occupations; smoking; socioculture

HE-07366 VIEL, BENJAMIN, Sch. Med., Univ. Chile, Santiago, Chile
atherosclerosis; geographical sites..Chile; epidemiology; socioeconomics; socioenvironment; occupations; smoking; alcoholism

HE-07543 BASSETT, DAVID R., The Queen's Hosp., Honolulu, Hawaii
myocardial infarct; arteriosclerosis; ethnic groups.. Polynesians; ethnic groups..Filipinos; ethnic groups.. Japanese; ethnic groups..Chinese; geographical sites.. Hawaii; diet; fatty acids; lipids..serum lipids; smoking; body weight; family; socioenvironment; hematology; epidemiology

HE-07544 EISENBERG, HENRY, Connecticut State Dept. Hlth., Hartford, Conn.
cholesterol; blood pressure; electrocardiography; information exchange; twins; family..parents; genetics; blood groups; socioenvironment; diet; age

HE-07796 HINKLE, LAWRENCE E., Jr., Cornell Univ. Med. Col., New York, N.Y.
coronary diseases; myocardial infarct; social status; psychological tests; social adjustment; body position; diet; exercise; personality

HE-08022 MOSBACH, ERWIN H., Pub. Hlth. Res. Inst. City of New York, Inc., New York, N.Y.
ethnic groups..Negroes; ethnic groups..whites; age; sex difference; adults; cholesterol; blood cells..erythrocytes; fatty acids; cholestanol

HE-08206 MARKS, RENEE U., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.
autopsy; sociaculture; family; attitude; hospitals patients; death; social psychology; anthropology

HE-08356 SARTWELL, PHILIP E., Sch. Hygiene, Publ. Hlth., Johns Hopkins Univ., Baltimore, Md.
respiratory diseases; epidemiology; sex difference; socioeconomics; seasonal variation; air pollution; smoking; computer; longitudinal study; geographical study..United States; geographical sites..England

HE-08481 EPSTEIN, FREDERICK H., Sch. Pub. Hlth., Univ. Mich., Ann Arbor, Mich.
cardiovascular diseases; diagnostic tests; epidemiology; geographical sites..United States; information exchange; survey

HE-09302 TING, NONG, National Defense Med. Cr., Taipei, Taiwan, China
cardiovascular diseases; epidemiology; geographical sites..Asia; socioeconomics

HE-09303 ALEXANDER, E. RUSSELL, Sch. Med., Univ. Washington, Seattle, Wash.
cardiovascular diseases; ethnic groups..Chinese; socioeconomics; diet; exercise; epidemiology; pulmonary heart disease; hypertension (systemic); myocardial ischemia and hypoxia

MH-05375 THOMAS, DOROTHY S., Univ. Pennsylvania, Philadelphia, Pa.
age; geographical sites..New York; hospitals admissions; mental disorders; migrants (sociological); sex difference; socioculture; socioeconomics

MH-06599 PUGH, THOMAS F., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
aging; alcoholism; attitudes; brain disorders; cerebrovascular disorders; community; depression; family..marriage; hospitals admissions; hospitals release; industry; marginal groups; mental disorders; mental hospitals; migrants (sociological); population dynamics (human); schizophrenia; socioeconomics

MH-06622 ODEGARD, ORNULV, Sch. Med., Univ. Oslo, Oslo, Norway
longitudinal study; epidemiology; psychoses; geographical sites..Norway; socioenvironment; genetics; therapy; interviews; medical records; computer analysis

MH-06729 Van ARSDOL, MAURICE D., Jr., Youth Studies Cr., Univ. Southern California, Los Angeles, Cal.
cooperative study; family; geographical sites..California; juvenile delinquency; population dynamics (human); socioenvironment; survey

MH-07734 LEMKAU, PAUL V., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
psychoses; dietary deficiency; proteins; epidemiology; geographical sites..Europe; pellagra; pregnancy; neuroses; cooperative study

MH-07970 LEMKAU, PAUL V., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
psychoses; schizophrenia; epidemiology; geographical sites..Yugoslavia; community; interviews; questionnaire; travel

MH-08763 PUGH, THOMAS F., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
schizophrenia; children; psychiatric patients; mental hospitals; illegitimacy; genetics; socioenvironment; hospitals patients; medical records; survey; statistics

MH-11112 KITANO, HARRY H., Sch. Social Welfare, Univ. California, Los Angeles, Cal.
mental disorders; ethnic groups..Japanese--Americans; migrants (sociological); social adjustment; family; community service; interviews; travel; psychotherapy

NB-04182 OSTFELD, ADRIAN M., Sch. Med., Univ. Illinois Chicago, Ill.
epidemiology; cerebrovascular disorders; medical records; psychometrics; aging; smoking; cholesterol; geographical sites..Illinois; brain disorders; glucose tolerance

OH-00162 PUDDU, VITTORIO, Centro per le Malattie Cardiovascolari di Roma, Rome, Italy
age; cooperative study; coronary diseases; geographical sites..Italy; mortality; occupations; socioeconomics; statistics

OH-00174 DENSEN, PAUL M., New York City Dept. Health, New York, N.Y.
respiratory diseases; chronic disease; epidemiology; cardiovascular diseases; pulmonary function; environment; air pollution; smoking; occupations; mortality; longitudinal study

RH-00210 HEMPELMANN, LOUIS H., Sch. Med., Univ. Rochester, Rochester, N.Y.
radiation effects; x-rays; neoplasms; thymus neoplasms; leukemia; blood donors; nasopharynx hyperplasia;

RH-00303 HEYSSEL, ROBERT M., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
radiation effects; radiolabeled iron; maternal-fetal; carcinogenesis; congenital abnormalities; morbidity; mortality; longitudinal study; children

HUMAN EMBRYOLOGY AND DEVELOPMENT

AI-01995 HOOD, MARION W., Charity Hosp., New Orleans, La.
Listeria infections; geographical sites..Louisiana; pregnancy..perinatal; pregnancy..abortion; pregnancy..premature delivery

AI-02235 CHANY, CHARLES, Hospital Saint Vincent de Paul, Paris, France
viruses..measles virus; toxoplasmosis; congenital abnormalities; pregnancy..perinatal; immunological tests; serology; longitudinal study; epidemiology; interferons; hemagglutination

AI-02864 MARION, G.B., Grad, Sch., Kansas State Univ., Manhattan, Kans.
bacteria; death; embryo; immunology..antigen-antibody reactions; pregnancy..postpartum; uterus

AI-05553 QUINLIVAN, W.L.G., Magee Womens Hosp., Pittsburgh, Pa.
gamma globulin; gastrointestinal system; immunology; maternal-fetal; milk; pregnancy..placental transfer; primates..monkeys; radioisbeled iodine

AM-00654 ASLING, C. WILLET, Grad. Sch., Univ. California, Berkeley, Cal.
skeleton; calcium; pregnancy; lactation; parathyroid hormones; manganese; dietary deficiency; bone disorders; blood circulation dynamics; infant animal..newborn; growth hormones; thyroid gland; radiolabeled iodine; age

AM-03313 KENNAN, ALFRED L., Sch. Med., Univ. Wisconsin, Madison, Wis.
acid-ammonia ligases..L-glutamate:ammonia ligase (ADP); blood vessels shunts..portacaval shunt; cholesterol; diabetes..alloxan diabetes; fatty acids; fetus; insulin; liver; nitrogen; peptides; pregnancy..implantation; proteins

AM-03806 JONES, GEORGEANNA S., Johns Hopkins Hosp., Baltimore, Md.
reproductive system; enzymes; steroids; carbohydrates; ovary; testis; freezing; cryostat; Krebs cycle; lactates; succinic acid; dehydroepiandrosterone; pregnenolone; chorionic gonadotropins; phosphomonoesterases..acid phosphatase; adrenal glands; oxidoreductases..dehydrogenases; oxidoreductases..glycerophosphate dehydrogenase; esterases; proteases..aminopeptidase; carbohydrases ..beta--glucuronidase

AM-04224 LOWENSIN, JEROLD M., Children's Hosp., San Francisco, Cal.
thyroid hormones; pregnancy; binding; cell

AM-05179 ALLEN, WILLARD M., Sch. Med., Washington Univ., St. Louis, Missouri
ovary; polycystic ovary; radiolabeled carbon; gonadotropins; dehydroepiandrosterone; steroid hormones

AM-05203 FOOTE, W. DARRELL, Agr. Expti. Station, Univ. Nevada, Reno, Nev.
FSH; LH; ovulation inhibitors; pituitary gland; progesterone

AM-05473 JONES, BARBARA, West Virginia Univ. Med. Cr., Morgantown, W.Va.
bilirubin; infant animals..newborn; glucuronic acid; conjugates; enzymes inhibitors; glucose; uridinediphosphoglucosiduronic acid; steroid hormones

AM-05546 WARREN, JAMES C., Sch. Med., Univ. Kansas, Kansas City, Kans.
androgens; androstenedione; blood; estrogens; ovary; pregnancy..placenta; progesterone; radiolabeled

AM-05654 KNOBIL, ERNST, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
maternal-fetal; primates..monkeys; pregnancy..placental transfer; prolactin; hormones; amino acid

AM-05668 GREEN, JAMES A., Sch. Med., Univ. Missouri, Columbia, Mo.
gonadotropins; ovary; polycystic ovary

AM-05903 SMITH, ELIZABETH K., Children's Orthopedic Hosp., Seattle, Wash.
hydrocortisone; infants, human..premature infants; diabetes; 17-hydroxycorticosteroids; hyaline membrane disease, pulmonary; pregnancy

AM-06807 HUGHES, EDWARD C., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
carbohydrates; glycogen; enzymes; transhydrogenases; phosphorylases..glycogen phosphorylase; estrogens; uterus..endometrium; menstrual cycle; uridine diphosphate glucose; pregnancy..abortion; Krebs cycle; fertility; carbohydrates metabolism disorders

AM-06913 NOALL, MATTHEW W., Col. Med., Baylor Univ., Houston, Tex.
ovary; polycystic ovary; androgens; androstenedione; testosterone; virilism; estrogens; ovarian medullectomy; therapy

AM-06976 NALBANDOV, ANDREW V., Univ. Illinois, Urbana, Ill.
ovulation; LH; pituitary gland; cell components..granules; neurosecretion; pituitary gland..median eminence; brain.. hypothalamus; photosensitivity; starvation; hypophysectomy; pituitary gland..ectopic pituitary; adrenal cortex hormones; sex hormones; ovary..corpus luteum; ovary.. Graafian follicle

(contd)

LISTING OF GENERAL RESEARCH AREAS

HUMAN EMBRYOLOGY AND DEVELOPMENT (CONTD)

AM-07065 HOLYOKE, EDWARD A., Col. Med., Univ. Nebraska, Omaha, Nebr.
spleen; embryology; blood vessels

AM-07833 DONALDSON, WILLIAM E., Scott Hall, North Carolina State Col., Raleigh, N.C.
chick embryo; diet; fatty acids; maternal-fetal; radiolabeled carbon

AM-07840 BERNSTEIN, JAY, Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
congenital abnormalities; urinary tract disorders; histogenesis; kidney; nephrotoxins; teratogenic agents; infant animals..newborn

AM-07883 KAUFMAN, NATHAN, Duke Univ. Med. Cr., Durham, N.C.
ferritin; fetus; growth; heme; hemosiderin; infants, animals; intestinal absorption; iron; lactation; maternal-fetal; pregnancy..placental transfer; radiolabeled iron; transferrin

AM-09658 BELT, DUANE W., Sch. Med., Tufts Univ., Boston, Mass.
ovary..corpus luteum; cell components..mitochondria; lipids; estrus; ovary..Graafian follicle; LH

CA-00429 VAN WAGENEN, G., Yale Univ. Sch. Med., New Haven, Conn.
carcinogenesis; primates..Macaca mulatta; longitudinal study; ovary neoplasms; gonadectomy; implants; spleen; liver; ovary; testis; estrogens; x-rays; radiation effects; dosage; reproduction; gonadotropins

DE-01824 BAWDEN, JAMES W., Sch. Dent., Univ. North Carolina, Chapel Hill, N.C.
pregnancy..placental transfer; calcium; fluorides; maternal-fetal

DE-02025 ANGELONE, LUIS, Sch. Dent., Washington Univ., St. Louis, Mo.
cleft palate; connective tissue; cortisone; deoxyribonucleic acid; embryology; enzymes; hexosamines; hydroxyproline; implants; palate; proteins

GM-04433 CRELIN, EDMUND S., Sch. Med., Yale Univ., New Haven, Conn.
connective tissue; bone transplantation; bone..pelvic bone; collagen; ground substance; sex hormones; joint stress; sex difference; fetus; dimorphism (biology); cartilage transplantation; joints

GM-05784 HOLM, LOUIS W., Sch. Vet. Med., Univ. California, Davis, Cal.
adrenal glands; cattle; endocrine glands; fetus; maternal-fetal; pituitary gland; pregnancy..prolonged pregnancy; progesterone

GM-06815 NELSON, LEONARD, Emory Univ., Atlanta, Ga.
spermatozoa motility; phosphatases..pyrophosphatase; phosphatases..adenosine triphosphatase; zinc; cell components..flagella

GM-06843 GLASS, LAUREL E., Sch. Med., Univ. California, San Francisco, Cal.
embryology; cytology; immunofluorescence; molecules.. macromolecules; maternal-fetal; ovary; ovum

GM-06880 FREUND, MATTHEW J., New York Med. Col., N.Y.C.
adrenal glands; pituitary gland; radiation effects..whole body radiation; radiation protection; semen; testis disorders

GM-07108 NABER, EDWARD C., Col. Agr., Ohio State Univ., Columbus, Ohio
antimetabolites; congenital abnormalities; dietary deficiency; growth; histogenesis; nutrients; vitamin analogs

GM-07120 HOPWOOD, M.L., Colorado State Univ. Res. Fdn., Fort Collins, Colo.
amino acid; ascorbic acid; fructose; gonadectomy; nitrogen; semen; spermatozoa; testosterone; vasectomy

GM-07184 KENT, HARRY A., Jr., Grad. Sch., Univ. Georgia, Athens, Ga.
ovary..Graffian follicle; ovum; cell components..cell nucleus; FSH; LH; progestins; estrogens; fertility

GM-07888 KAUFFMAN, SHIRLEY L., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
urethan; embryology; cell division..mitosis; spinal cord; cytology; cell migration; tritium; congenital abnormalities; sulfhydryls; narcotics; carcinogens; deoxyribonucleic acid

GM-08131 SMITHBERG, MORRIS, Univ. Minnesota, Minneapolis, Minn.
teratogenic agents; tolbutamide; insulin; pregnancy; radiolabeled

GM-08167 CHANG, M.C., Worcester Fdn. Exptl. Biol., Shrewsbury, Mass.
blood cells..leukocytes; spermatozoa; uterus..endometrium; fertility; reproduction; reproductive system, female; oviducts

GM-08255 SILVER, HENRY K., Sch. Med., Univ. Colorado, Denver, Colo.
exfoliative cytology; urine; children; infants, human..newborn; pregnancy..childbirth; estrogens; bilirubin; pregnancy toxemias and hypertension

GM-08755 SPIES, HAROLD G., Grad. Sch., Kansas State Univ., Manhattan, Kans.
temperature; reproduction; pregnancy; sex hormones; ovary; oviduct

GM-08878 GIER, HERSCHEL T., Kansas State Univ., Manhattan, Kans.
ecology (animal); embryo resorption; estrus; ovary.. corpus luteum; ovulation; pregnancy..placenta; reproductive system

GM-08998 RONDELL, PAUL A., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
hydrostatic pressure; ovary..Graafian follicle; ovulation

GM-09285 ALLISTON, CHARLES W., Sch. Agr., North Carolina State Col., Raleigh, N.C.
ovum; embryology; temperature; cell culture; transplantation..heterotransplantation; embryo and placental transplantation

GM-10034 WILLIAMS, WILLIAM L., Sch. Arts, Sci., Univ. Georgia, Athens, Ga.
fertility; spermatozoa; oviduct; uterus; fertilization; tissue respiration; oxygen consumption; enzymes; culture media; electrophoresis; chromatography

GM-10060 WESSELLS, NORMAN K., Grad. Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.
germ layers; histogenesis; skin; tritium

GM-10263 FOOTE, ROBERT H., Col. Agr., Cornell Univ., Ithaca, N.Y.
cell age; cell division..meiosis; deoxyribonucleic acid replication; fertility; oogenesis; spermatogenesis; spermatozoa motility; tritium

GM-10282 HAFEZ, E.S.E., Sch. Agr., Washington State Univ., Pullman, Wash.
cell migration; death; diagnostic tests; electrocardiography; fertilization; fetus; gonadotropins; nutrition; ovary ..corpus luteum; ovulation..superovulation; ovum; progesterone; sex differentiation abnormalities; twins; uterus

GM-10529 CHANG, MIN C., Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
fertilization; spermatozoa; ovum; culture media; genetics, hybrids

GM-10556 YOCHIM, JEROME M., Sch. Liberal Arts, Sci., Univ. Kansas, Lawrence, Kans.
uterus; pregnancy..implantation; pregnancy..pseudopregnancy; estrone; progesterone; ovary; trauma

GM-10584 HAFS, HAROLD D., Sch. Med., Michigan State Univ., East Lansing, Mich.
spermatozoa; uterus; proteins; fertilization; estrus; fractionation; blood proteins..serum proteins

GM-10611 HILLEMANN, HOWARD H., Sch. Sci., Oregon State Univ., Corvallis, Ore.
thymidine; pregnancy..placenta; cell differentiation; cell division..mitosis; diurnal variation; tritium; connective tissue; primates

GM-10632 DIAMOND, MILTON, Sch. Med., Univ. Louisville, Louisville, Ky.
reproductive system, female; sex behavior; testosterone; estrogens; progestins; pregnancy; ovary; pregnancy.. pseudopregnancy; hysterectomy; maternal--fetal; gonadectomy; virilism; aggression

GM-10654 STALLCUP, ODIE T., Sch. Agr., Univ. Arkansas, Fayetteville, Ark.
dehydrogenases..lactate dehydrogenase; spermatogenesis; semen; spermatozoa; fertility; neoplasms

GM-10779 GILLETTE, DALE D., Col. Vet. Med., Iowa State Univ., Ames, Iowa
pregnancy; uterus..myometrium contraction; progesterone; estrogens; oxytocin; estrus cycle; epinephrine

GM-11020 WILSON, EVERETT D., Sam Houston State Teachers Col., Huntsville, Tex.
reproduction; ovariectomy; pregnancy; pregnancy..pseudopregnancy; progesterone; spermatozoa; genetics..chromosomes; thyroidectomy; adrenal cortex hormones

GM-11025 MERRILL, JAMES A., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
uterus..endometrium; endometriosis; metaplasia; transplantation..autotransplantation

GM-11035 FOOTE, WARREN C., Utah State Univ., Logan, Utah
estradiol; ovary..corpus luteum; ovulation; estrus cycle; species; dosage; progesterone; LH; pituitary gland; FSH

GM-11129 SCHULTZE, ANDREW B., Grad. Sch., Univ. Nebraska, Lincoln, Neb.
estrogens; uterus; vagina; stimulants; estrus cycle; criteria; fertility; pregnancy

GM-11130 MENGE, ALAN C., Col. Agr., Rutgers State Univ., Sussex, N.J.
immunology..antigens; antifertility factors; reproductive system, female; spermatozoa; semen; immunological tests; fetus

GM-11232 PORTER, CHARLES W., San Jose State Col., San Jose, Cal.
congenital abnormalities; fertility; immunology..antigen-antibody reactions; maternal-fetal; ovum; pregnancy.. abortion; pregnancy..placenta; transplantation..heterotransplantation; transplantation..homotransplantation

GM-11238 WENGER, BYRON S., Grad. Sch., Col. Arts, Sci., Univ. Kansas, Lawrence, Kans.
cell differentiation; criteria; enzymes; genetics; metabolites

GM-11396 BLANDAU, RICHARD J., Sch. Med., U. Washington, Seattle, Wash.
blood vessels; epithelium; germ cells; histogenesis; ovary

GM-11436 MURPHREE, R.L., Univ. Tennessee, Knoxville, Tenn.
cell age; embryo; estrus; fertility; fertilization; mortality; ovum

GM-11484 **JOLLIE, WILLIAM P., Sch. Med., Tulane Univ., New Orleans, La.**
colloids: pregnancy..placental transfer: tritium

GM-11503 **WILLIAMS, WALTER F., Col. Agr., Univ. Maryland, College Park, Md.**
cell components; enzymes; progesterone; reaction sites

GM-11547 **KELLEHER, PHILIP C., Sch. Med., Univ. Vermont, Burlington, Vermont**
age: amino acid: blood proteins..serum proteins: fetus: genetics: globulins..serum globulins: immunology.. antigens: liver

GM-11568 **BOLING, JOHN L., Linfield Col., McMinnville, Oregon**
cyclic functions: electrophysiology: estrogens: estrus: muscle contraction: ovariectomy: progestins: uterus.. myometrium contraction: vagina

GM-12247 **VanDEMARK, NOLAND L., Ohio State Univ., Columbus, Ohio**
testis; temperature; hormones; stress; tissue respiration: blood flow

GM-12572 **CAVAZOS, LARRY F., Sch. Med., Tufts Univ., Boston, Mass**
reproductive system; sex hormones; seasonal variation; adrenalectomy: hypophysectomy: lipids: carbohydrates: oxidation: seminal vesicles

GM-12893 **KRUTZSCH, PHILIP H., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
testis; seminal vesicles; prostate; cyclic functions; androgens

GM-13182 **GAMBAL, DAVID, Sch. Med., Creighton Univ., Omaha, Nebr.**
testis; lipids; phospholipids; deoxyribonucleic acid; ribonucleic acid; gonadotropins; androgens; radiolabeled phosphorus; hypophysectomy

GM-13226 **AUSTIN, COLIN R., Delta Regional Primate Res. Cr., Covington, La.**
fertilization..artificial fertilization; germ cells; oogenesis; zygote cleavage; blastocyst

HD-00009 **HEGGENESS, FRANKLIN W., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.**
nutrition; age; infants..animals..newborn; heat; cold; stress; water-electrolyte balance; nerves..myelination; adrenal glands; oxygen consumption; salivary glands; blood cells..erythrocytes; homeostasis; body weight

HD-00013 **ELEFTHERIOU, BASIL E., Sch. Arts, Sci., Kansas State Univ., Manhattan, Kans.**
pregnancy..implantation; stress; environment; hormones; adrenal cortex hormones; corticosterone; estrogens; progesterone; FSH; prolactin; body fluids; brain.. hypothalamus; brain..cerebrum; brain lesions

HD-00018 **WYNN, RALPH M., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.**
pregnancy..placenta; pregnancy..implantation; electron microscopy; histogenesis

HD-00039 **FLIPSE, ROBERT J., Sch. Agr., Pennsylvania State Univ., University Park, Pa.**
amino acid; spermatozoa; fertility; radiolabeled carbon

HD-00068 **DUKES, C. DEAN, Col. Med., Baylor Univ., Houston, Tex.**
antifertility factors; immunology..antibodies; spermatozoa; semen; diagnostic tests; blood..serum; blood groups

HD-00074 **NISHIMURA, HIDEO, Faculty Med., Kyoto Univ., Kyoto, Japan**
congenital abnormalities; teratogenic agents; maternal--fetal; metabolic diseases; malnutrition; hormones; chemicals standardization; radiolabeled phosphorus; thio--TEPA; amphetamine; gold thioglucose; alloxan; tolbutamide

HD-00076 **ROCK, JOHN, Fdn. Reproductive Res., Brookline, Mass.**
reproductive system, male; spermatogenesis; spermatozoa..oligospermia: fertility: thermoregulation: sex behavior: hormones

HD-00081 **HILL, L. LEIGHTON, Baylor Univ. Col. Med., Houston, Texa**
diarrhea; infants (human); hypernatremia; dehydration (body fluids); kidney function: kidney..renal tubular transport; water-electrolyte balance; body fluids; aldosterone

HD-00082 **FRIEDRICH, ERNST R., Sch. Med., Washington Univ., St. Louis, Mo.**
reproductive system, female: uterus..cervix: estrus: pregnancy..pseudopregnancy; pregnancy..postpartum; ovariectomy; hysterectomy; hypophysectomy; sex hormones: fetus: keratinization: mucification: ovulation inhibitors: endocrine glands disorders

HD-00083 **GRAVENSTEIN, JOACHIM S., Col. Med., Univ. Florida, Gainesville, Fla.**
congenital abnormalities; anesthetics; teratogenic agents; ether; nitrous oxide; chloroform; cyclopropane; bromo-chlorotrifluoroethane; antimitotic agents; chemical structure--biological activity

HD-00096 **LLOYD, JAMES A., Albert Einstein Med. Cr., Philadelphia, Pa.**
population dynamics..animal: growth: reproduction: endocrine glands; infants, animal; mortality; social space; sex difference; behavior; maternal behavior; lactation: socioenvironment

HD-00098 **BLATTNER, RUSSELL J., Col. Med., Baylor Univ., Houston, Tex.**
congenital abnormalities: teratogenic agents: gene: carbon: particle size

HD-00106 **PLOTZ, E. J., Albany Medical Cr. Hosp., Albany, N.Y.**
oxygen tension; fetus; maternal-fetal; arteries.. carotid arteries: uterus: pregnancy..placental abruption; hemorrhage; hypoxia; heart rate; blood pressure

HD-00109 **JOHNSON, E. MARSHALL, Col. Med., Univ. Florida, Gainesville, Fla.**
teratogenic agents: embryo: cell differentiation: congenital abnormalities

HD-00113 **BERMES, EDWARD W., Jr., St. Francis Hosp., Evanston, Ill.**
ovulation; LH; time; immunological tests; menstruation disorders; fertility; cyclic functions; body temperature

HD-00132 **DAVIES, JACK, Sch. Med., Vanderbilt Univ., Nashville, Tenn.**
ovary; ovary..corpus luteum; pregnancy..placenta; LH; chorionic gonadotropins; prolactin; estrus cycle; pituitary gland; progesterone

HD-00134 **BRADFORD, G. ERIC, Col. Agr., Univ. California, Davis, Cal.**
genetics..population genetics, animal; genetic strains; reproduction; ovulation..superovulation; pregnancy.. implantation; fetus; gonadotropins

HD-00137 **HERTIG, ARTHUR T., Sch. Med., Harvard Univ., Boston, Mass.**
electron microscopy; ovum; tissue culture; pregnancy.. placenta; carcinogenesis; ovary..Graafian follicle; organ culture; ovary..corpus luteum; cell differentiation; progesterone; estrogens; chorionic gonadotropins

HD-00151 **COLEMAN, RUSSELL D., Sch. Dent., Univ. California, San Francisco, Cal.**
congenital abnormalities; dietary deficiency; folic acid; pyrimethamine; dental structure..teeth; jaws; bone.. skull; embryology

HD-00153 **WALKER, BRUCE E., Med. Br. Univ. Texas, Galveston, Tex.**
pregnancy..amniotic fluid; embryology; harelip; cleft palate; teratogenic agents; x-rays; radiation effects

HD-00161 **MOTZKIN, SHIRLEY M., New York Univ., New York, N.Y.**
palate; cleft palate; growth; embryology; nucleic acids; mucopolysaccharides

HD-00171 **GIBSON, ROBERT D., Col. Pharm., Univ. Nebraska, Lincoln, Nebr.**
teratogenic agents; diet; palate; cell differentiation; organ culture; transparent chamber technique

HD-00178 **BURDI, ALPHONSE R., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
head; face; growth; fetus

HD-00186 **PEARSON, ANTHONY A., Sch. Med., Univ. Oregon, Portland, Ore.**
embryology; nervous system

HD-00187 **COHLAN, SIDNEY Q., New York Univ. Med. Cr., New York, N.Y.**
hypervitaminosis; vitamin A; congenital abnormalities; bone; tetracycline; thyroidectomy; vincaleukoblastine; teratogenic agents; pregnancy..placenta; cell components.. lysosomes

HD-00198 **HOLT, L. EMMETT, Jr., Sch. Med., New York Univ., N.Y.C.**
maple syrup urine disease: genetics: therapy: amino acid; diet; mental retardation; congenital abnormalities

HD-00199 **JONES, MARGARET H., Univ. California, Los Angeles, Calif.**
pregnancy: virus diseases: serology: congenital abnormalities

HD-00216 **MILLER, JAMES A., Sch. Med., Tulane Univ., New Orleans, La.**
infants, animals..newborn: infants, animals..premature infants; hypoxia neonatorum; brain ischemia and hypoxia; brain damage; carbohydrates; hypothermia; electrocardiography; oxygen consumption; hypercapnia; cardiovascular system; hearing; brain..cochlear nucleus; enzymes; electron microscopy

HD-00222 **CALDEYRO-BARCIA, ROBERTO, Faculty Med. Hospital de Clinicas, Montevideo, Uruguay**
uterus..myometrium contraction; fetus; oxygen; oxygen tension; pregnancy..perinatal; hypoxia neonatorum; nervous system..vagus nerve; atropine; heart rate; heart rhythm; pregnancy..amniotic fluid; oxytocin; primates..Macaca mulatta; pregnancy..childbirth

HD-00226 **GOODLIN, ROBERT C., Stanford Med. Cr., Palo Alto, Cal.**
infant human..newborn: instrumentation--methodology: respirators; skin respiration; nutrition; hyperbaric oxygenation; fetus; apnea; hyaline membrane disease..pulmonary; primates..monkeys

HD-00228 **MILLER, JAMES A., Jr., Sch. Med., Tulane Univ., New Orleans, La.**
hypothermia; hypercapnia; glycogen; carbohydrates; hypoxia; infants (animals) newborn

HD-00229 **HESS, MELVIN, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
uterus..endometrium; nervous system..parasympathetic nervous system; hysterectomy; nerves..denervation; neuroendocrine systems; uterus hormones; ovary; estrus; pituitary hormones; gonadotropins; cell components

HD-00235 **CORNBLATH, MARVIN, College Med., Univ. Illinois, Chicago, Illinois**
infants, human..premature infants; leucine; amino acid; hypoglycemia; blood coagulation

HD-00238 **FARELL, DAVID M., Jefferson Med. Col. Hosp., Philadelphia, Pa.**
fetus; pregnancy..childbirth; heart rate; oxytocin; pregnancy..Cesarean section; analgesics; anesthetics; blood groups..Rh factors; diabetes; instrumentation-methodology; electrocardiography

(contd)

HUMAN EMBRYOLOGY AND DEVELOPMENT (CONTD)

HD-00239 **HARNED, HERBERT S., Jr., Sch. Med., Univ. North Carolina, Chapel Hill, N. C.**
respiratory system; reflexes; infants (animals)..newborn; oxygen tension; carbon dioxide tension; acid-base equilibrium; monitoring; acidosis; hypercapnia; hypoxia; maternal-fetal; chemoreceptors; brain..respiratory center

HD-00249 **WEINTRAUB, DAVID H., Buffalo Children's Hosp., Buffalo, N.Y.**
blood coagulation..plasmin; hyaline membrane disease, pulmonary; therapy; infants, animals; nitrogen dioxide; lung..alveolus; blood coagulation..fibrinolysis; enzymes

HD-00252 **ROGERS, JAMES B., Sch. Med., Univ. Louisville, Louisville, Kentucky**
pregnancy toxemias and hypertension; genetic strains; reproductive system, female; endocrine glands; cardiovascular system; kidney; aging; congenital abnormalities; trypan blue

HD-00255 **KAHLSON, G., Univ. Lund, Lund, Sweden**
histamine; embryology decarboxylases..histidine decarboxylase; cell division..mitosis; regeneration; neoplasms

HD-00263 **CHESLEY, LEON C., Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.**
pregnancy toxemias and hypertension; body water; sodium; pregnancy; kidney function; angiotensin II

HD-00264 **HENDRICKS, CHARLES H., Univ. Hospitals of Cleveland, Cleveland, Ohio**
pregnancy..childbirth; uterus..myometrium contraction; fetus; oxytocic agents; oxytocin; immunology..antigens; electrolytes; cyclic functions

HD-00265 **CHOWN, BRUCE, Sch. Med., Univ. Manitoba, Winnipeg, Canada**
pregnancy..placental transfer; blood groups..Rh factors; immunity..isoimmunity; immunology..antibodies; erythroblastosis fetalis; infant human; hemoglobin; blood transfusion

HD-00267 **ORSINI, MARGARET W., Sch. Med., Univ. Wisconsin, Madison, Wis.**
uterus; blood vessels; pregnancy..implantation; pregnancy..placenta; endothelium permeability; sex hormones

HD-00273 **MOSEY, LOIS M., Sch. Med., Univ. Mississippi, Jackson, Miss.**
vasoactive agents..vasopressors; pregnancy toxemias and hypertension..eclampsia; chemical structure

HD-00274 **LUND, CURTIS J., Sch. Med., Univ. Rochester, Rochester, N.Y.**
Evans blue; radiolabeled chromium; blood volume; pregnancy; sex hormones; chorionic gonadotropins

HD-00275 **McGAUGHEY, HARRY S., Jr., Sch. Med., Univ. Virginia, Charlottesville, Va.**
pregnancy..placental transfer; chorion; amnion; ion exchange and transport; progesterone; cholesterol

HD-00277 **MOSSMAN, HARLAND W., Sch. Med., Univ. Wisconsin, Madison, Wis.**
pregnancy..placenta; pregnancy..implantation; fetus; reaction sites; membrane permeability and transport; chorion; uterus; ovary; fluorescent dyes; pregnancy..placental transfer; blood proteins..serum proteins; proteins; gamma globulin; mammary glands; adrenal glands; testis

HD-00296 **SIEGEL, MORRIS, State Univ. New York, Brooklyn, N.Y.**
rubella; measles; mumps; chicken pox; infectious hepatitis; congenital abnormalities; pregnancy..perinatal; mortality; longitudinal study; cooperative study

HD-00297 **WIDELOCK, DANIEL, Med. Hlth. Res. Assn., N.Y.C.**
viruses..influenza viruses; congenital heart disease; pregnancy..premature delivery; pregnancy..abortion; congenital abnormalities; survey

HD-00313 **MARKS, JAMES F., Southwestern Med. Sch., Univ. Texas, Dallas, Texas**
binding; blood cells..erythrocytes; children; genetics..trisomy; ion exchange resins; mongolism; thyroxine-binding proteins; triiodothyronine

HD-00373 **LUBCHENCO, LULA O., Univ. Colorado Med. Ctr., Denver, Colo.**
infants (human)..premature infants; nutrition; amino acid; body water; lipids..serum lipids; fatty acids; diabetes; pregnancy toxemias and hypertension; hyaline membrane disease (pulmonary); acidosis; therapy evaluation; homeostasis; bicarbonates; glucose; insulin; hypoglycemia

HD-00376 **BURCH, HELEN B., Sch. Med., Washington Univ., St. Louis, Missouri**
flavoprotein enzymes; embryology; coenzyme; galactoflavin; oxidases..xanthine oxidase; oxidases..D-amino acid oxidase; oxidases..glycolate oxidase; liver; pyridine; nucleotides; enzymes; enzymes substrate; carbohydrates; kidney; pregnancy; perinatal

HD-00377 **GRAY, DONALD J., Sch. Med., Stanford Univ., Stanford, Cal.**
limbs; osteogenesis; calcification; bone resorption; growth

HD-00378 **KAO, CHIEN-YUAN, Sch. Med., State Univ. New York, Brooklyn, New York**
hormones; uterus..myometrium; electrolytes; uterus..myometrium contraction; electrophysiology; ion exchange; ion cation

HD-00381 **KAGAN, BENJAMIN M., Cedars Lebanon Hosp., Los Angeles, Cal.**
body water; body weight; body build; diet; cerebrospinal fluid; milk, pregnancy..amniotic fluid; infant human..premature infants

HD-00387 **BEARD, ALICE G., Univ. Arkansas Med. Ctr., Little Rock, Ark.**
infant human..premature infants; stress; pregnancy; electrolytes; glucose; hematology; psychometrics

HD-00389 **BROWN, AUDREY K., Sch. Med., Univ. Virginia, Charlottesville, Va.**
detoxication; infant animals..newborn; glucuronic acid; conjugates; bromsulphalein; glutathione; liver function; infant animals..premature infants; oxidation; blood cells..erythrocytes; bilirubin; hyperbilirubinemia; drugs; hypophysectomy

HD-00390 **LITTLE, A. BRIAN, Boston City Hosp., Boston, Mass.**
progesterone; aldosterone; steroid hormones; metabolites; reproduction; pregnancy..placenta; oxidoreductases

HD-00392 **SPIES, HAROLD G., Grad. Sch., Kansas State Univ., Manhattan, Kans.**
uterus; ovary..corpus luteum; pituitary gland; hysterectomy; estrus; pregnancy..implantation; parabiosis; hypophysectomy; sex hormones

HD-00400 **BEAUDOIN, ALLAN R., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
teratogenic agents; maternal--fetal; blood proteins..serum proteins; embryology; trypan blue; diazo compounds; 6--aminonicotinamide; therapy evaluation

HD-00401 **SEITCHIK, JOSEPH N., Sinai Hosp., Baltimore, Md.**
pregnancy toxemias and hypertension; pregnancy; body composition

HD-00405 **GOODNER, CHARLES J., King County Hosp., Seattle, Wash.**
pregnancy..placental transfer; fetus; pregnancy..placenta; glucose; glycogen; glycogenolysis; hormones; insulin; blood..plasma; liver; radiolabeled carbon; pregnancy, Cesarean section

HD-00413 **DICZFALUSY, EGON, Karolinska Inst., Stockholm, Sweden**
pregnancy..placental transfer; estrogens; conjugates; perfusion; fetus; estradiol; estriol; estrone

HD-00417 **WHARTON, LAWRENCE R., Jr., Johns Hopkins Hosp., Baltimore, Md.**
primates..monkeys; congenital abnormalities; reproductive system; 19--norethisterone; pregnancy

HD-00419 **MONIE, IAN W., Univ. California Med. Ctr., San Francisco, Cal.**
congenital abnormalities; maternal--fetal; dietary deficiency; folic acid; folic acid antagonists; nucleic acids; deoxyribonucleic acid; embryology

HD-00420 **BLOCH, ERIC, Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.**
fetus; androgens; testis; chemical structure; adrenal glands; pregnancy; radiolabeled carbon; tritium; steroids; ovary

HD-00427 **KUMAR, DHIRENDA, Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
progesterone; pregnancy..childbirth; uterus..myometrium; pregnancy..placenta; pregnancy..premature delivery

HD-00429 **EVERSON, GLADYS J., Col. Agr., Univ. California, Davis, Cal.**
dietary deficiency; manganese; enzymes; congenital abnormalities; inner ear disorders; nervous system disorders; bone disorders; cartilage; mucopolysaccharides; water--electrolyte balance

HD-00431 **STAVE, UWE, Sch. Med., Fels Res. Inst., Yellow Springs, Ohio**
hypoxia neonatorum; tissue; glycolysis; Krebs cycle; carbohydrates; proteins; enzymes

HD-00432 **SWENSON, ORVAR, Children's Mem. Hosp., Chicago, Ill.**
bile ducts atresia, congenital; bile ducts stenosis; regeneration; bile ducts; liver; biliary tract restoration

HD-00434 **CRUISE, MARY O., Children's Hosp., Buffalo, N.Y.**
longitudinal study; infants, human..premature infants; skeleton; ossification; radiography; genetics; growth

HD-00436 **CHOW, BACON F., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.**
diet; fertilization; pregnancy; lactation; infant animals; body weight; stress; behavior; hormones; malnutrition

HD-00438 **NELSON, GEORGE H., Med. Col., Georgia, Augusta, Ga.**
lipids..plasma lipids; pregnancy..placenta; pregnancy toxemias and hypertension..eclampsia; infant human..newborn; cholesterol esters; fatty acids; triglycerides; phospholipids; fractionation; cholesterol

HD-00443 **MILLER, JACK W., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
epinephrine; pregnancy..childbirth; uterus..myometrium contraction; drugs receptors; phenoxybenzamine; tritium; transferases..catechol O--methyl transferase; membrane permeability and transport; reaction sites

HD-00444 **KAYE, ROBERT, Sch. Med., Children's Hosp., Philadelphia, Pa.**
infants (human)..newborn; hypoglycemia; 17-hydroxycorticosteroids; catecholamines

HD-00445 **WOOLEVER, CHARLES A., Univ. Colorado Med. Ctr., Denver, Colo.**
menstrual cycle; sex hormones; progesterone; isotope dilution (concentration) techniques

HD-00449 **SHEPARD, THOMAS H., Univ. Washington, Seattle, Wash.**
goitrin; embryology; thyroid gland; thiourea; radiolabeled sulfur; cretinism

HD-00451 DALE, EDWIN, Col. Med., Univ. Kentucky, Lexington, Ky.
steroid hormones; fetus; sex difference; gonads; testosterone; radiolabeled carbon

HD-00457 POTTER, EDITH L., Chicago Lying-in Hosp., Chicago, Ill.
pregnancy..perinatal; fetus; mortality; embryology; pregnancy..abortion; pregnancy..placenta; blood groups; twins; infant human..newborn; congenital abnormalities; kidney disorders; zygote cleavage; liver diseases; virus diseases; statistics; lung; growth; ovary; ethnic groups.. whites; ethnic groups..Negroes

HD-00459 PLENTL, ALBERT A., Sch. Phys. Surg., Columbia Univ., New York City, N.Y.
pregnancy..placental transfer; metabolites; primates.. Macaca mulatta; radiolabeled carbon; tritium; pregnancy..amniotic fluid; swallowing; urination; fetus; radiolabeled chromium; blood cells..erythrocytes; cell age; amino acid

HD-00462 DANCIS, JOSEPH, New York Univ. Med. Cr., N.Y.C.
pregnancy..placental transfer; proteins; binding; estrogens; maple syrup urine disease; decarboxylation; ketoacids; skin; dysautonomia familial

HD-00464 HEUSER, CHESTER H., Med. Col. Georgia, Augusta, Ga.
embryology

HD-00466 WEIL, ALFRED J., Bronx Lebanon Hosp. Cr., Bronx, N.Y.
immunology..antigens; reproductive system, male; immunity; spermatozoa; seminal vesicles; semen; poisons; fertility

HD-00467 FRIEDMAN, MAX M., Bronx Lebanon Hosp., New York, N.Y.
enzymes; Krebs cycle; cell components..mitochondria; fractionation; infants (animals)..newborn

HD-00469 LANDAU, RICHARD L., Sch. Med., Univ. Chicago, Chicago, Ill.
spermatozoa..oligospermia; endocrine glands; genetics; radiolabeled carbon; testosterone; testis disorders; progesterone; aldosterone; pregnancy

HD-00470 PAGE, ERNEST W., Univ. California Med. Cr., San Francisco, Cal.
pregnancy..placental transfer; amino acid; isomers; pregnancy..placenta; estrogens; progesterone; radiolabeled carbon; proteases..aminopeptidase; proteases oxytocinase

HD-00472 SWEAT, MAX L., Col. Med., U. Utah, Salt Lake City, Utah
uterus..endometrium; progesterone; muscle; skin; intestines; fibroblasts; growth

HD-00473 DAGG, CHARLES P., R.B. Jackson Mem. Lab., Bar Harbor, Me.
embryology; teratogenic agents; genetics; congenital abnormalities

HD-00475 CHOW, BACON F., Sch. Hyg., Pub. Hlth., Johns Hopkins U., Baltimore, Md.
vitamin B12; thyroid function; intestinal absorption; reproduction; pregnancy..placental transfer

HD-00476 CONTOPOULOS, ALEXANDER N., Sch. Med., Univ. California, San Francisco, Cal.
pregnancy..placental transfer; thyroidectomy; adrenalectomy; hypophysectomy; fetus; endocrine glands; pituitary hormones; growth hormones; maternal--fetal; pregnancy..allantoic fluid; pregnancy..amniotic fluid

HD-00481 MACLEOD, JOHN, Col. Med., Cornell Univ., N.Y.C.
spermatozoa; spermatogenesis; spermatogenic inhibitors; testis disorders; fertility

HD-00482 FALKNER, FRANK, Sch. Med., Univ. Louisville, Louisville, Ky.
twins; longitudinal study; genetics; maternal-fetal; psychological tests; child development; pregnancy.. perinatal

HD-00488 FREUND, MATTHEW J., New York Med. Col., N.Y.C.
semen; fertility; uterus..myometrium contraction; spermatozoa motility

HD-00491 GUSBERG, SAUL B., Mt. Sinai Hosp., N.Y.C.
longitudinal study; twins; pregnancy..perinatal; pregnancy ..childbirth; anesthesia; pregnancy..placenta; infant human ..newborn; uterus..myometrium; electrodes..microelectrodes

HD-00498 STRAUSS, LOTTE, Mount Sinai Hosp., N.Y.C.
infants, human..newborn; pregnancy..placenta; pregnancy toxemias and hypertension..eclampsia; pregnancy..placental disorders; maternal-fetal; twins; trophoblast; electron microscopy

HD-00499 FOOTE, WARREN C., Col. Agr., Utah State Univ., Logan, Utah
estrogens; progesterone; estrus; ovulation; fertilization; pituitary hormones

HD-00502 WARKANY, JOSEF, Children's Hosp., Cincinnati, Ohio
congenital abnormalities; teratogenic agents; dietary deficiency; hypervitaminosis; adrenal cortex hormones; embryology; genetics

HD-00503 DOUGLAS, GORDON W., New York Univ. Med. Cr., New York, N.Y.
pregnancy..placenta; immunology; homologous wasting disease; trophoblast; transplantation..homotransplantation

HD-00504 BUCHANAN, GEORGE D., Sch. Med. Sci., Univ. Tennessee, Memphis, Tenn.
pregnancy..implantation; blastocyst; ovariectomy; reproductive system, female; species; sex hormones; pregnancy..pseudopregnancy

HD-00505 COHEN, FLOSSIE, Child Res. Cr. Michigan, Detroit, Mich.
pregnancy..placental transfer; blood cells..erythrocytes; fetus; immunofluorescence; blood groups; maternal-fetal

HD-00515 KUMAR, DHIRENDRA, Johns Hopkins Univ., Baltimore, Maryland
edema; electron microscopy; ischemia; kidney; pregnancy.. placenta; pregnancy toxemias and hypertension..eclampsia; proteinuria

HD-00520 MacLAREN, JOHN A., Boston Lying-in Hosp., Boston, Mass.
pregnancy; blood proteins..serum proteins; immunology.. antigens

HD-00523 BARNES, ALLAN C., Sch. Med., The Johns Hopkins Univ., Baltimore, Md.
uterus..myometrium contraction; ion..cations; pregnancy..placenta; potentials..membrane potentials; muscle proteins; progesterone; estrogens; binding; pregnancy..abortion

HD-00525 WARKANY, JOSEF, Children's Hosp. Research Fdn., Cincinnati, Ohio
genetics..chromosomes; congenital abnormalities; embryology; teratogenic agents

HD-00530 GROSS, RUTH T., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
blood cells..leukocytes; infant human..newborn; adenosine triphosphate; infant human..premature infants; adenosine diphosphate; blood cells..erythrocytes; phosphotransferases..ATP : D--hexose 6--phosphotransferase; bioassay; phosphotransferases..ATP : D--fructose 6--phosphate 1--phosphotransferase; fructose--1--phosphate; phosphotransferases..ATP : D--3--phosphoglycerate 1--phosphotransferase; fructose; phosphotransferases..ATP : pyruvate phosphotransferase; hydrolysis; dehydrogenases.. glyceraldehydephosphate dehydrogenase; dehydrogenases.. glucose--6--phosphate dehydrogenase; genetics; aging; aldolases; dehydrogenases..lactate dehydrogenase; cell age; glycolysis; pyridine nucleotides; peroxidases.. glutathione peroxidase; oxidoreductases..glutathione reductase

HD-00531 ZUSPAN, FREDERICK P., Med. Col. Georgia, Augusta, Ga.
pregnancy..perinatal; pregnancy..placental transfer; epinephrine; norepinephrine; monitoring; pregnancy..placenta; pregnancy toxemias and hypertension

HD-00532 SCIARRA, JOHN J., Col. Phys., Surg., Columbia Univ., New York, N.Y.
proteases..leucine aminopeptidase; pregnancy..placenta

HD-00533 STERN, KURT, Col. Med., Univ. Illinois, Chicago, Ill.
pregnancy; blood transfusion; immunity..isoimmunity; immunology..antigens; blood cells..erythrocytes; blood groups..Rh factors

HD-00538 FREUND, MATTHEW, New York Med. Col., New York, N.Y.
semen preservation; egg yolk; glycerin; freezing

HD-00540 SILVERMAN, WILLIAM A., Columbia Univ., New York City
thermoregulation; infants, human..newborn; environment; temperature; respiration; heart rate; blood circulation dynamics

HD-00543 SNYDER, ROBERT L., Zoological Society Philadelphia, Philadelphia, Pa.
sex difference; population dynamics, animal; growth; fetus; testis; ovary; reproduction

HD-00545 McGAUGHEY, HARRY S., Sch. Med., Univ. Virginia, Charlottesville, Va.
uterus..myometrium contraction

HD-00546 PRYSTOWSKY, HARRY, Sch. Med., Univ. Florida, Gainesville, Fla.
oxygen tension; pregnancy..placenta; uterus; ovary; estrogens; progesterone; acetazolamide; chlorothiazide; fetus; carbon dioxide tension; sodium; potassium; diabetes; pregnancy toxemias and hypertension

HD-00547 GRUENWALD, PETER, Sinai Hosp., Baltimore, Md.
respiration; infants, human..newborn; pregnancy.. perinatal; mortality; pregnancy..placenta; blood supply; growth; lung; fetus; hyaline membrane disease, pulmonary; surface active agents

HD-00548 DAY, RICHARD L., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
infants, human..premature infants; thermoregulation; cold; blood flow; sweat; body temperature

HD-00553 VASICKA, ALOIS, Univ. Texas Med. Cr., Galveston, Tex.
oxygen tension; pregnancy..amniotic fluid; fetus; electrodes..oxygen microelectrode; electrocardiography; pregnancy..childbirth; anesthesia; analgesics

HD-00557 CONKLIN, JAMES L., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
histogenesis; endocrine glands; pancreas; hypophysectomy; parabiosis

HD-00558 LARKS, SAUL D., Col. Eng., Marquette Univ., Milwaukee, Wis.
uterus..myometrium contraction; electrophysiology; fetus; electrocardiography; diagnostic tests; metabolic diseases; diabetes; blood groups..Rh factors; congenital heart disease; infant human..newborn; infant animals..newborn; radioelectrocardiography; instrumentation--methodology; telemetering; mental retardation; infant human..premature infant

HD-00559 LIN, TA-JUNG, Cleveland Metropolitan General Hosp., Cleveland, Ohio
pregnancy, placenta; transplantation..heterotransplantation; transplantation..homotransplantation; histocompatibility

(contd)

HUMAN EMBRYOLOGY AND DEVELOPMENT (CONTD)

HD-00560 SCHAFER, IRWIN A., Stanford Med. Cr., Palo Alto, Cal.
congenital abnormalities; teratogenic agents; tissue culture

HD-00561 DOOLITTLE, DONALD P., Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
19-norethisterone; norethynodrel; 1-(p-diethylamino-ethoxyphenyl)-1,2-diphenyl-2-chloroethylene; ovulation inhibitors

HD-00564 HULKA, JAROSLAV F., Sch. Med., Elizabeth Steel Magee Hosp., Pittsburgh, Pa.
trophoblast; maternal--fetal; immunology..antigens; pregnancy..postpartum; pregnancy..abortion; pregnancy toxemias and hypertension; skin tests

HD-00570 GREENWALD, GILBERT S., Univ. Kansas Med. Cr., Kansas City, Kans.
oviduct; pregnancy..implantation; muscle relaxants.. antispasmodics; fertility

HD-00585 HAFEZ, E.S.E., Col. Agr., Washington State Univ., Pullman, Wash.
pregnancy..implantation; embryo; embryo and placental transplantation; uterus..endometrium; sex hormones; genetics; age; ovulation; blood supply; blastocyst; ovary ..corpus luteum; ovariectomy; hysterectomy; growth

HD-00587 JONES, HOWARD W., Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
reproductive system; embryology; congenital abnormalities; sex differentiation abnormalities; genetics ..chromosomes; blood cells..leukocytes; tissue; psychology; sex difference; sex hormones; maternal-fetal

HD-00589 MUNSICK, ROBERT A., Univ. Colorado Med. Cr., Denver, Colorado
chorion; amnion; membrane permeability and transport; sodium; potassium; hyposmolarity; pregnancy..amniotic fluid; pituitary hormones.. neurohypophyseal hormones; oviduct

HD-00594 EMERSON, KENDALL, Jr., Sch. Med., Harvard Univ., Cambridge, Mass.
metabolism; pregnancy; endocrine glands disorders; hormones; radiolabeled

HD-00595 HOWE, GEORGE R., Col. Med., Univ. Vermont, Burlington, Vt.
fertility; estrus cycle; hysterectomy; uterus; ovary; transplantation; uterus hormones; ovulation accelerators

HD-00596 GREENWALD, GILBERT S., Univ. Kansas Med. Cr., Kansas City, Kans.
FSH; pituitary hormones; ovariectomy; ovulation.. superovulation; neuroendocrine systems; progesterone

HD-00597 TURNER, C. DONNELL, Grad. Sch., Duquesne Univ., Pittsburgh, Pa.
embryology; ribonucleic acid; testis; ovary; pregnancy; transplantation..homotransplantation; nucleases.. ribonucleases; androgens; estrogens

HD-00598 DRISCOLL, SHIRLEY G., Boston Lying-in Hosp., Boston, Mass.
diabetes; pregnancy..abortion; bacterial diseases; virus diseases; pregnancy..placenta

HD-00602 MILLER, HERBERT C., Univ. Kansas Med. Cr., Kansas City, Kans.
apnea; hyaline membrane disease, pulmonary; hypoxia neonatorum; pregnancy..childbirth

HD-00605 SAMORAJSKI, THADDEUS, Cleveland Psychiatric Inst., Cleveland, Ohio
chlorpromazine; pregnancy; liver damage; fetus; infant animals; proteases..leucine aminopeptidase; amino-transferases..aspartate transaminase; aminotransferases.. alanine transaminase; phosphomonoesterases..alkaline phosphatases

HD-00606 ODOR, D. LOUISE, Bowman Gray Sch. Med., Winston-Salem, N.C.
reproduction; embryology; ovary..Graffian follicle; gonadotropins; estradiol

HD-00610 GREEN, JAMES A., Sch. Med., Univ. Missouri, Columbia, Mo.
uterus..endometrium; menstrual cycle; progestins; estrogens; peroxidases; carcinoma; uterus neoplasms; ethynyl estradiol; antifertility factors

HD-00611 GATES, ALLEN H., Sch. Med., Stanford Univ., Palo Alto, Cal.
ovum; oogenesis; mutagens; ovulation..superovulation; genetics..chromosomes; fertilization; zygote cleavage; embryology; immunology; nutrients; cell division..meiosis; fetus

HD-00614 ROCK, JOHN, Fdn. for Reproductive Research, Brookline, Mass.
semen preservation; spermatozoa..oligospermia; freezing; fertilization..artificial fertilization

HD-00616 MILLER, JERRY R., Indiana Univ. Fdn., Indianapolis, Ind.
pregnancy..childbirth; anesthesia; heart rate; fetus; uterus..myometrium contraction; blood pressure; cyclo-propane; bromochlorotrifluoroethane; nitrous oxide; ether; barbiturates; succinyl choline; d--tubocurarine; flaxedil; narcotics; vasoactive agents..vasopressors; oxytocic agents; atropine; scopolamine; phenothiazine

HD-00617 SOLISH, GEORGE I., Research Fdn. State Univ. New York, Albany, N.Y.
blood groups; fertility; genetics; hemagglutinins; immunology..antigen-antibody reaction; reaction sites; spermatozoa; uterus..cervix

HD-00618 ULLERY, JOHN C., Col. Med., University Hospital, Columbus, Ohio
bioassay; carcinogenesis; carcinoma; dehydratases.. carbonic anhydrase; menstrual cycle; progestins; testosterone; uterus..endometrium; uterus neoplasms

HD-00619 PELTIER, LEONARD F., Univ. Kansas Med. Cr., Kansas City, Kans.
bone deformities; congenital abnormalities; embryology; fetus; orthopedics

HD-00621 DAY, BILLY N., Univ. Missouri, Columbia, Mo.
thalidomide; congenital abnormalities; pregnancy

HD-00623 BRIDGERS, WILLIAM F., Sch. Med., Washington Univ., St. Louis, Mo.
glucose; radiolabeled carbon; amino acids; brain; age; formates; serine; glycine

HD-00624 KETCHEL, MELVIN, Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
embryo and placental transplantation; immunology.. antigens; pregnancy..placenta; fetus; fertility; pregnancy.. abortion; transplantation rejection

HD-00628 CARTER, JAMES E., Indiana Univ. Med. Cr., Indianapolis, Ind.
pregnancy..placenta; trophoblast; chorion; cell components; choriocarcinoma; pregnancy..implantation

HD-00629 STEVENS, VERNON C., Col. Med., University Hosp., Columbus, Ohio
chondroitin sulfate; menstrual cycle; pregnancy; pregnancy ..postpartum; pregnancy..premature delivery; radiolabeled sulfur; uterus..cervix

HD-00630 BRENT, ROBERT L., Jefferson Med. Col., Philadelphia, Pa.
congenital abnormalities; blood supply; uterus; pregnancy ..placenta; immunology..autoantibodies; embryology; immunology..antigens; genetics..chromosomes; primates.. monkeys; cooperative study; fertility; nephrosis; cortisone

HD-00633 MASTROIANNI, LUIGI, Jr., Harbor Gen. Hosp., Torrance, Cal.
oviduct, hormones; primates..Macaca mulatta; menstrual cycle; body fluids

HD-00634 KING, DOROTHY W., State Univ. Iowa, Iowa City, Iowa
congenital abnormalities; dietary deficiency; tocopherol; sex hormones; antioxidants; maternal-fetal

HD-00637 GREENE, JOHN W., Jr., Univ. Kentucky Med. Cr., Lexington, Ky.
diagnostic tests; estriol; fetus; hemorrhage; mortality; pregnancy..placental disorders

HD-00640 GOLDFIEN, ALAN, Sch. Med., Univ. California Med. Cr., San Francisco, Cal.
adrenal cortex hormones; amenorrhea; cyclic functions; hysterectomy; longitudinal study; medical records; morbidity; mortality; ovariectomy; ovary neoplasms; therapy evaluation

HD-00641 GRABOWSKI, CASIMER T., Col. Arts, Sci., Univ. Miami, Coral Gables, Fla.
cardiovascular diseases; congenital abnormalities; edema (generalized); hypoxia; ion exchange; teratogenic agents

HD-00642 WEIL, WILLIAM B., JR., Col. Med., Univ. Florida, Gainesville, Fla.
nutrition; body composition; aging; longevity; life cycle; pregnancy..perinatal; infants, animals

HD-00643 RANDALL, CLYDE L., Res. Fdn. State Univ. New York, Buffalo, N.Y.
cardiovascular diseases; hysterectomy; longitudinal study; medical records; morbidity; mortality; ovariectomy; ovary neoplasms; therapy evaluation

HD-00645 SCOTT, ROLAND B., Col. Med., Howard Univ., Washington, D.C.
anthropometry; children; criteria; ethnic groups..Negroes; growth; osteogenesis; radiography; socioeconomics

HD-00646 SHORB, MARY S., Sch. Agr., Univ. Maryland, College Park, Md.
chemical structure; fertility; lipids; poultry; semen preservation; spermatozoa

HD-00647 SINCLAIR, JOHN G., Sch. Med., Univ. Texas, Galveston, Tex.
chemical structure--biological activity; congenital abnormalities; drugs; fetus; pregnancy; protozoa.. Poteriochromonas stipitata; teratogenic agents

HD-00649 TAKAI, TOSHIO, Osaka City Univ. Med. Sch., Osaka, Japan
fetus; enzymes; choline esterases; phosphatases; oxidoreductases..succinate dehydrogenase; oxidoreductases..lactate dehydrogenases; oxidases..cytochrome oxidases; oxidoreductases..isocitrate dehydrogenase; deoxyribonucleic acid; ribonucleic acid

HD-00650 HODGMAN, JOAN E., Sch. Med., Univ. Southern California, Los Angeles, Cal.
acidosis; glucose; hyaline membrane disease, pulmonary; infants, human..premature infants; longitudinal study; lung; mortality; sodium bicarbonate; therapy

HD-00651 McCLURE, JAMES H., California Col. Med., Los Angeles, Cal.
respiration; infant human..newborn; hyaline membrane disease, pulmonary; plethysmography; resuscitation; pneumotachography; oxygen tension; carbon dioxide tension; acid-base equilibrium

HD-00656 BOYDEN, EDWARD A., Univ. Washington, Seattle, Washington
growth; lung..bronchi; blood vessels; lung anthropometry; radiography; heart surgery; growth hormones; therapy evaluation

HD-00713 **CROCKETT, J.R.**, Univ. Florida, Gainesville, Fla.
dwarfism; embryology; genetics..heterozygotes; mucopolysaccharides; body fluids; blood proteins; enzymes

HD-00724 **FOLLEY, S.J.**, Natl. Inst. Res. Dairing, Shinfield, Reading, England
oxytocin; lactation; reproduction; pregnancy.. childbirth; breast feeding; vasopressin; audiostimulus

HD-00727 **TWARDOCK, A. ROBERT**, Col. Vet. Med., Univ. Illinois, Urbana, Ill.
pregnancy..placental transfer; minerals; radiolabeled calcium; radiolabeled strontium; antimetabolites; parathyroid hormone; vitamin D; perfusion; binding; age; calcium; strontium

HD-00743 **BLANC, WILLIAM A.**, Col. Phys., Surg., Columbia Univ., N.Y.C.
fetus; age; injuries..wound healing; congenital abnormalities; histogenesis; ischemia; irritants; inflammation; intestinal atresia; pregnancy..placental transfer; bacterial diseases; surgery

HD-00745 **BLACK, DONALD L.**, Col. Agr., Univ. Massachusetts, Amherst, Mass.
reproduction; ovulation; muscle contraction; muscle.. smooth muscle; oviduct; nerves..denervation; estrogens; progesterone; ovum

HD-00747 **OLIVER, THOMAS K., Jr.**, Sch. Med., Univ. Washington, Seattle, Wash.
infant human..newborn; infant human..premature infant; thermoregulation; age; oxygen consumption; pulmonary ventilation; norepinephrine; body weight; body water; hyaline membrane disease, pulmonary; glucose; sodium bicarbonate; bilirubin; antibiotics; pregnancy..childbirth; tris (hydroxymethyl) aminomethane

HD-00748 **WELLER, EDWIN M.**, Col. Med., Baylor Univ., Houston, Tex.
blood proteins..serum proteins; embryology; genetics; embryonic membranes; egg proteins; teratogenic agents; reaction sites; congenital abnormalities

HD-00752 **WRIGHT, PAUL A.**, Col. Agr., Univ. New Hampshire, Durham, N.H.
clover; alfalfa; feeding; estrogens; estrogens inhibitors; gonadotropins; antimetabolites; growth; fertility; veterinary medicine

HD-00766 **BLANC, WILLIAM A.**, Col. Phys., Surg., Columbia Univ., N.Y.C.
genetics..chromosomes; pregnancy loss; fetus; infant human; congenital abnormalities; autopsy; amnion; thymus; congenital heart disease

HD-00767 **BRONSON, FRANKLIN H.**, Roscoe B. Jackson Mem. Lab., Bar Harbor, Maine
reproduction; fertility; pregnancy..implantation; odors; smell; sensory mechanisms; socioenvironment; stress; population dynamics, animal; genetic strains; sex difference; adrenal glands; pituitary hormones; prolactin; corticosterone; emotional reactions

HD-00780 **BRANDSTATER, BERNARD J.**, American Univ. Hosp., Beirut, Lebanon
lung..alveolus; pulmonary function; instrumentation--methodology; infant human..newborn; infant human.. premature infant; age; heart surgery; artificial respiration; hyaline membrane disease..pulmonary; oxygen inhalation therapy

HD-00785 **DOSSEL, WILLIAM E.**, Sch. Med., Creighton Univ., Omaha, Nebr.
embryology; histogenesis; thyroid gland; pituitary gland; hypophysectomy; thyrotropin

HD-00788 **QUINLIVAN, W.L.G.**, Magee-Womens Hosp., Pittsburgh, Pa.
immunology..antigen-antibody reactions; fertility; spermatozoa; immunology..antibodies; radiolabeled iodine; immunological tests; gamma globulin; serology

HD-00791 **MOSIER, H. DAVID**, Illinois State Pediatric Inst., Chicago, Ill.
nicotine; growth; fetus; infant animals..newborn; dosage; body weight; lipids; cholesterol; liver

HD-00795 **MONTALVO, JOSE M.**, Univ. Mississippi Med. Cr., Jackson, Miss.
infant human..newborn; thyroid function; protein--bound iodine; thyroxine; thyrotropin; body temperature; triiodothyronine; radiolabeled iodine; pituitary gland

HD-00806 **VON MICSKY, LAJOS I.**, Woman's Hosp., New York, N.Y.
pregnancy..childbirth; pregnancy..amniotic fluid; uterus.. cervix; electronic cervimetry; instrumentation--methodology; hydrostatic pressure; biomathematics; computer analysis

HD-00814 **LIPNER, HARRY**, Grad. Sch., Florida State Univ., Tallahassee, Fla.
ovary..Graafian follicle; hormones; actinomycin D; puromycin; ribonucleic acid; polymerases; ovulation inhibitors; ovulation

HD-00815 **ZANGWILL, DONALD P.**, Magee-Womens Hosp., Pittsburgh, Pa.
pregnancy..premature delivery; bacteriuria; immunology..antibodies; hemagglutination; urinary tract disorders; bacteria..Escherichia coli

HD-00829 **RARICK, G. LAWRENCE**, Univ. Wisconsin, Madison, Wis.
mongolism; growth; children..adolescence; radiography; anthropometry

HD-00830 **TORRANCE, JANE T.**, Western Reserve Univ., Cleveland, Ohio
infant human..premature infant; body temperature; body weight; ethnic groups; sex difference; time

HD-00831 **GOLDIE, MARK**, Sch. Arts, Sci., Loyola Univ., Chicago, Ill.
nutrition; embryology; congenital abnormalities; teratogenic agents; insulin; pilocarpine; glucose; amino acids; radiolabeled carbon; hypervitaminosis; amino acid excess

HD-00836 **SHEPARD, THOMAS H.**, Sch. Med., Univ. Washington, Seattle, Wash.
embryology; laboratory facilities; fetus; pregnancy, abortion; congenital abnormalities; thyroid gland; genetics..chromosomes; virus diseases

HD-00971 **DAVIES, JACK**, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
pregnancy..placenta; ovary..corpus luteum; chorionic gonadotropins; LH; pituitary gland

HD-00974 **MAIBENCO, HELEN C.**, Col. Med., Univ. Illinois, Chicago, Ill.
pregnancy..implantation; age; reproductive system, female; fertility; estrogens; cell components..mitochondria; cell components..Golgi apparatus; progesterone; ovariectomy

HD-00975 **REYNOLDS, S.R.M.**, Univ. Illinois, Chicago, Ill.
stress; aging; maternal behavior; reproductive system; blood vessels; connective tissue; social space; experimental psychology; fertility; kidney; ovary

HD-00976 **BEHRMAN, SAMUEL J.**, University Hosp., Ann Arbor, Mich.
immunology..antibodies; immunology..antigens; immunology..anamnestic reaction; spermatozoa; fertility; uterus..myometrium; fluorescent dyes; adjuvants, immunology

HD-00980 **FABER, JAN J.**, University Hosp., Seattle, Wash.
pregnancy..placental transfer; oxygen transport; capillary beds; hydrostatic pressure; blood flow; blood pressure; fetus

HD-00982 **BUTCHER, ROY L.**, West Virginia Univ. Med. Cr., Morgantown, W. Va.
ovary..corpus luteum; cell age; uterus; sex hormones; estrus cycle

HD-00983 **FUGO, NICHOLAS W.**, West Virginia Univ. Med. Cr., Morgantown, W. Va.
ovum; congenital abnormalities; ovulation inhibitors; genetics..chromosomes; pregnancy..abortion; fertilization; embryology; age

HD-01003 **LANMAN, JONATHAN T.**, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
pregnancy..prolonged pregnancy; pregnancy.. placental transfer; congenital abnormalities; nervous system..central nervous system; transplantation immunology; transplantation..homotransplantation; hypophysectomy; pituitary hormones; fertility; immunology..antibodies; cytotoxicity; blood cells..lymphocytes; genetic strains; growth; ovum; pigments

HD-01012 **THOMAS, JAMES B.**, Bowman Gray Sch. Med., Winston-Salem, N.C.
pregnancy..abortion; genetics; cell components..sex chromatin; congenital abnormalities; cell culture

HD-01022 **De FEO, VINCENT J.**, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
pregnancy..implantation; blastocyst; uterus.. endometrium; cell differentiation; pregnancy.. placenta; estrus cycle; progesterone; estrone; pregnancy..pseudopregnancy

HD-01037 **BLAHA, GORDON C.**, Col. Med., Univ. Cincinnati, Cincinnati, Ohio
mice; fertility; ovulation; uterus..endometrium; pregnancy..implantation; ovum; cell division.. meiosis; genetics, chromosomes

HD-01038 **PERGAMENT, EUGENE**, Michael Reese Hosp., Med. Cr., Chicago, Ill.
genetics..chromosomes; congenital abnormalities; embryology; pregnancy..missed abortion; family.. parents; siblings; tissue culture; enzymes

HD-01039 **VILAR, OSCAR**, Albert Einstein Med. Cr., Philadelphia, Pa.
testis; tissue culture; phagocytosis; cells; cell differentiation; gonadotropins; hypophysectomy

HD-01054 **LOWREY, GEORGE H.**, University Med. Cr., Ann Arbor, Mich.
children; growth; somatotropin; bioassay; body build; chemotherapy; dwarfism

HD-01055 **DAWSON, WALLACE D.**, Univ. South Carolina, Columbia, S.C.
thyroxine; estrogens; insulin; secretory mechanisms; body weight; fertility; genetics..parent--hybrid; maternal--fetal; radiolabeled iodine

HD-01065 **BRAUN, IDA G.**, Children's Hosp., East Bay, Oakland, Cal.
intestinal absorption; fats; diet; age; infant human; linoleic acid; nutrition

HD-01070 **HOMBURGER, FREDDY**, Bio-Research Inst., Inc., Cambridge, Mass.
thalidomide; metabolites; congenital abnormalities; genetic strains; dosage

(contd)

HUMAN EMBRYOLOGY AND DEVELOPMENT (CONTD)

HD-01075 STANLEY, ALLAN J., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
hermaphroditism..pseudohermaphroditism; genetics.. chromosomes; cell components..chromatin; genetic strains; pituitary gland; adrenal glands; steroid hormones; endocrine glands transplantation; reaction sites; androgens; therapy evaluation; sex difference; parabiosis; pregnancy

HD-01076 HOLLAND, JAMES P., Grad. Sch., Howard Univ., Washington, D.C.
estrogens; ovary; uterus; reproduction; thyroid function; thyroid hormones; thyrotropin; sex difference; pregnancy..implantation; blastocyst; oxygen consumption; adrenal glands

HD-01077 SAWADA, YOSHIAKI, Univ. Michigan Med. Cr., Ann Arbor, Mich.
semen; freezing; semen preservation; spermatozoa motility; immunology..antigens; radiation effects; congenital abnormalities; fertility

HD-01087 MOYER, DEAN L., Harbor Gen. Hosp., Torrance, Cal.
spermatozoa; phagocytosis; reproductive system, female; vagina; uterus..cervix; uterus..endometrium; oviducts; reaction sites; body fluids; estrogens; chorionic gonadotropins; progesterone; antifertility factors; polysaccharides; progestins; primates..monkeys

HD-01104 KRIEGER, INGEBORG, Children's Hosp., Detroit, Mich.
growth; basal metabolism; body water loss..insensible water loss; nitrogen balance; thyroid function; adrenal cortex hormones; nutrition; radiolabeled iodine; radiolabeled carbon; maternal behavior

HD-01108 CHOW, BACON F., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
infant animals..premature infant; nutrition; proteins; ethionine; body composition; growth; behavior; pituitary hormones

HD-01110 SZOLLOSI, DANIEL, Sch. Med., Univ. Washington, Seattle, Wash.
fertilization; cell components..cell membrane; zygote cleavage; cell differentiation; blastocyst; deoxyribonucleic acid replication; ribonucleic acid; cell culture

HD-01114 IDRISS, F.S., Children's Mem. Hosp., Chicago, Ill.
instrumentation--methodology; surgery; fetus; electrocardiography; vectorcardiography; heart intracardiac pressures; gonadectomy; testis; steroid hormones; radiolabeled carbon; renal hypertension; urinary tract disorders; congenital abnormalities

HD-01116 YOUNG, REUBEN B., Med. Col. Virginia, Richmond, Va.
catecholamines; 3--methoxy--4--hydroxymandelic acid; infant human..newborn; hyaline membrane disease, pulmonary; homeostasis; stress; diabetes; proteins; binding; nervous system..sympathetic nervous system; glucose

HD-01120 LEEMAN, SUSAN E., Sch. Sci., Brandeis Univ., Waltham, Mass.
growth; hormones; ACTH; immunology; oxidoreductases ..lactate dehydrogenase; infant animals..newborn; maternal-fetal; lactation; pituitary gland; brain.. hypothalamus; molecular structure; stress; steroid hormones; adrenal cortex

HD-01121 THURMAN, WILLIAM G., Sch. Med., Univ. Virginia, Charlottesville, Va.
blood proteins..serum proteins; infant human..premature infants; congenital abnormalities; hyperbilirubinemia; immunity

HD-01127 FRIDHANDLER, LOUIS, Harbor Gen. Hosp., Torrance, Cal.
ovum; cell differentiation; oxygen consumption; amino acids; carbohydrates; proteins; nucleic acids; body fluids; cell culture

HD-01128 LITTLE, WILLIAM A., Col. Med., Univ. Florida, Gainesville, Fla.
teratogenic agents; enzyme inhibitors..monoamine oxidase inhibitors; alkylating agents; anti-metabolites; congenital abnormalities; genetics.. chromosomes; fertility; pregnancy..placental transfer; primates..Macaca mulatta; embryology; embryo resorption; drugs interactions; species

HD-01133 SMITH, JIMMIE B., Univ. Hawaii, Honolulu, Hawaii
genetics..chromosomes; genetics..sex chromosomes; congenital abnormalities; polymorphism (biology); pregnancy loss; family; geographical sites..Hawaii; ethnic groups; cell division..meiosis; gonads; sex difference

HD-01162 LUHBY, A. LEONARD, New York Med. Col., N.Y.C.
pregnancy..placental transfer; blood circulation dynamics; vitamin B12; folic acid; macrocytic anemia; intestinal absorption; pregnancy toxemias and hypertension.. eclampsia; infant human..newborn

HD-01163 VANDEWIELE, RAYMOND L., Col. Phys., Surg., Columbia Univ., New York, N.Y.
body fluids; progesterone; estradiol; estrone; pregnancy.. placental transfer; fetus; pregnancy toxemias and hypertension; radiolabeled carbon; tritium; menstrual cycle; mathematical models

HD-01166 O'DELL, BOYD L., Col. Agr., Univ. Missouri, Columbia, Mo.
vitamin B12; embryology; aging; lipids..serum lipids; nutrition; dietary deficiency; congenital abnormalities; sulfhydryls; cyanides; hemoglobin; longevity

HD-01170 DAY, BILLY N., Sch. Agr., Univ. Missouri, Columbia, Mo.
ovary..corpus luteum; hysterectomy; luteolytic factors; ovary; endocrine glands

HD-01171 GOLDMAN, HERBERT I., Long Island Jewish Hosp., New Hyde Park, N. Y.
proteins; feeding; acidosis; infants, human premature infants; mortality; morbidity

HD-01172 CRAIG, JOHN M., Free Hosp. Women, Brookline, Mass.
pregnancy toxemias and hypertension; blood pressure; pregnancy; 6-dimethylamino-9-(3'amino-3'-deoxy-β-D-ribofuranosyl)-purine; pituitary gland; progesterone; deoxycorticosterone; pregnancy..abortion; serotonin

HD-01173 DANFORTH, DAVID N., Evanston Hosp. Assn., Evanston, Ill.
uterus..cervix; connective tissue; collagen; pregnancy

HD-01180 LORINCZ, ALBERT B., Sch. Med., Creighton Univ., Omaha, Nebr.
methionine; dosage; amino acid; blood..plasma; pregnancy ..umbilical cord; infant human..newborn; urinary tract disorders; therapy

HD-01181 DEFOE, EDWARD C., Jr., Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
catecholamines; infant human..newborn; hyaline membrane disease (pulmonary); maternal-fetal; morbidity; pregnancy toxemias and hypertension; obesity; diabetes

HD-01183 REYNOLDS, JOHN W., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
hydrocortisone; pregnancy..placental transfer; corti-costeroid binding globulin; infant human..newborn; adrenal cortex hormones; tissue; ACTH; estrogens; progesterone; adults; radiolabeled carbon; tritium; blood proteins..serum proteins; conjugates

HD-01188 MERRILL, JAMES A., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
uterus..endometrium; reproductive system (female); lipids; phospholipids; sterols; sterol esters; triglycerides; menstruation; menstruation disorders; pregnancy; fractionation; hormones; radiolabeled carbon

HD-01203 BLOCH, ERIC, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
estrogens; progesterone; ovary; pregnancy..placenta; reproduction; gonadotropins; blood; steroids

HD-01205 STIMMEL, BENJAMIN F., Rees-Stealy Fdn., San Diego, Cal.
estrogens; metabolites; pregnancy

HD-01210 GRAY, MARY J., Col. Med., Univ. Vermont, Burlington, Vt.
pregnancy toxemias and hypertension; water-electrolyte balance; aldosterone; progesterone; pregnancy; body fluids

HD-01211 BURT, RICHARD L., Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.
carbohydrates; pregnancy; pregnancy toxemias and hypertension; tolbutamide; insulin; phosphorylases; adipose tissue; lipids; diabetes

HD-01212 PIKE, RUTH L., Col. Home Ec., Pennsylvania State Univ., University Park, Pa.
pyridoxine; pregnancy; water--electrolyte balance; sodium; potassium; sodium chloride; body fluids; maternal--fetal; aldosterone; kidney..juxtaglomerular apparatus

HD-01214 MARKS, JAMES F., Univ. Texas Southwestern Med. Sch., Dallas, Tex.
blood cells..erythrocytes; hydrocortisone; blood..plasma; infant human..premature infants; binding; corticosteroid binding globulins; pregnancy..umbilical cord; 17-hydroxy-corticosteroids; radiolabeled carbon; infant human.. premature infants

HD-01215 KRANTZ, KERMIT E., Sch. Med., Univ. Kansas, Kansas City, Kans.
pregnancy..placenta; maternal-fetal; blood circulation dynamics

HD-01220 MERRILL, JAMES A., Oklahoma Univ. Sch. Med., Oklahoma City, Okla.
lipids..plasma lipids; pregnancy..placental transfer; fatty acids; infant human; radiolabeled carbon; palmitic acid

HD-01251 ULFELDER, HOWARD, Vincent Mem. Hosp., Boston, Mass.
radiolabeled carbon; testosterone; ovary; metabolites; estrogens

HD-01261 EHRMANN, ROBERT L., Free Hosp. Women, Brookline, Mass.
organ culture; uterus..endometrium; culture media; glycogen; progesterone; estradiol; trophoblast; chorio-carcinoma; neoplasms invasiveness

HD-01272 JACKSON, BENJAMIN T., Sch. Med., Boston Univ., Boston, Mass.
pituitary hormones; adrenal cortex hormones; pregnancy.. placenta; hormones; fetus; infant animals..newborn; neuroendocrine systems

HD-01282 DELORIMIER, ALFRED A., Univ. California Sch. Med., San Francisco, Cal.
diaphragmatic hernia; congenital abnormalities; fetus; infants animal..newborn; thoracic surgery

HD-01300 CHOW, BACON F., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
growth; child development; maternal--fetal; nutrition; body composition; immunology..antibodies; species

HD-01301 HOTCHKISS, ROBERT S., New York Univ. Med. Cr., New York, N.Y.
spermatogenesis; testis; fertility; veins..spermatic vein; therapy evaluation; blood vessels restoration; varicocele

HD-01306 LAMBOOY, JOHN P., Eppley Cancer Res. Inst., Omaha, Nebr.
embryology; congenital abnormalities; dietary deficiency; riboflavin; antivitamins; flavoprotein enzymes; synthesis

HD-01307 EVANS, HERBERT M., Univ. California Med. Cr., San Francisco, Cal.
estrus cycle; reproductive system, female; publications..monograph; publications..literature survey

HD-01308 LEESON, C. ROLAND, Col. Med., State Univ. Iowa, Iowa City, Iowa
testis; cell components..endoplasmic reticulum; steroids; age

HD-01309 GRYBOSKI, JOYCE D., Sch. Med., Yale Univ., New Haven, Conn.
sucking behavior; infant human..premature infant; esophagus motility; gastrointestinal motility; swallowing; body weight; instrumentation--methodology

HD-01319 RHODES, ROBERT S., Meharry Med. Col., Nashville, Tenn.
kernicterus; infant animals..newborn; immunology..antibodies; brain..cerebral cortex; oxidoreductases..cytochrome C oxidase; bilirubin

HD-01320 MILLEY, PAUL S., Univ. Rochester Med. Cr., Rochester, N.Y.
hyaline membrane disease, pulmonary; infant human..newborn; infant animals; pulmonary function; pulmonary edema; nervous system..laryngeal nerves; respiratory system; vagotomy; primates..monkeys

HD-01356 AMANN, RUPERT P., Col. Agr., Pennsylvania State Univ., University Park, Pa.
spermatozoa; testis; spermatogenesis; epididymis; fertility

HD-01357 BO, WALTER J., Bowman Gray Sch. Med., Winston-Salem, N.C.
pregnancy..implantation; pregnancy..pseudopregnancy; uterus..endometrium; sulfomucopolysaccharides; progesterone; estrogens

HD-01366 JOHNSON, WAYNE L., Sch. Med., Univ. Washington, Seattle, Wash.
pregnancy..childbirth; pregnancy..premature delivery; pregnancy..amniotic fluid; uterus..cervix; muscle contraction; maternal--fetal; blood pressure; heart rate; instrumentation--methodology; primates; analgesics; anesthetics

HD-01379 COTTER, JULIAN R., Sch. Med., Univ. Florida, Gainesville, Fla.
pregnancy; uterus; blood flow; oxygen consumption; exercise; epinephrine; progesterone; estrogens; sympathectomy; heart function

HD-01385 JACKSON, BENJAMIN T., Sch. Med., Boston Univ., Boston, Mass.
erythroblastosis fetalis; age; blood transfusion; therapy evaluation; immunology..antigens; immunology..antibodies; immunity; anemia; blood cells..erythrocytes; radiolabeled chromium; parabiosis; maternal--fetal

HD-01400 FARBER, PHILLIP A., New York Univ. Med. Cr., New York, N.Y.
genetics..chromosomes; genetics..karyotypes; congenital abnormalities; blood cells..leukocytes; bone marrow; skin; primates..Macaca mulatta; children; handicapped children

HD-01401 NISHIMURA, HIDEO, Fac. Med., Kyoto Univ., Kyoto, Japan
embryo; congenital abnormalities; genetics..chromosomes; enzymes..isoenzymes; statistics

HD-01402 GREGOIRE, ADOLPHE T., Jefferson Med. Col., Philadelphia, Pa.
vagina; membrane permeability and transport; progesterone; estrogens; propylthiouracil; menstrual cycle; metabolites; acetylsalicylic acid; ovariectomy; hysterectomy; radiolabeled iodine

HD-01405 GORDON, HARRY H., Albert Einstein Col. Med., Bronx, N.Y.
electroencephalography; potentials..evoked potentials; diet; infant human..premature infant; amino acids; ascorbic acid; phenylalanine; tyrosine; kidney function

HD-01406 BURKE, BARBARA A., Univ. Minnesota, Minneapolis, Minn.
electron microscopy; lung..alveolus; histogenesis; hyaline membrane disease, pulmonary; diabetes; infant human..newborn; inclusion bodies; nervous system..sympathetic nervous system; muscles..smooth muscle; catecholamines; nerves..synaptic vesicles; nerves..axons

HD-01416 CSAPO, ARPAD I., Sch. Med., Washington Univ., St. Louis, Mo.
pregnancy..abortion; pregnancy..placenta; pregnancy..Cesarean section; uterus..myometrium contraction; menstrual cycle; oxytocin; progesterone; electrical conductance

HD-01429 HOLLOWELL, JOSEPH G., Jr., Med. Col. Georgia, Augusta, Ga.
blood cells; cell culture; genetics..sex chromosomes; congenital abnormalities; cell division..mitosis; diagnostic tests; amenorrhea; child development; Turner's syndrome

HD-01434 MOYA, FRANK, Jackson Mem. Hosp., Miami, Fla.
pregnancy..childbirth; anesthetics; teratogenic agents; fetus; hypoxia; hyperoxia; hypocapnia; hypercapnia

HD-01435 SPACKMAN, DARREL H., Sch. Med., Univ. Washington, Seattle, Wash.
pregnancy..childbirth; uterus..myometrium contraction; muscle proteins; elastin; collagen; chemical structure

HD-01461 KAPLAN, EUGENE, Sinai Hosp., Baltimore, Md.
blood cells..erythrocytes; cell age; infant human..newborn; infant human..premature infants; enzymes; radiolabeled chromium

HD-01464 KLAUS, MARSHALL, Stanford Med. Cr., Palo Alto, Cal.
surface active agents; lung; infant human; hyaline membrane disease, pulmonary; chemical structure; bioassay

HD-01467 HON, EDWARD H., Sch. Med., Yale Univ., New Haven, Conn.
fetus; heart rate; pregnancy..childbirth; uterus..myometrium contraction; pregnancy..placenta; oxygen tension; smoking; drugs

HD-01478 CSAPO, ARPAD I., Sch. Med., Washington Univ., St. Louis, Mo.
pregnancy..childbirth; uterus..myometrium contraction; pregnancy..amniotic fluid; progesterone; pregnancy..premature delivery; pregnancy..missed abortion; pregnancy..placenta

HD-01480 BARKER, JUNE N., New York Univ. Med. Cr., New York, N.Y.
fetus; body fluids; blood flow; pregnancy..placenta; pregnancy..amniotic fluid; pregnancy..placental transfer; brain; acid--base equilibrium; membrane permeability and transport; hypoxia; electrolytes; potentials..membrane potentials; embryonic membranes

HD-01482 WOLKOFF, A. STARK, Sch. Med., Univ. Kansas, Kansas City, Kans.
maternal--fetal; fetus; uterus; blood; oxygen; carbon dioxide; blood flow; blood volume; blood circulation dynamics; heart function; gases; pregnancy..placental transfer

HD-01483 HOLMAN, GERALD H., Eugene Talmadge Mem. Hosp., Augusta, Ga.
dwarfism; children; genetics..chromosomes; skin; immune sera; lipids; fatty acids; palmitic acid; glucose; radiolabeled carbon; radiolabeled iodine; growth hormones

HD-01503 CHAMBERLAIN, JACK G., Univ. California Med. Cr., San Francisco, Cal.
teratogenic agents; congenital abnormalities; nervous system..central nervous system; nicotinic acid; dietary deficiency; antimetabolites; 6--aminonicotinamide; pregnancy; embryology

HD-01509 DONNER, MARTIN W., Johns Hopkins Hosp., Baltimore, Md.
blood circulation dynamics; pregnancy..placenta; arteries; veins; uterus..myometrium contraction; oxytocin; arteries..arterioles; primates..Macaca mulatta

HD-01512 CHRISTENSEN, A. KENT, Sch. Med., Stanford Univ., Stanford, Cal.
testis; hypophysectomy; fetus; pituitary hormones; spermatogenesis; cell components..organelles; steroid hormones; cell types

HD-01549 KAISER, IRWIN H., Col. Med., Univ. Utah, Salt Lake City, Utah
estrus cycle; reproduction; diurnal variation; light adaptation

HD-01554 JOSIMOVICH, JOHN B., Magee-Womens Hosp., Pittsburgh, Pa.
pregnancy..placental transfer; pituitary hormones; chorionic gonadotropins; chemical structure--biological activity; immune sera; radiolabeled iodine; trophoblast; tissue culture; primates..monkeys

HD-01572 GOLDMAN, HERBERT I., Long Island Jewish Hosp., New Hyde Park, N.Y.
infant human; dietary deficiency; hypoprothrombinemias; vitamin K; blood coagulation..prothrombin; antibiotics; therapy evaluation; diarrhea

HD-01596 KINZEY, WARREN G., Col. Letters, Sci., Univ. California, Davis, Cal.
dietary deficiency; pregnancy..placenta; proteins; potassium; pyridoxine; thiamine; mammary glands; prolactin; nutrition; pituitary gland; ovary..corpus luteum

HD-01855 QUILLIGAN, EDWARD J., Harbor General Hosp., Torrance, Cal.
oxygen; carbon dioxide; pregnancy..placental transfer; pregnancy..amniotic fluid

HD-01856 WANG, KUANG-MEI H., State Univ. New York, Buffalo, N.Y.
aminotransferases..alanine transaminase; aminotransferases..aspartate transaminase; oxidoreductases..lactate dehydrogenase; embryology; cell differentiation; heart; liver; kidney; infant animals..newborn

HD-01871 WILSON, MIRIAM G., Sch. Med., Southern California, Los Angeles, Cal.
fetus; infant human; growth; congenital abnormalities

HD-01890 HAYASHI, T. TERRY, Magee Womens Hosp., Pittsburgh, Pa.
pregnancy..placenta; nucleic acids; pregnancy toxemias and hypertension; purines; pyrimidines; cell--free systems

HE-00173 GOSS, CHARLES M., Sch. Med., Louisiana State Univ., New Orleans, La.
embryology; congenital abnormalities; cardiovascular system; animal facilities; primates..squirrel monkeys

(contd)

HUMAN EMBRYOLOGY AND DEVELOPMENT (CONTD)

HE-01512 PHILLIPS, LOUISE L., College Phys. Surg., Columbia Univ., N.Y.C.
blood coagulation..plasmin; pregnancy; hemorrhage; therapy; pregnancy..postpartum; thrombosis; radiolabeled; blood coagulation..fibrinogen

HE-01755 ASSALI, NICHOLAS S., Sch. Med., Univ. California, Los Angeles, Cal.
pregnancy toxemias and hypertension; pulmonary circulation; fetus; maternal--fetal; oxygen; carbon dioxide; acid--base equilibrium; blood flow; heart function; gases; computer simulation

HE-02516 PRITCHARD, JACK A., Univ. Texas Southwestern Med. Sch., Dallas, Tex.
blood coagulation; embolism; hematopoiesis..erythropoiesis; hemolytic anemia; hemorrhage; hypochromic anemia; intestinal absorption; iron; megaloblastic anemia; pregnancy..amniotic fluid; pregnancy..missed abortion; pregnancy..placental abruption

HE-03678 HELLMAN, LOUIS M., State Univ. New York, Brooklyn, N.Y.
fetus; heart rate; phonocardiography; cardiotachometer; magnetic recording system; instrumentation; pregnancy.. placental transfer; cardioactive agents

HE-03941 LOCK, FRANK R., Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.
uterus; blood flow; pregnancy; blood pressure; sympathomimetic agents; shock; hypotension; blood circulation dynamics

HE-04062 COOPER, WILLIAM A., Jr., Sch. Exp. Biology, West Texas State Col., Canyon, Tex.
dietary deficiency; biotin; pantothenic acid; congenital abnormalities; folic acid

HE-04456 ROSENFIELD, RICHARD E., Mount Sinai Hosp., New York City, N.Y.
erythroblastosis fetalis; blood groups; hemagglutinins; gamma globulin; chromatography; serology

HE-04593 HUCKABEE, WILLIAM E., Mass. Mem. Hosp., Boston, Mass.
blood flow; fetus; hypoxia; oxygen consumption; pregnancy; sheep; uterus

HE-06042 METCALFE, JAMES, Sch. Med., Univ. Oregon, Portland, Ore.
anemia; blood circulation dynamics; blood flow; fetus; gases; growth; hypoxia; oxygen consumption; polycythemia; pregnancy..placenta; pregnancy..umbilical cord; uterus

HE-06469 NAEYE, RICHARD L., Col. Med., Univ. Vermont, Burlington, Vt.
blood circulation dynamics; capillary beds; congenital heart disease; fetus; hypoxia neonatorum; infants (human); mucin; myxedema

HE-06774 SWARTWOUT, JOSEPH R., Sch. Med., Emory Univ., Atlanta, Ga.
fetus; heart rhythm; heart rate; fats

HE-06884 LUBCHENCO, LULA O., Univ. Colorado Med. Cr., Denver, Colo.
infant human..premature infants; hemorrhage; blood coagulation; blood transfusion; electroencephalography; autopsy

HE-07100 BAUMBERGER, J. PERCY, Palo Alto Med. Res. Fdn., Palo Alto, Cal.
oxygen transport; fetus; carbon dioxide; oxygen tension; acid-base equilibrium; dehydratases..carbonic anhydrase; methemoglobin; carbon monoxide; blood cells..erythrocytes; polarography; gases; catalase

HE-07115 SCHREIBER, MELVYN H., Sch. Med., Univ. Texas Med. Br., Galveston, Tex.
pregnancy..premature delivery; heart size

HE-07116 SWARTWOUT, JOSEPH R., Sch. Med., Emory Univ., Atlanta, Ga.
heart; fetus; lipids..serum lipids; pregnancy toxemias and hypertension; pregnancy..placenta; cholesterol esters; unsaturated fatty acids

HE-07733 LICHTON, IRA J., Col. Tropical Agr., Univ. Hawaii, Honolulu, Hawaii
pituitary gland..neurohypophysis; pituitary hormones; oxytocin; vasopressin; kidney..renal tubular transport; body fluids; brain lesions; pregnancy; progesterone; estrogens; gonadotropins; diabetes

HE-07741 ROSENKRANTZ, JENS G., Univ. Colorado Med. Cr., Denver, Colo.
cardiovascular diseases; blood circulation dynamics; cardiovascular surgery; fetus; infants, animals..newborn; congenital abnormalities

HE-07780 WITTELS, BENJAMIN, Sch. Med., Duke Univ., Durham, N.C.
heart..myocardium; hyaline membrane disease, pulmonary; hypoxia neonatorum; infants, animals..newborn; pneumonia

HE-07875 FAGAN, LEONARD F., Cardinal Glennon Mem. Hosp. for Children, St. Louis, Mo.
blood volume; fetus; heart function; hemorrhage; hyaline membrane disease, pulmonary; hypoxia neonatorum; lung; pregnancy..Cesarean section; pulmonary function; pulmonary ventilation

HE-08313 HELLEGERS, ANDRE E., Johns Hopkins Hosp., Baltimore, Md.
acid-base balance; asthma; blood cells..erythrocytes; Bohr effect; carbon dioxide transport; chlorothiazide; cooperative study; glucose; hemoglobin; maternal-fetal; oxygen transport; pregnancy..placental transfer; primates.. monkeys; sulfhydryls inhibitors

HE-08378 RUDOLPH, ABRAHAM M., Albert Einstein Col. Med., New York, N.Y.
arterial occlusions; blood circulation dynamics; blood vessels shunts; blood vessels vasomotion; blood volume; catecholamines; children; congenital heart disease; heart failure; heart function; infants (human)..newborn; pregnancy..perinatal; pulmonary circulation; pulmonary edema; pulmonary function; pulmonary hypertension; pulmonary ischemia and hypoxia

HE-08449 COTTON, ERNEST K., Univ. Colorado Med. Cr., Denver, Colo.
blood pressure; bronchodilators; dead space; hypoxia neonatorum; infants (human)..premature infants; longitudinal study; muscle stretch receptors; pulmonary function; pulmonary ischemia and hypoxia

HE-09166 ZIMMERMAN, JACOB, St. Barnabas Hosp., Bronx, N.Y.
histogenesis; heart; microsurgery; lung

HE-09192 LANGFORD, HERBERT G., Univ. Mississippi Med. Cr., Jackson, Miss.
pregnancy toxemias and hypertension..eclampsia; renal hypertension; renal arterial occlusions and stenosis; nephrectomy; sodium chloride; plastic beads; adjuvants, immunology..Freund's adjuvant; diet; proteases..renin; radioisotopes..iridium 192

HE-09289 TALLEDO, EDUARDO, Med. Col. Georgia, Augusta, Ga.
pregnancy toxemias and hypertension; angiotensin; blood pressure; blood circulation dynamics; diagnostic tests

HE-09435 MAKOWSKI, EDGAR L., Univ. Minnesota Hosp., Minneapolis, Minn.
uterus; pregnancy..placenta; ovary; arteries.. arterioles; capillary beds; blood flow; tissue respiration; dyes

HE-09504 KLAUS, MARSHALL H., Stanford Med. Cr., Palo Alto, Cal.
infant humans; hyaline membrane disease, pulmonary; lung; elasticity; lung volume; thorax..intrathoracic pressure

HE-09547 SMITH, RONALD W., Univ. California Med. Cr., San Francisco, Cal.
pregnancy; pregnancy toxemias and hypertension; angiotensin; peripheral vascular system; blood vessels; norepinephrine; heart function; blood flow; uterus; pregnancy..placenta; blood volume; albumins.. serum albumin; blood vessels resistance; ischemia

HE-09715 HART, NATHAN H., Union Col., Schenectady, N.Y.
congenital heart disease..septal defect; blood circulation dynamics; histogenesis; heart.. ventricles; heart..endocardium; blood vessels transposition; cell differentiation; arterial stenosis

HE-09995 QUILLIGAN, EDWARD J., Harbor Gen. Hosp., Torrance, Cal.
fetus; cardiovascular system; bradycardia; oxygen tension; carbon dioxide tension; hydrogen--ion concentration; blood flow; arteries..carotid arteries; nervous system..vagus nerve; hypoxia; atropine; therapy evaluation; lactates; pyruvate; infant animals..newborn

NB-00951 SENSENIG, E. CARL, Med. Cr., Univ. Alabama, Birmingham, Ala.
brain..auditory cortex; brain..auditory tracts; brain.. visual cortex; brain..visual pathways; congenital abnormalities; ear surgery; embryology; eye surgery; nervous system..cochlear nerve; primates..monkeys

NB-00965 MOSS, MELVIN L., Col. Phys., Surg., Columbia Univ., N.Y.C.
congenital abnormalities; embryology; growth; head; oral-facial anomalies

NB-01296 MOORE, WARD W., Indiana Univ. Med. Cr., Indianapolis, Ind.
neuroendocrine systems; muscle stress; uterus; brain.. brain stem; brain..limbic system; pituitary hormones; electrophysiology; brain lesions; pituitary gland; blood.. plasma; LH; nervous system..central nervous system

NB-04361 CROUSE, GAIL S., Sch. Med., Temple Univ., Philadelphia, Pa.
brain..brain stem; brain..hypothalamus; fetus; ganglion, nervous system..autonomic ganglia; histogenesis; nervous system..autonomic nervous system; nervous system..preganglionic fibers; nervous system..postganglionic fibers; spinal cord

NB-04645 BAR-SELA, MILDRED E., Col. Med., Baylor Univ., Houston, Texas
brain..hypothalamus; brain..amygdala; brain lesions; electrostimulus; pituitary gland; gonadotropins; sex behavior; estrus cycle; puberty precocious

NB-04700 FINBERG, LAURENCE, Montefiore Hosp., New York, N.Y.
infectious diseases; osmotic pressure; body fluids; minerals; homeostasis; infant human; hypernatremia; membrane permeability

NB-04925 SPRATT, JAMES L., Col. Med., State Univ. Iowa, Iowa City, Iowa
bilirubin; hyperbilirubinemia; kernicterus; transferases.. glucuronyl transferase; infant animals..newborn; therapy evaluation; drugs; pregnancy..placental transfer; liver; jaundice..congenital nonhemolytic jaundice

NB-05272 HEIM, LOUISE M., Sch. Med., New York Med. Col., New York, N.Y.
estradiol; brain; growth; infant animals..newborn; tissue respiration; electroshock; oxygen consumption; nerves..myelination; epilepsy

NB-05313 **FENICHEL, GERALD M., Res. Fdn. Children's Hosp., Washington, D.C.**
muscles..myofibrils; muscles..skeletal muscles; cell types; histogenesis; fetus; enzymes; genetics; neuromuscular disorders

NB-05841 **SCHENKER, STEVEN, S.W. Med. Sch., Univ. Texas, Dallas, Tex.**
bilirubin; kernicterus; infant animals..newborn; pregnancy ..placental transfer; hypoxia; blood--brain barrier; brain..cerebrum; vitamin K; feeding; anesthesia; glucuronic acid; chloramphenicol; salicylates; sulfonamides; liver function; radiolabeled iodine; radiolabeled carbon

RH-00081 **RUGH, ROBERTS, Columbia Univ., C. Phys., Surg., N.Y.C.**
radiation effects; x-rays; embryo; infants, animal; neoplasms; cataract; leukemia; skeleton; aging

RH-00309 **CHANG, M.C., Worcester Fdn. Exptl. Biol., Shrewsbury, Mass.**
radiation effects; radioisotopes..cobalt 60; radiation sensitivity; spermatozoa; ovum; embryo; reproduction

RH-00330 **HUPP, EUGENE W., Texas AM Univ., College Station, Texas**
radiation effects; gamma rays; radioisotopes.. cobalt 60; dosage; fertility; semen; pregnancy; infant animals; longevity; physical fitness

INTERNATIONAL FELLOWSHIP REVIEW PANEL

TW-00025 **KORC, ISRAEL, Sch. Med., Universidad de la Republica, Montevideo, Uruguay**
eye..lens; cataract; proteins; fractionation; enzymes; sugar

TW-00032 **DEBERSAQUES, JEAN P., Sch. Med., Univ. Gent, Gent, Belgium**
amino acid; radiolabeled keratins; hair; radiation effects; x-rays; skin

TW-00037 **BENTAL, EPHRAIM, Hadassah Univ. Hosp., Jerusalem, Israel**
brain..visual cortex; nerves..neurons; visual stimulus; audiostimulus; sleep; potentials..evoked potentials; electrodes..microelectrodes

TW-00039 **MIZUTANI, HIROMICHI, National Inst. Health, Tokyo, Japan**
viruses..influenza viruses; hemagglutinins; chemical structure--biological activity; fractionation; immunological tests

TW-00041 **VISSER, HENDRICK K. A., State Univ. Hospital, Groningen, The Netherlands**
adrenal glands; gonads; steroids; growth; children; androgens; pregnane series

TW-00046 **HOLLDORF, AUGUST W., Univ. Freiburg, Freiburg, Germany**
thymidine triphosphate; bacteria..Escherichia coli; enzymes; deoxyribonucleic acid; viruses..bacteriophage; mutations; pyrimidine

TW-00047 **BAHMANYAR, MAHMOOD, Inst. Pasteur de l'Iran, Teheran, Iran**
laboratory facilities; rabies; disease transmission; epizootiology; diagnostic tests; geographical sites..Iran

TW-00055 **ALZAMORA, FERNANDO, Sch. Med., Univ. Minas Gerais, Belo Horizonte, Brazil**
kidney function; aldosterone; cardiac glycosides; diuretics; osmotic pressure

TW-00057 **WEIBEL, EWALD R., Univ. Zurich, Zurich, Switzerland**
lung; biomathematics; biometry; pulmonary function

TW-00058 **KURODA, YUKIAKI, Osaka Univ. Med. Sch., kitaku, Osaka, Japan**
cell differentiation; cell aggregation; genetics; mutations; organ culture; histogenesis

TW-00060 **LAVADIA, PEDRO, Jr., Philippine Gen. Hosp., Manila, Philippines**
hypothermia; muscle..skeletal muscle; quinidine; alcohols; hypoxia; acidosis; heart arrest

TW-00066 **AMARAL, DEA, Univ. Parana, Curitiba-Parana, Brazil**
fungi..Polyporaceae; galactose; polysaccharides; enzymes; oxidases..galactose oxidase; oxidative phosphorylation

TW-00071 **DELLACHA, JUAN M., Univ. Buenos Aires, Buenos Aires, Argentina**
growth hormones; instrumentation-methodology; chemical structure--biological activity

TW-00072 **VELLE, WEIERT, Veterinary Col. of Norway, Oslo, Norway**
enzymes; reductases; fructose; endocrine glands; pregnancy..placenta; seminal vesicles; glucose; d--glucitol; laboratory facilities

TW-00074 **RAKIC, LJUBISAV, Med. Faculty, Inst. Physiology, Belgrade, Yugoslavia**
brain..thalamus; brain..subcortical structures; nerve impulse inhibition; conditioning; primates..monkeys; electrostimulus; brain lesions

TW-00075 **BUTLER, GRAHAM WESLEY, D.S.I.R., Private Bag, Palmerston North, New Zealand**
linamarin; plants; radiolabeled carbon; stable isotope labeled nitrogen; tritium

TW-00076 **NIKODIJEVIC, BRANISLAV, Fac. ed., Univ. Skopje, Skopje, Yugoslavia**
hemorrhage; necrosis; norepinephrine; serotonin; histamine

TW-00077 **BHATIA, HARIKISHIN M., Indian Cancer Res. Ctr., Parel, Bombay, India**
blood groups..rare blood groups; genetics; geographical sites..India; immunology; laboratory facilities

LISTING OF GENERAL RESEARCH AREAS

TW-00078 **SUZUKI, YASUNOSUKE, Sch. Med., Keio Univ., Shinanomachi Shinjuku-ku, Tokyo, Japan**
lung..alveolus; embryology; epithelium; pinocytosis; pulmonary fibrosis

TW-00079 **HERMS, WOLFGANG, Med. Clinic, Med. Academy, Dusseldorf, Germany**
aerobiosis; anaerobiosis; antihypertensive agents; antimetabolites; electrolytes; kidney disorders; kidney function; kidney..renal medulla

TW-00081 **OUDEA, PAUL, Univ. Paris, Paris, France**
bile ducts obstruction; blood vessels shunts..portacaval shunt; electron microscopy; liver cirrhosis

TW-00082 **MORATO, TOMAS, Inst. Nacional de la Nutricion, Mexico D.F., Mexico**
prostate neoplasms; hypersensitivity; estrogens; estrone; estradiol; diethylstilbestrol; cancer chemotherapy

TW-00083 **BJORKMAN, NILS H., Royal Veterinary Col., Stockholm, Sweden**
electron microscopy; instrumentation-methodology; islands of Langerhans

TW-00087 **PAIVA, ANTONIO C.M., Escola Paulista de Medicina, Sao Paulo, S.P., Brazil**
angiotensin; binding; heparin; drugs receptors; peptides analogs; uterus..myometrium; chemical structure--biological activity

TW-00088 **FREITAS, FLAVIO MACIEL DE, Univ. Rio Grande do Sul, Porto Alegre, Brazil**
bradykinin; pulmonary circulation; blood vessels resistance; pulmonary hypertension; arterial infusions; reserpine; dextran; heart function

TW-00089 **KOIVUSALO, MARTTI JL, Univ. Helsinki, Helsinki, Finland**
bacteria..Streptococcus faecalis; amidases..biotinadase; chemical structure--biological activity; bioassay; tissue; laboratory facilities

TW-00090 **BREATHNACH, CHAOIMHGHIN S., Sch. Med., University Col., Dublin, Ireland**
hemoglobin; hemoglobin-F; fetus; infants, animals.. newborn; blood cells..erythrocytes; dehydratases.. carbonic anhydrase

TW-00095 **DAUNE, MICHEL, Centre de Recherches sules Macromolecules, Strasbough, France**
deoxyribonucleic acid; messenger ribonucleic acid; water, adsorption; soluble ribonucleic acid; cell components..ribosomes; proteins; amino acid; chemical structure--biological activity; viruses.. tobacco mosaic virus; peptide templates

TW-00096 **GUERRA-GARCIA, ROGER, Inst. Investigaciones de Altitud, Lima, Peru**
testosterone; altitude; geographical sites..Peru; hypoxia

TW-00098 **MORRISON, JOHN F., Australian National Univ., Canberra City, ACT Australia**
phosphotransferases..ATP; guanidino phosphotransferases; phosphotransferases..ATP; creatine phosphotransferase; phosphotransferases..ATP;L-arginine phosphotransferase; metal complexes; magnesium; manganese; calcium; nucleotides; binding

TW-00099 **TOERIEN, MATTHEUS J., Univ. Stellenbosch, Stellenbosch, S. Africa**
ear..auditory ossicles; transplantation; radioisotopes; embryology; skeleton; phylogeny

TW-00100 **STITNIMANKARN, TINRAT, Siriraj Hosp., Bangkok, Thailand**
liver cirrhosis; hepatoma; hepatitis; kwashiorkor; fatty liver; dietary deficiency; geographical sites..Thailand

TW-00103 **HOPSU, VAINO K., Univ. Turku, Turku, Finland**
thyroid gland; thyroid function; enzymes; chemical structure--biological activity; thyroxine; synthesis

TW-00104 **ROSSI, CARLO R., Univ. Padova, Padova, Italy**
guanosine triphosphate; fatty acids; enzymes; cell components..mitochondria

TW-00105 **SANTOS, DAVID, Hosp. de Pediatria, Mexico, D.F., Mexico**
diagnostic tests; renal failure; infant human; kidney function

TW-00107 **PHOTAKI, IPHIGENIA, Univ. Athens, Athens, Greece**
polypeptides; synthesis; chemical structure--biological activity; sulfur amino acids

TW-00111 **MILKOVIC, STEVAN, Zavod za Ispitivanje Ijekova, Zagreb, Yugoslavia**
ACTH; prolactin; growth hormones; adrenal glands; pituitary neoplasms; pregnancy..placental transfer; dosage

TW-00112 **SKOLD, OLA E., Kem. Inst. II, Karolinska Inst., Stockholm, Sweden**
phosphotransferases..RNA nucleotidyltransferase; chemical structure--biological activity; bacteria.. Escherichia coli; viruses..bacteriophage T4; enzymes; host--virus

TW-00113 **HERTZ, LEIF, Univ. Copenhagen, Copenhagen, Denmark**
brain; ion exchange and transport; oxygen consumption; potassium; sodium; nerves..neuroglia; nerves..neurons

TW-00115 **ROSSI, CARLO S., Inst. Chimica Biologica, Padova, Italy**
calcium; phosphates; ion exchange and transport; cell components..mitochondria; oxidative phosphorylation; electron transport; membrane permeability and transport

TW-00116 **DILOKSAMBANDH, VICHIEN, Siriraj Hosp., Bangkok, Thailand**
diet; proteins; dietary deficiency; growth factors; hormones analogs; growth hormones; endocrine glands; bone; hematopoietic tissues; dwarfism; radiolabeled sulfur

(contd)

INTERNATIONAL FELLOWSHIP REVIEW PANEL (CONTD)

TW-00117 BERCOVICI, BRUNO, Rothschild Hadassah Univ. Hosp., Jerusalem, Israel
macrophages; radiation effects; bacteria..Staphylococcus; peritoneal cavity; phagocytosis

TW-00120 ENOMOTO, MAKOTO, Faculty Med., Univ. Tokyo, Hongo, Tokyo, Japan
liver function; liver damage; liver cirrhosis; N--hydroxy'ation reactions; amines; amides; toxins; carcinogens; AAF

TW-00121 AUKLAND, KNUT, Ullevaal Hosp., Oslo, Norway
blood flow; instrumentation--methodology; hydrogen

TW-00123 CUENCA, EDUARDO, Sch. Med., Barcelona Univ., Barcelona, Spain
stimulants..antidepressants; imipramine; desmethyl-imiramine; drugs interaction

TW-00125 BERGENTZ, SVEN E., Univ. Goteborg, Goteborg, Sweden
embolism; blood cells..thrombocytes; blood..plasma; oxygenation; blood coagulation..anticoagulants; lung

TW-00126 KENTERA, DUSAN, Inst. Med. Res., Beograd, Yugoslavia
pulmonary circulation; blood circulation dynamics; blood vessels shunts..arteriovenous shunt; serotonin; acetylcholine; norepinephrine; pulmonary hypertension; blood transfusions; valvular heart diseases..mitral stenosis

TW-00127 MARES-GUIA, MARCOS L., Fac. Med., Univ. Minas Gerais, Belo Horizonte, Brazil
proteases..trypsin; reaction sites; hydrophobic bonds; tyrosine; enzyme inhibitors; diazo compounds

TW-00128 CAPUTO, CARLO, Inst. Venezolano Invest. Cientificas, Caracas, Venezuela
nerve impulse transmission; muscle contraction; membrane permeability and transport; muscles.. myofibrils; potentials..membrane potentials; electro-stimulus; ions..cation

TW-00129 SPENCER SILVER, PETER H., Middlesex Hosp. Med. Sch., London, England
electron microscopy; embryonic induction; eye.. lens; ribonucleic acid; transformation

TW-00130 MIZUNO, HIDEO, Col. Agr., Vet. Med., Nihon Univ., Tokyo, Japan
lactation; emotional crisis; oxytocin; prolactin; drugs; secretory mechanisms

TW-00131 SARIC, MARKO, Inst. Med. Res., Zagreb, Yugoslavia
medical records; occupations; industry; chronic disease; epidemiology; cardiovascular diseases; respiratory diseases; ecology, human; geographical sites..Yugoslavia

TW-00132 ASENSIO, CARLOS, Inst. Gregorio Maranon, Madrid, Spain
oxidoreductases..galactose oxidase; uronic acids; enzyme substrate; fungi..Fusarium; fungi..Helmin-thosporium; chemical structure

TW-00133 CHANG, CHUAN-CHIUNG, Col. Med., National Taiwan Univ., Taipei, Taiwan, China
nerve impulse transmission; sympathomimetic agents; sympatholytic agents; norepinephrine; binding; fractionation

TW-00135 ASTRUC, JUAN, Fac. Med., Univ. Navarra, Pamplona, Spain
brain..cerebral cortex; brain lesions; brain mapping

TW-00136 WIEDERMANN, GERHARD, Univ. Vienna, Vienna, Austria
immunology..autoantibodies; liver; cell components.. lysosomes; hepatotoxins; complement--fixation tests

TW-00137 KEISER, GEORG A., Medizinische Univ.-Poliklinik Kantonspital, Zurich, Switzerland
life cycle; blood cells..lymphocytes; hematopoiesis; cell types; cell migration; spleen; radiation effects; tritium

TW-00138 EICHNER, DIETRICH, Univ. Muenster, Muenster, Germany
single cell analysis; ganglicytes; nerves.. neuroglia; instrumentation--methodology

TW-00139 CERELIDO, MARCELINO, Univ. Buenos Aires, Buenos Aires, Argentina
potentials..membrane potentials; ion exchange and transport; membrane permeability and transport; skin; sodium; potassium

TW-00140 FRANCO-BROWDER, SALVADOR, Inst. Nacional de Cardiologia, Mexico, D.F., Mexico
chondrogenesis; cartilage; tissue culture; germ layers; notochord; spinal cord

TW-00151 SCHLESINGER, MICHAEL, Hebrew Univ.-Hadassah Med. Sch., Jerusalem, Israel
immunology..isoantigens; infant animals..newborn; genetic strains; cell differentiation; maternal--fetal; thymus; spleen

TW-00152 BECKER, YECHIEL, Hebrew Univ.-Hadassah Med. Sch., Jerusalem, Israel
viruses..Vaccinia virus; virus replication; deoxyribo-nucleic acid; messenger ribonucleic acid; cell components; enzymes; HeLa cells

TW-00153 SAUNDERS, STUART J., Univ. Cape Town, Cape Town, South Africa
amino acids; membrane permeability and transport; intestines; liver; brain; kidney..renal tubules; galactose; diet; galactose--1--phosphate; adenosine triphosphate; phosphorylation

TW-00154 WESTERMAN, RODERICK A., Sch. Med., Monash Univ., Clayton, Victoria, Australia
regeneration; fish; smell; nervous system..olfactory nerve; brain..olfactory bulb; brain..commissures (unspecified); electrophysiology; choline esterase

TW-00155 HIROTA, KAZUTOSHI, Sch. Med., Chiba Univ., Chiba, Japan
gastrointestinal transplantation; transplantation.. homotransplantation; gastric pouch; neck; blood vessels revascularization; stomach..gastric juice

TW-00156 HAIDER, MANFRED, Univ. Vienna, Vienna, Austria
psychophysiology; alertness--vigilance; threshold; fatigue; stress; performance; occupational hazards

TW-00157 JARNUM, STIG, Rigshospitalet, Copenhagen, Denmark
gastrointestinal system; enteritis; hypoproteinemia; blood proteins..plasma proteins; epithelium; membrane permeability and transport; lymph flow; radiolabeled iodine

TW-00159 VAN STEVENINCK, JOHNNY, Univ. Leiden, Leiden, The Netherlands
sugars; ion exchange and transport; fungi..yeasts; polyphosphates

TW-00160 LEE, GEORGE C.Y., National Taiwan Univ. Hosp., Taipei, Taiwan
viruses..Japanese B encephalitis virus; cell culture; vaccines; primates..monkeys

TW-00161 EGUCHI, YASUNOBU, Col. Agr., Univ. Osaka Prefecture, Osaka, Japan
endocrine glands; fetus; embryology; pregnancy; maternal--fetal; veterinary medicine

TW-00163 HAYMAN, BRIAN I., Massey Univ., Palmerston North, New Zealand
genetics..genotypes; mathematical models; social organization; publications

TW-00164 BRAVO, MARIA C., Centro Investicaciones Biologicas, Madrid, Spain
nervous system..autonomic nervous system; electro-stimulus; nerves..motor neurons; spinal cord..lumbo--sacral spinal cord; single cell analysis; ganglionic blocking agents; potentials..evoked potentials

TW-00165 BLAKLEY, RAYMOND L., John Curtin Sch. Med. Res., Australian National Univ., Canberra, A.C.T., Australia
vitamin B12 coenzymes; ribonucleotides; deoxyribonucleo-tides; reduction; bacteria..Lactobacillus leichmannii

TW-00166 TATIBANA, MASAMITI, Fac. Med., Kyoto Univ., Kyoto, Japan
bone marrow; nucleic acids; pyrimidines; hematopoietic tissues; pyrimidine nucleotides; carbamyl phosphate; blood cells

TW-00168 MADSEN, JOOP J., Medicinsk-Fysiologisk Inst., Copenhagen, Denmark
carbohydrates; Krebs cycle; radiolabeled carbon; fatty acids

TW-00169 GILLESPIE, IAIN E., Univ. Glasgow, Glasgow, Scotland
gastrin; stomach..gastric juice; peptic ulcer; gastrectomy; histamine; gastric pouch; secretin; cholecystokinin; vagotomy

TW-00170 ASCARI, MANOOCHEHR, Sch. Med., Tehran Univ., Teheran, Iran
immunity..cross immunity; fungi..Histoplasma capsulatum; immunology..antigens; biologic false positive reaction; skin tests; immunological tests; histoplasmosis; soilborne microbes; respiratory disorders; infectious diseases; epidemiology; geographical sites..Asia

TW-00172 TONDER, OLAV, Sch. Med., Univ. Bergen, Bergen, Norway
arthritis..rheumatoid arthritis; rheumatoid factors; immunological tests; immunology

TW-00173 ANDERSSON, SVEN O., Karolinska Inst., Stockholm, Sweden
intestines..duodenum; hydrogen--ion concentration; stomach..gastric juice inhibitors; peptic ulcer

TW-00174 CHINO, HARUO, Col. General Educ., Univ. Tokyo, Tokyo, Japan
fats; ion exchange and transport; lipoproteins; chemical structure

TW-00175 LYNGSOE, JENS, Arhus Kommunehospital, Arhus, Denmark
insulin; diabetes; obesity; blood flow; peripheral vascular system; radioisotopes..xenon 133

TW-00199 GIUDICE, GIOVANNI, Inst. Anatomia Comparata, Palermo, Italy
proteins; cell components..ribosomes; cell components.. mitochondria; cell components..polysomes; cell aggregation; ribonucleic acid; fertilization

TW-00219 NAGATSU, TOSHIHARU, Sch. Dent., Aichigakuin Univ., Nagoya, Japan
oxidoreductases..monoamine oxidase; solubility; spermine

MEDICINAL CHEMISTRY

AI-01278 RINEHART, KENNETH L., Grad. Sch., Univ. Illinois, Urbana, Ill.
neomycin; streptolydigin; nybomycin; tetrin; synthesis

AI-01425 OVERBERGER, C.G., Polytechnic Inst., Brooklyn, N.Y.
sulfhydryls; polymers; monomers; oxidation; reaction rates (chemistry); stereochemistry; synthesis

AI-01703 LOOKER, JAMES H., Grad. Sch., Univ. Nebraska, Lincoln, Nebr.
bactericides; chemical structure--biological activity; flavones; flavonol; flavoquinones; kojic acid; meconic acid; pyrones derivatives; rutin; synthesis

AI-02095 SCHAFFNER, CARL P., Rutgers, The State Univ., New Brunswick, N. J.
amphotericin-B; antibiotics; candicidin; candidin; chemical structure-biological activity; fungicides; perimycin; polyenes; trichomycin

AI-02923 **GILLIS, BERNARD T.**, Grad. Sch., Duquesne Univ., Pittsburgh, Pa.
hydrazones; chemotherapy; chemical structure--biological activity; oxidation

AI-03095 **RUNQUIST, OLAF A.**, Hamline Univ., St. Paul, Minn.
dissociation constants; D-glucosamine..aryl-D-glucosamine; glucose; hydrogen-ion concentration; hydrolysis; ionic strength; synthesis; transglucosylation

AI-03380 **BINKLEY, STEPHEN B.**, Sch. Med., Univ. Illinois, Chicago, Ill.
colominic acid; saccharides; glycosides; N--acetylneuraminic acid; enzymes inhibitors; carbohydrases..neuraminidase; chemical structure--biological activity; N--acetylneuraminic acid analogs; synthesis

AI-03835 **HARWOOD, H. JAMES**, Grad. Sch., Univ. Akron, Akron, Ohio
polypeptides; polymerization; viricides; bactericides; β-pyridyl-D,L-alanine; β-(2-hydroxypyridyl)-D,L-alanine; glutamates; serine; resolution; tyrosine; synthesis; amino acid sequence

AI-04156 **NEILANDS, JOHN B.**, Grad. Sch., Univ. California, Berkeley, Cal.
cyclic compounds; polypeptides; iron; ion; 2-amino-5-hydroxyaminovaleric acid; ferriporphyrins; synthesis

AI-04221 **MUXFELDT, HANS**, Grad. Sch., Univ. Wisconsin, Madison, Wis.
oxytetracycline; synthesis

AI-04419 **STRONG, FRANK M.**, Grad. Sch. Agr., Univ. Wisconsin, Madison, Wis.
chemical structure; β--aminopropionitrile; tropocollagen; polymers; lathyrism; alkaloids; peas; clover; saliva; fungi..molds; corn; pheromones; toxins; amino acids; metabolites

AI-04701 **NOBLES, LEWIS**, Grad. Sch., Univ. Mississippi, University, Miss.
heterocyclic compounds; virus inhibitors; synthesis; substitution reactions (chemistry); chemical structure--biological activity; benzimidazoles; thiosemicarbazone

AI-04720 **MUNK, MORTON E.**, Grad. Sch., Arizona State Univ., Tempe, Ariz.
chemical structure; stereochemistry; actinbolin; synthesis; antineoplastic agents; cooperative study; infectious diseases; screening

AI-04788 **ALLEN, C. FREEMAN**, Pomona Col., Claremont, Cal.
algae..Scenedesmus; algae..Chlorella; lipids; fractionation; chemical structure; protozoa..Euglena; cell components..chloroplasts

AI-04797 **EPSTEIN, WILLIAM W.**, Sch. Chem., Univ. Utah, Salt Lake City, Utah
antibiotics; analgesics..antipyretics; fungi..Fomes; metabolites; chemical structure--biological activity; screening; tuberculosis; bacteria..Staphylococcus aureus

AI-04798 **WASSERMAN, HARRY H.**, Grad. Sch., Yale Univ., New Haven, Conn.
antibiotics; bacteria; chemical structure; fungi..actinomycetes; metabolites; microbial culture; mutations; pigments; pyrrole

AI-04888 **RAPOPORT, HENRY**, Grad. Sch., Univ. California, Berkeley, Cal.
chemical structure; pigments; chlorophyll; photosynthesis; pyrrole; polycyclic compounds; prodigiosin analogs; bacteria..chlorobium thiosulfatophilum

AI-04965 **MARSHALL, JAMES A.**, Northwestern Univ., Evanston, Ill.
lactones; molecular rearrangement; sesquiterpenes; stereochemistry; synthesis; vetivone

AI-05102 **van TAMELEN, EUGENE E.**, Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.
antibiotics; cephalosporin C; chemical structure; ergot alkaloids; lysergic acid; novobiocin; oligomycin; penicillin; synthesis

AI-05132 **CASTRO, CHARLES E.**, Grad. Sch., Univ. California, Riverside, Cal.
copper; ligands; substitution reactions (chemistry); anthelmintics; synthesis; organic compounds

AI-05133 **CANNON, JOSEPH G.**, Sch. Phar., State Univ. Iowa, Iowa City, Iowa
amebicides; fungicides; 8-hydroxyquinoline; synthesis

AI-05286 **HENERY-LOGAN, KENNETH R.**, Grad. Sch., Univ. Maryland, College Park, Md.
synthesis; penicillin analogs; bacteria; genetic strains; oxygen

AI-05378 **BLANK, FRITZ**, Skin, Cancer Hosp., Philadelphia, Pa.
fungi..Trichophyton; pigments; crystallography; chemical structure; taxonomy; fungi..Dermatophytes; metabolites

AI-05408 **BERCHTOLD, GLENN A.**, Massachusetts Inst. Tech., Cambridge, Mass.
synthesis; 1,3-cyclohexadienes; heterocyclic compounds; stereochemistry; substitution reactions (chemistry)

AI-05409 **BAKER, W.A., Jr.**, Col. Liberal Arts, Syracuse Univ., Syracuse, N.Y.
tetracycline; metal; metal chelates; molecular structure; binding; functional groups; electron charge distribution; chemical structure--biological activity

AI-05539 **STAMMER, CHARLES H.**, Sch. Arts, Sci., Univ. Georgia, Athens, Ga.
D-cycloserine; isoxazoles; enzymes inhibitors; amino acid; synthesis; bacteria; cell components..cell wall; amino acid analogs; chemical structure--biological activity; bactericides

AI-05611 **MEYERS, ALBERT I.**, Louisiana State Univ., New Orleans, La.
synthesis; antibiotics analogs; antibiotics..penicillin; antibiotics..cephalosporin C; heterocyclic compounds; cyclization

AI-05632 **MANDELL, LEON**, Grad. Sch. Arts, Sci., Emory Univ., Atlanta, Ga.
antineoplastic agents; antibiotics; cyclic compounds; mitomycin; synthesis

AI-05661 **CLARKE, WILBUR B.**, Southern Univ., Baton Rouge, La.
antineoplastic agents; heterocyclic compounds; synthesis; thiosemicarbazone; virus inhibitors

AI-05669 **COREY, E.J.**, Harvard Univ., Cambridge, Mass.
alkylation; antibiotics; antimetabolites; cyclization; fungi; polynucleotides; polynucleotides; synthesis

AI-05671 **PATTERSON, JOHN M.**, Univ. Kentucky, Lexington, Ky.
piperidines; analgesics; muscle relaxants..antispasmodics; nitro group; chemical structure--biological activity; synthesis; substitution reactions (chemistry)

AI-05817 **BURCKHALTER, JOSEPH H.**, Sch. Pharm., Univ. Michigan, Ann Arbor, Mich.
immunofluorescence; immunology; antibodies; fluorescent dyes; isothiocyanate; proteins; binding; synthesis; chemical structure

AI-06206 **MUXFELDT, HANS**, Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.
tetracycline; synthesis; chemical structure--biological activity; antibiotics; antimetabolites

AI-06302 **STILLE, JOHN K.**, State Univ. Iowa, Iowa City, Iowa
cinnoline; synthesis; diketones; cyclic compounds; hydrazines; molecular structure; instrumentation--methodology; chemical structure--biological activity; antitubercular agents

AI-06303 **BOROWITZ, IRVING J.**, Col. Eng., Lehigh Univ., Bethleham, Pa.
lactones; synthesis; antibiotics; methymycin; molecular structure; stereochemistry; chemical structure--biological activity

AI-06328 **TARBELL, D. STANLEY**, Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.
antibiotics; fumagillin; actinospectacin; ristocetin A; antibiotics analogs; molecular structure; chemical structure--biological activity; synthesis; antineoplastic agents

AI-06662 **DONARUMA, L. GUY**, Clarkson Col. Tech., Potsdam, N.Y.
synthesis; monomers; polymers; chemical structure--biological activity; antimicrobial agents; antimalarials; analgesics; antineoplastic agents; sulfonamides; troponones; salicylates

AI-06798 **DOORENBOS, NORMAN J.**, Sch. Pharm., Univ. Mississippi, University, Miss.
azasteroids; antimicrobial agents; synthesis; chemical structure--biological activity; chemotherapy

AM-00703 **KHARASCH, NORMAN**, Univ. Southern California, Los Angeles, Cal.
thyroxine analogs; photochemistry; heterocyclic iodo compounds; synthesis; 3,5-diphenylthyronines; radiation effects; thyroxine

AM-02398 **GUTSCHE, C. DAVID**, Grad. Sch., Washington Univ., St. Louis, Mo.
N-acetylglycine; acetylphosphate; catalysts..polyfunctional catalysts; chemical bonds..bond formation; dihydroxyacetone; fructose; glyceraldehyde; glycine; ion..cations; molecular condensations; sorbose; synthesis

AM-03437 **HIGUCHI, TAKERU**, Sch. Pharm., Univ. Wisconsin, Madison, Wis.
binding; chemical structure; catalysts; oxidative phosphorylation; methionine; thioethers

AM-03439 **STEVENSON, ROBERT**, Sch. Sci., Brandeis Univ., Waltham, Mass.
chemical structure; molecular rearrangement; steroids; trimethylsteroids; triterpenes

AM-03787 **JOHNSON, WILLIAM S.**, Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.
synthesis; steroid; alkaloids; terpenoids; cyclic compounds; conessine; veratramine; pentacyclic triterpenes; conformations (chemistry)

AM-03868 **GOODMAN, MURRAY**, Polytechnic Inst. Brooklyn, Brooklyn, N.Y.
amino acids; peptides; racemization; chloroformates; synthesis; oxazolinones; optical rotation

AM-03943 **RUBIN, MORDECAI B.**, Carnegie Inst. Tech., Pittsburgh, Pa.
stereochemistry; 20-ketosteroids; synthesis; bioassay

AM-04215 **MEYER, WALTER L.**, Sch. Arts, Sci., Indiana Univ., Bloomington, Ind.
synthesis; diterpenes; alkaloids; atisine

AM-05014 **SPENCER, THOMAS A.**, Dartmouth Col., Hanover, N.H.
terpenes; synthesis; stereochemistry; cyclization; amination (chemistry)

AM-05016 **WOLFF, MANFRED E.**, Sch. Pharm., Univ. California, San Francisco, Cal.
free radicals; steroids analogs; methyl groups

AM-05018 **PRIVETT, ORVILLE S.**, Hormel Inst., Austin, Minn.
chemical structure; gas chromatography; gonads; heart; lipids; liver; stereochemistry; unsaturated fatty acids

AM-05098 **PATCHORNIK, ABRAHAM**, Weismann Inst. Sci., Rehovoth, Israel
amino acid; peptides; dehydroalanines; hydrolysis; sulfonium compounds; serine; pyruvates

(contd)

LISTING OF GENERAL RESEARCH AREAS

MEDICINAL CHEMISTRY (CONTD)

AM-05183 **TANABE, MASATO,** Stanford Res. Inst., Menlo Park, Cal.
seco steroids; hormones analogs; steroid analogs

AM-05326 **CASPI, ELIAHU,** Worcester Fdn. Exptl. Biol, Shrewsbury, Mass.
aldosterone inhibitors; antigonadotropic agents; antineoplastic agents; chemical structure--biological activity; cortisone; estrogens inhibitors; hydrocortisone; progesterone; pyrimidine; steroids analogs; synthesis; testosterone

AM-05490 **ZALKOW, LEON H.,** Oklahoma State Univ., Stillwater, Okla.
hydroxyeremophilone; chemical structure; diosphenols; sesquiterpenes; synthesis

AM-05492 **GEORGIAN, VLASIOS,** Tufts Univ., Medford, Mass.
episteroids; norsteroids; oxidation; stereochemistry; steroids; synthesis

AM-05620 **LAUDGREBE, JOHN A.,** Grad. Sch., Univ. Kansas, Lawrence, Kans.
free radicals; oxidation; disproportionation reactions (chemistry); deuterium; olefins; alcohols; stereochemistry

AM-05836 **ALLINGER, NORMAN L.,** Grad. Sch., Wayne State Univ., Detroit, Mich.
conformations (chemistry); 2,3-epoxy steroids; dipole moments; 4,4-dimethylandrostan-3,17-dione; 17-keto-D-homo steroids

AM-06180 **CHANLEY, J.D.,** Mount Sinai Hosp., New York, N.Y.
saponins; chemical structure; steroids; aglycones; enzyme inhibitors; hemolysins

AM-06224 **SINSHEIMER, JOSEPH E.,** Col. Pharm., Univ. Michigan, Ann Arbor, Mich.
gymnemic acid; medicinal plants..Gymnema sylvestre; chemical structure

AM-06419 **COHEN, THEODORE,** Univ. Pittsburgh, Pittsburgh, Pa.
sulfonates; esters; 3β--methyl--3α--cholestanol; bicyclo(4.4.0.)decanes; acetates; nucleophilic substitution; solvolysis; conformations (chemistry); halides; ammonia; amines; nitrous acid; deamination; steroids; deuterium; stereochemistry; synthesis

AM-06432 **GEARIEN, JAMES E.,** Sch. Pharm., Univ. Illinois, Chicago, Ill.
N-alkyl-1,2,3,4-tetrahydro-4-oxyquinolines; screening; synthesis

AM-06466 **ORCHIN, MILTON,** Col. Arts, Sci., Univ. Cincinnati, Cincinnati, Ohio
catalysts; cyclization; diazoacetic esters; diethylstilbesterol; 2,3-diphenylcyclopropanecarboxylic acid; isomers..cis-trans isomerizations; phenanthrenes; selenium; stilbenes; synthesis; ultraviolet rays

AM-06480 **ZENKER, NICOLAS,** Sch. Pharm., Univ. Maryland, Baltimore, Md.
antithyroid compounds; chemical structure--biological activity; diphenylmethane; enzymes inhibitors; p-hydroxyphenoxyacetic acids; synthesis; thyroid function; thyroid hormones; transferases..catechol-O-methyl transferase

AM-06782 **WHISTLER, ROY L.,** Purdue Univ., Lafayette, Ind.
synthesis; carbohydrates analogs; glycosides; sulfur; nitrogen; molecular rearrangement; chemical structure--biological activity

AM-06786 **ALLINGER, NORMAN L.,** Grad. Sch., Wayne State Univ., Detroit, Mich.
synthesis; digitonin; isomers; 15-ketosteroids

AM-06829 **HINE, JACK,** Grad. Sch., Georgia Inst. Tech., Atlanta, Ga.
catalysts..polyfunctional catalyst; functional groups; amine; ion exchange and transport; aldehydes; ketones; chemical structure; aldolase; isomerases; deuterium; stereochemistry; hydrogen

AM-06834 **HABERFIELD, PAUL,** Brooklyn Col., Brooklyn, N.Y.
azasteroids; ketosteroids; molecular rearrangement; synthesis

AM-06890 **ROBERTSON, ALEXANDER V.,** Grad. Sch. Chem., Univ. Sydney, Sydney, Australia
collagen; proline; hydroxyproline; antimetabolites; isomers; molecular structure; collagen diseases

AM-06900 **SOLO, ALAN J.,** Sch. Pharm., State Univ. New York, Buffalo, N.Y.
synthesis; progesterone analogs; testosterone analogs; androgens analogs; androstane; chemical structure--biological activity

AM-07010 **ZALKOW, LEON H.,** Col. Arts, Sci., Oklahoma State Univ. Agr. Applied Sci., Stillwater, Okla.
chemical structure; drugs; grasses; sesquiterpenes; taxonomy

AM-07193 **TIMELL, TORE E.,** State Univ. Col. Forestry, Syracuse Univ., Syracuse, N.Y.
acid; aglycones; chemical structure; functional groups; glucuronic acid; glycosides; hydrolysis; oligosaccharides; pseudoaldobiouronic acids; reaction rates (chemistry); stereochemistry; synthesis; xylose

AM-07505 **BERSON, JEROME A.,** Col. Letters, Sci., U. Wisconsin, Madison, Wis.
bicyclic compounds; molecular rearrangement; stereochemistry; steroids; triterpenes

AM-07520 **CHAPMAN, ORVILLE L.,** Col. Sci., Humanities, Iowa State Univ., Ames, Iowa
conjugates; cyclization; ion; ketones; ligands; metal complexes; molecular rearrangement; molecular structure; olefins; organic compounds; photochemistry; polar molecules; proteins denaturation; pyridoxal; radioisotopes.. uranium; stereochemistry; unsaturated compounds; valine; zinc

AM-07684 **JOULLIE, MADELEINE M.,** Univ. Pennsylvania, Philadelphia, Pa.
antimetabolites; vitamin K; quinoxalines; synthesis; chemical structure--biological activity; antineoplastic agents; fungicides

AM-07734 **FACKLER, JOHN P., Jr.,** Case Inst. Technology, Cleveland, Ohio
metal chelates; amine; Schiff bases; molecular structure; bases; addition reactions (chemistry); molecular rearrangement

AM-07762 **BOND, F. THOMAS,** Sch. Sci., Oregon State Univ., Corvallis, Ore.
chemical structure--biological activity; conformations (chemistry); criteria; functional groups; steroid hormones; steroids; synthesis

AM-07770 **DITTMER, DONALD C.,** Col. Liberal Arts, Syracuse Univ., Syracuse, N.Y.
carbenes; dihydropyridines; enzymes complexes; enzymes models; functional groups; hydrogen transport; NADH2; nicotinamide; oxidation-reduction

AM-07771 **MARVELL, ELLIOT N.,** Oregon State Univ., Corvallis, Ore.
chemical bonds..bond cleavage; conformations (chemistry); dihydropyridines; molecular rearrangement; nitrogen; synthesis; temperature

AM-07786 **ROBINSON, CECIL H.,** Sch. Med., Johns Hopkins Univ., Baltimore, Md.
azasteroids; chemical structure--biological activity; enzymes complexes; nitrogen; steroid hormones; substitution reactions (chemistry); synthesis

AM-07832 **WILDS, ALFRED L.,** Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.
steroids; synthesis; cholesterol; bile acids and salts; aglycones; cardiac glycosides; substitution reactions (chemistry)

AM-08009 **TACKETT, STANFORD L.,** Col. Liberal Arts, Arizona State Univ., Tempe, Ariz.
5,6-dimethylbenzimidazole cobamide; reduction; chemical structure; oxidation-reduction; reaction rates (chemistry)

AM-08064 **WHITLOCK, HOWARD W., Jr.,** Univ. Wisconsin, Madison, Wis.
quinones; stereochemistry; dehydrogenation; acenaphtene; polyenes; vitamin B12; cobalt; conjugates; deuterium

AM-08066 **JORGENSEN, EUGENE C.,** Sch. Pharm., Univ. California Med. Cr., San Francisco, Cal.
synthesis; peptides analogs; chemical structure--biological activity; chemical structure; angiotensin--II; bioassay; hypertension (systemic); amino acid analogs; angiotensin analogs

AM-08517 **HUYSER, EARL S.,** Grad. Sch., Univ. Kansas, Lawrence, Kans.
oxidation--reduction; hydrogen transport; free radicals; electron transport; alcohols; amines; peroxides; disulfide bonds; ketoacids

AM-08534 **CLOSS, GERHARD L.,** Sch. Physical Sci., Univ. Chicago, Chicago, Ill.
porphins; reduction; chlorophyll; photochemistry; electronic spectra; molecular orbitals; molecular structure

AM-08590 **RISINGER, GERALD E.,** Col. Chem., Physics, Louisiana State Univ., Baton Rouge, La.
thiamine; fluorescence; chemical structure--biological activity

AM-08596 **DANISHEFSKY, SAMUEL,** Univ. Pittsburgh, Pa.
steroids; synthesis; instrumentation--methodology; carbenes

AM-08737 **ENDICOTT, JOHN F.,** Grad. Sch., Boston Univ., Boston, Mass.
vitamin B12; cobamides; cobalt; amines; cyclic compounds

AM-08888 **RICHARDS, JOHN H.,** California Inst. Technology, Pasadena, Cal.
hydroxylation reactions; reaction sites; aromatic compounds; oxidation; radioisotopes; substitution reactions (chemistry); metals; metal oxides; ligands; amines; oxides; dihydropyridines; enzymes

AM-09003 **RODIG, OSCAR R.,** Col. Arts, Sci., Univ. Virginia, Charlottesville, Va.
synthesis; steroids analogs; pyrazines; androgens; adrenal cortex hormones; molecular structure; chemical structure--biological activity

AM-09265 **BAISTED, DEREK J.,** Sch. Sci., Oregon State Univ., Corvallis, Ore.
plants; reaction sites; time; steroids; terpenes; cyclization; chemical structure--biological activity; sterols; cholesterol inhibitors; cell--free systems

AM-09279 **LEVINE, SAMUEL G.,** North Carolina State of Univ. North Carolina, Raleigh, N.C.
steroids; conformations (chemistry); unsaturated compounds; cyclic compounds; dienes; epoxides; deuterium; synthesis

AM-09303 **MORIARTY, ROBERT M.,** Grad. Sch. Arts, Sci., Catholic Univ. of America, Washington, D.C.
ergosterol; radiation effects; ultraviolet rays; photochemistry; temperature; toxicology

AM-09468 **STILLWELL, RICHARD N.,** Col. Med., Baylor Univ., Houston, Tex.
mucopolysaccharides; sugars; molecular structure; instrumentation--methodology

AM-09688 **SIH, CHARLES J.,** Sch. Pharm., Univ. Wisconsin, Madison, Wis.
steroids; epoxidation; hydroxylation reactions; oxidoreductases; cell components..mitochondria; actinomyces.. Nocardia; cell--free systems; stable isotope labeled oxygen

AP-00265 CORCORAN, WILLIAM H., California Inst. Technology, Pasadena, Cal.
nitrogen oxides; gases; instrumentation--methodology; reaction rates (chemistry); computer analysis; air pollution; nitrogen dioxide

AP-00325 FISHER, GERALD T., Sch. Eng., Vanderbilt Univ., Nashville, Tenn.
diffusion; halides; ammonia; salts; metal complexes; chelating agents; ligands; 8--hydroxyquinoline; equilibrium constants; ion exchange and transport; stoichiometry; stereochemistry; air pollution

AP-00343 CADLE, RICHARD D., National Cr. for Atmospheric Res., Boulder, Colo.
oxygen; atmosphere; photochemistry; air pollution; methane; sulfur dioxide; hydrogen sulfide; ammonia

AP-00349 KISTIAKOWSKY, GEORGE B., Faculty Arts, Sci., Harvard Univ., Cambridge, Mass.
laboratory facilities; carbenes; gases; molecular rearrangement

AP-00353 BENSON, SIDNEY W., Stanford Res. Inst., Menlo Park, Cal.
oxygen compounds; free radicals; chemical bonds; thermodynamics; oxidation

CA-02240 FANTA, PAUL E., Illinois Inst. Tech., Chicago, Ill.
synthesis; organic compounds; chemical structure--biological activity; sodium β-formyl-β-keto-α-nitropropionates

CA-02551 TAYLOR, EDWARD C., Princeton Univ., Princeton, N.J.
synthesis; antineoplastic agents; N--oxides; heterocyclic compounds; indoles; dihydropteridines; pyrroles; thiadiazolopyrimidines; purine; thiazinopyrimidines; pteridines; triazinopyrimidines; pyrimidines; radiation effects; ultraviolet rays; chemical structure--biological activity

CA-02714 PRICE, CHARLES C., Univ. Pennsylvania, Philadelphia, Pa.
synthesis; antineoplastic agents; porphyrin; nucleosides.. unnatural nucleosides; mallonolloin

CA-02810 LAVIE, DAVID, Weizmann Inst. Sci., Rehovoth, Israel
antineoplastic agents; cell components..cell membrane; chemical structure--biological activity; cucurbitacins; Ehrlich ascites carcinoma; elatericin; elaterin; neoplasms; plants; radiolabeled; screening; stereochemistry; tetracyclic triterpenes

CA-02931 CROMWELL, NORMAN H., Grad. Sch., Univ. Nebraska, Lincoln, Nebr.
aminobenzacridines; amino indanones; antineoplastic agents; benzophenazines; carcinogens; chemical structure --biological activity; heterocyclic compounds; indenoquinolines; indenoquinoxalines; ketones; nuclear magnetic resonance; photochemistry; quinolines; synthesis; toxins

CA-02961 ELDERFIELD, ROBERT C., Grad. Sch., Univ. Michigan, Ann Arbor, Mich.
alkylating agents; antineoplastic agents; ethyleneimines; methane sulfonate; neoplasms; nitrogen mustards; synthesis

CA-02997 RICHTER, HENRY J., Sch. Arts, Sci., Univ. Colorado, Boulder, Colo.
acenaphthene quinones; lead tetraacetate; oxidation; synthesis; quinone dibenzenesulfonimides; β--naphthylamine; antineoplastic agents

CA-03097 KLEMM, LEROY H., Grad. Sch., Univ. Oregon, Eugene, Ore.
synthesis; antineoplastic agents; phenylhydronaphthalenes; screening

CA-03231 BINKLEY, STEPHEN B., Sch. Med., Univ. Illinois, Chicago, Ill.
chemical structure--biological activity; nucleosides analogs; nucleotides analogs; synthesis; thymine; uracil

CA-03232 WOLFROM, MELVIN L., Ohio State Univ., Columbus, Ohio
antineoplastic agents; synthesis; nucleosides; nucleoside analogs; deoxy sugars; amino sugars; thiosugars; oncolysis; gallium; aminoguanidine

CA-03275 GUTSCHE, CARL D., Gra. Sch. Liberal Arts, Washington Univ., St. Louis, Mo.
boron compounds; organic compounds; synthesis; antineoplastic agents; catalysis, polyfunctional catalysts

CA-03477 DYER, ELIZABETH, Grad. Sch., Univ. Delaware, Newark, Delaware
acylation; antineoplastic agents; carbamates; 2,4-diaminopyrimidines; 4,6-diaminopyrimidines; oxyaminopyrimidines; purine analogs; pyrimidine analogs; synthesis; thiolcarbamates; thiolcarbonates

CA-03753 PINKUS, A.G., Grad. Sch., Baylor Univ., Waco, Tex.
antineoplastic agents; organophosphorus compounds; screening; synthesis

CA-03772 STEVENS, CALVIN L., Col. Liberal Arts, Wayne State Univ., Detroit, Mich.
cancer chemotherapy; nucleosides; glycosides; synthesis; antibiotics..amicetin; deoxy sugars; aldohexoses; binding

CA-03905 BOBBITT, JAMES M., Grad. Sch., Univ. Connecticut, Storrs, Conn.
synthesis; bisbenzylisoquinolines; alkaloids

CA-03908 TRUITT, B. PRICE, North Texas State Univ., Denton, Tex.
naphthoquinones; antineoplastic agents; nitrogen mustards; synthesis; hydrazines..cyclic hydrazides; acyl groups

CA-03937 MAUTNER, HENRY G., Sch. Med., Yale Univ., New Haven, Conn.
antineoplastic agents; synthesis; chemical structure--biological activity; sulfur; selenium; acyl groups; choline; coenzyme A; nucleic acids inhibitors; folic acid antagonists; purines; pyrimidines; hydrogen bond; hydrophobic bonds

CA-04065 WALBORSKY, H.M., Grad. Sch., Florida State Univ., Tallahassee, Fla.
alkylating agents; antineoplastic agents; cyclopropane; cytotoxicity; synthesis

CA-04068 SHIRLEY, DAVID A., Grad. Sch., Univ. Tennessee, Knoxville, Tenn.
antineoplastic agents; synthesis; heterocyclic compounds; nitrogen mustards; carcinolysis

CA-04073 NOLAND, WAYLAND E., Sch. Chem., Univ. Minnesota, Minneapolis, Minn.
antihypertensive agents; antineoplastic agents; bromination; carbazoles; cyclization; indoles; psychotropic drugs; synthesis; unsaturated compounds

CA-04074 PETTIT, GEORGE R., Univ. Maine, Orono, Me.
lanosterol; antineoplastic agents; synthesis; 14--α--methyl steroids; 14--β--hydroxy steroids; bufotoxin; oxysteroids; tetracyclic triterpenes; fungi

CA-04104 DANNLEY, RALPH L., Grad. Sch., Western Reserve Univ., Cleveland, Ohio
nucleotides analogs; nucleosides analogs; synthesis; purine analogs; pyrimidine analogs; molecular condensations; phosphorus; heterocyclic compounds; antineoplastic agents

CA-04132 DOORENBOS, NORMAN J., Grad. Sch., Phar., Univ. Maryland, Baltimore, Md.
anti-inflammatory agents; antineoplastic agents; azasteroids; cardioactive agents; fungicides; germicides; psychotropic drugs; screening; synthesis

CA-04253 CHAPMAN, ORVILLE L., Grad. Sch., Iowa State Univ., Ames, Iowa
colchicine; isomers; synthesis; antineoplastic agents; tropolones; cyclization; photochemistry

CA-04284 DAUBEN, WILLIAM G., Grad. Sch., Univ. California, Berkeley, Cal.
chemical structure--biological activity; A-norsteroids; B-norsteroids; synthesis

CA-04298 WILDER, PELHAM, Jr., Grad. Sch., Duke Univ., Durham, N.C.
synthesis; antineoplastic agents; alkylating agents; busulfan; azo compounds; sulfites; nitrogen mustards; carbonium ions; halogenated compounds; stereochemistry

CA-04327 CASTLE, RAYMOND N., Grad. Sch., Univ. New Mexico, Albuquerque, N. Mex.
antineoplastic agents; synthesis; cinnoline; pyridazines; phthalazine

CA-04412 VINGIELLO, FRANK A., Grad. Sch., Virginia Polytechnic Inst., Blacksburg, Va.
antineoplastic agents; synthesis; K,L and M regions; 7-phenyl-1,2-benzanthracene; isomers; nitrogen mustards; ketones; chemical structure--biological activity; carcinogens

CA-04455 HAUSER, CHARLES R., Duke Univ., Durham, N.C.
synthesis; antineoplastic agents; polyions..polyanions; sulfones; α--aminonitriles; pyrazoles; lithium; organometallic compounds; amines..tertiary amines; ketones; pyrones; pyridinones; polycarbonyl compounds; enol--enamine tautomerism

CA-04474 HASSNER, ALFRED, Grad. Sch., Univ. Colorado, Boulder, Colo.
synthesis; cyclization; steroids; heterocyclic compounds; chemical structure--biological activity; stereochemistry; functional groups; nitrogen

CA-04498 CAVA, MICHAEL P., Ohio Univ. Res. Fdn., Columbus, Ohio
α--diazoketosteroids; synthesis; antineoplastic agents; photochemistry

CA-04500 KUPCHAN, S. MORRIS, Sch. Pharm., Univ. Wisconsin, Madison, Wis.
antineoplastic agents; medicinal plants; chemical structure--biological activity; synthesis

CA-04514 BAILEY, WILLIAM J., Grad. Sch., Univ. Maryland, College Park, Md.
synthesis; antineoplastic agents; alkylating agents; polymers; methane sulfonate

CA-04536 TRUCE, WILLIAM E., Purdue Univ., Lafayette, Ind.
antineoplastic agents; sultones; sulfones; oxidation; oxidation..auto-oxidation; sulfur compounds; synthesis; molecular rearrangement; olefins

CA-04654 NOBLES, WILLIAM L., Sch. Pharm., Univ. Mississippi, University, Miss.
azasteroids; antineoplastic agents; synthesis; diethylstilbestrol analogs; hexestrol analogs; testosterone analogs; methyl testosterone analogs; hexestrol

CA-04661 BAUER, LUDWIG, Sch. Pharm., Univ. Illinois, Chicago, Ill.
cancer chemotherapy; α-cyano esters; hydroxyamic acid; N-hydroxydihydrouracil; isoxazoles; synthesis

CA-04750 LOOKER, JAMES H., Grad. Col., Univ. Nebraska, Lincoln, Nebr.
antineoplastic agents; aroyl diazo compounds; aryl serines; diazoacetic esters; dicarboxylic acids; screening; synthesis; 1,2,3-thiadiazoles

CA-04758 HAMLIN, KENNETH E., Jr., Abbott Lab., North Chicago, Ill.
conferences; cancer; nucleosides; nucleotides; purine nucleosides; publications

(contd)

MEDICINAL CHEMISTRY (CONTD)

CA-04769 RAMIREZ, FAUSTO, State Univ. New York, Stony Brook, N.Y.
synthesis; phosphorus compounds; cyclic compounds; oxyheterocyclic compounds; phosphites..phosphorus esters; carbonyl compounds; cyclic phosphates; stereochemistry; peroxides; stable isotope labeled phosphorus; protons; oxyphosphoranes; ozone; phosphoranes; levulinic acid

CA-04848 BARONE, JOHN A., Col. Arts, Sci., Fairfield Univ., Fairfield, Conn.
antimetabolites; synthesis; fluorinated compounds; 2-trifluoromethylpyrimidines; 2-trifluoromethylpurines; vitamin B complex analogs; amino acids analogs; nucleosides analogs; acid ionization constants; spectrophotometry

CA-04991 BRAUN, LOREN L., Idaho State Univ., Pocatello, Idaho
synthesis; diazopropionic acid esters; lactones; acylation; amino acid

CA-05011 CHANG, FREDERIC C., Col. Pharm., Univ. Tennessee, Memphis, Tenn.
synthesis; hormones; steroid hormones analogs; antineoplastic agents

CA-05076 BREWER, WILLIS R., Col. Pharm., Univ. Arizona, Tucson, Ariz.
medicinal plants; antineoplastic agents; geographical sites..Mexico; geographical sites..Arizona

CA-05077 JUDAY, RICHARD E., Col. Arts, Sci., Montana State Univ., Missoula, Mont.
hydronaphthalenes; antineoplastic agents; synthesis; steroid hormones; steroid hormones analogs; screening; nitrogen mustards

CA-05079 BOSE, AJAY K., Stevens Inst. Technology, Hoboken, N.J.
fluorinated compounds; synthesis; alcohols; screening; chemical structure--biological activity; antineoplastic agents; steroid hormones

CA-05083 BROWN, HENRY C., Col. Eng., Univ. Florida, Gainesville, Fla.
antineoplastic agents; fluorinated compounds; synthesis

CA-05084 BURGISON, RAYMOND M., Sch. Med., Univ. Maryland, Baltimore, Md.
synthesis; antineoplastic agents; 8-hydrazinocaffeine; 8-hydrazinotheophylline; N-(p-chlorobenzyl)-N-methylethylcarbamate; N-phenethyl-ethylcarbamate; urethan-N-substituted; theophylline; xanthines

CA-05193 BURCKHALTER, JOSEPH H., Sch. Phar., Univ. Michigan, Ann Arbor, Mich.
antineoplastic agents; azaestradiol; azaestrone; azasteroids; cancer chemotherapy; carcinoma; prostate neoplasms; synthesis

CA-05234 WHITE, EMIL H., Grad. Sch., Johns Hopkins Univ., Baltimore, Md.
medicinal plants..Achillea; achillin; hydroxy achillin; chemical structure; stereochemistry; lactones

CA-05252 GILOW, HELMUTH M., Southwestern Col., Memphis, Tenn.
antineoplastic agents; imidazoles; 1,2,4-pyrimidothiadiazine-1,1-dioxide; synthesis

CA-05267 BOBBITT, JAMES M., Grad. Sch., Univ. Connecticut, Storrs, Conn.
chemical structure; glycosides; Monotropa glycosides; Catalpa glycosides; publications..literature survey

CA-05336 LEETE, EDWARD, Grad. Sch., Univ. Minnesota, Minneapolis, Minn.
synthesis; antineoplastic agents; phenazine; indoles; anthracenes; vinca alkaloids; medicinal plants; growth; fluorinated compounds

CA-05406 VAUGHAN, WYMAN R., Grad. Sch., Univ. Michigan, Ann Arbor, Mich.
synthesis; antineoplastic agents; bicyclic acids; nitriles; lactones; bicyclo(3.2.1)octanes; chemical structure--biological activity; bromination; solvolysis

CA-05507 QUIN, LOUIS D., Grad. Sch., Duke Univ., Durham, N.C.
synthesis; organophosphorus compounds; antineoplastic agents; diarylphosphines; phosphine oxides; diaryl phosphinous chlorides; diarylphosphine oxides; phosphines

CA-05509 BRADSHER, CHARLES K., Grad. Sch., Duke Univ., Durham, N.C.
hydrocarbons; quinolizinium compounds; carcinogens; synthesis; antineoplastic agents

CA-05513 MATTESON, DONALD S., Grad. Sch., Washington State Univ., Pullman, Wash.
boronic acids; synthesis; radiation therapy; brain neoplasms; boron; neutron activation analysis (unspecified)

CA-05528 BOTTINI, ALBERT T., Univ. California, Davis, Cal.
chemical structure--biological activity; nitrogen mustards; ethylenimines; proteins; free radicals; ethyleneimonium compounds

CA-05561 HELLER, WILFREID, Wayne State Univ., Detroit, Mich.
synthesis; molecular asymmetry; chemical structure--biological activity; metal complexes; molecular rearrangement; radioisotopes; chemical bonds; neoplasms; antineoplastic agents; viricides; bactericides

CA-05639 MERTES, MATHIAS P., Sch. Pharm., Univ. Kansas, Lawrence, Kans.
synthesis; fluoromethylpyrimidines; antineoplastic agents; enzymes inhibitors; reaction sites; thymidine-5'-phosphate; deoxyuridine-5'-phosphate; enzymes

CA-05697 HALL, ROSS H., Roswell Park Mem. Inst., Buffalo, N.Y.
antimetabolites; antineoplastic agents; brain; deoxyribonucleic acid analogs; enzymes inhibitors..glutamate decarboxylase inhibitors; epilepsy; α-nucleosides; oligonucleotides; oncolysis; pyridoxine analogs; screening; synthesis

CA-05781 McKEE, ROBERT L., Grad. Sch., Univ. North Carolina, Chapel Hill, N.C.
synthesis; antineoplastic agents; molecular condensations; pyrimidines; folic acid antagonists; triazines; oxazines; pyridazines; thiazoles

CA-05796 WHEELER, DESMOND M.S., Grad. Sch., Univ. Nebraska, Lincoln, Nebr.
synthesis; diterpenoids; Diels-Alder reaction; stereochemistry; ketones; borohydride

CA-05841 ZIMMER, HANS, Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio
antineoplastic agents; 8-phosphopurines; purine analogs; synthesis

CA-05845 BAKER, BERNARD R., Sch. Pharm., State Univ. New York, Buffalo, N.Y.
antineoplastic agents; nucleosides..unnatural nucleosides; synthesis

CA-05948 FILLER, ROBERT, Illinois Inst. Technology, Chicago, Ill.
synthesis; aromatic amine acids; antimetabolites; antineoplastic agents; chemical structure--biological activity; pentafluorophenylalanine

CA-05969 KLEMM, LEROY H., Grad. Sch., Univ. Oregon, Eugene, Oregon
carcinogenesis; carcinogens; chemical structure--biological activity; K,L, and M regions; nitroaryl compounds; polycyclic compounds; stereochemistry; stereoisomers; synthesis

CA-05971 TIECKELMANN, HOWARD, State Univ. New York, Buffalo, N.Y.
synthesis; antineoplastic agents; 5--amino--4--carboxyimidazole ribotide analogs; aminoimidazole-carboxamide ribotides analogs; screening

CA-05973 POTTS, KEVIN T., Col. Arts, Sci., Univ. Louisville, Louisville, Ky.
antineoplastic agents; pyrazines; pyridine; pyrimidine; screening; synthesis; triazines; s-triazoles

CA-06038 ANDERSON, DAURENS, Grad. Sch., Agr., Univ. Wisconsin, Madison, Wis.
antineoplastic agents; cyclitols; synthesis

CA-06140 HARMON, ROBERT E., Western Michigan Univ., Kalamazoo, Mich.
sulfonates; synthesis; chemical structure--biological activity; antineoplastic agents; thiosugars; s-triazoles; sulfanilazo compounds

CA-06255 CASTRO, ALBERT J., Grad. Sch., San Jose State Col., San Jose, Cal.
synthesis; chemical structure--biological activity; antibiotics; antineoplastic agents; pyrrole

CA-06364 PAINTADOSI, CLAUDE, Sch. Pharm., Univ. North Carolina, Chapel Hill, N.C.
synthesis; orotic acid; aldehydes; thiosulfinates; screening; antineoplastic agents

CA-06419 BADGER, GEOFFREY M., Univ. Adelaide, Adelaide, South Australia
industrial wastes; combustion exhausts; smoking; hydrocarbons; carcinogens

CA-06432 NAGASAWA, HERBERT T., Veterans Admin. Hosp., Minneapolis, Minn.
synthesis; α--halolactams; amino acids; proline; imino acids; ornithine; lysine; arginine; bacteria..Escherichia coli; beans

CA-06448 BILLMAN, JOHN H., Grad. Sch., Indiana Univ., Bloomington, Ind.
antineoplastic agents; 2-bis(2-chloroethyl)amino-2H-1,3,2-oxazaphosphorinane 2-oxide; electron charge distribution; phosphorus; nitrogen; chemical bonds; hydrolysis

CA-06478 YANG, N.C., Univ. Chicago, Chicago, Ill.
carcinogenesis; aromatic compounds; hydrocarbons; chemical structure--biological activity; synthesis; antineoplastic agents; ovary neoplasms; breast neoplasms; carcinogens

CA-06492 LIN, HSI H., Grad. Sch., St. Joseph's Col., Philadelphia, Pa.
cytotoxicity; antimetabolites; purine mustards; 9--furfurylpurines; pteridine nitrogen mustards; nitrogen mustards; estrone

CA-06536 MERTES, MATHIAS P., Sch. Phar., Univ. Kansas, Lawrence, Kans.
antineoplastic agents; chemical structure; enzymes inhibitors; enzymes substrate complex; phosphotransferases.. ATP ; thymidine 5'-phosphotransferase; 3-(1β-ribofuranosyl)-2,6-dioxypyridines; synthesis; uracil analogs

CA-06566 MORGAN, LEE R., Jr., Sch. Med., Louisiana State Univ., New Orleans, La.
3-aminocatechol; bactericides; benzene; 3,4-dihydroxyantranilic acid; drugs; 5-hydroxynicotinic acid; 2-hydroxypyridines; phenazine; pyridien; synthesis

CA-06575 SMITH, J. DOYLE, Sch. Phar., Med. Col. Virginia, Richmond, Va.
α-aminoalkanesulfonic acid; antineoplastic agents; borohydride; ohydrazino acids; α-hydroxyamino acids; α-oximino acids; reduction; α-semicarbazido acids; synthesis

CA-06586 SMITH, WALTER T., Jr., Grad. Sch., Univ. Kentucky, Lexington, Ky.
antineoplastic agents; nitrogen mustards; N-sulfinylhydrazines; synthesis

CA-06587 HAWKINS, RICHARD T., Col. Phys. Eng. Sci., Brigham Young Univ., Provo, Utah
antimetabolites; boron compounds; heterocyclic compounds; neutrons; radiation therapy; synthesis

CA-06606 POPP, FRANK D., Grad. Sch., Clarkson C. Tech., Potsdam, N.Y.
antineoplastic agents; benzodiazines; ethyleneimines; isoquinolines; methane sulfonate; nitrogen mustards; N-oxides; synthesis

CA-06620 McEWEN, WILLIAM E., Grad. Sch., Univ. Massachusetts, Amherst, Mass.
acylation; antineoplastic agents; carbonium ions; heterocyclic compounds; molecular condensations; Reissert compounds; synthesis

CA-06651 CHANG, FREDERIC C., Col. Pharm., Univ. Tennessee, Memphis, Tenn.
medicinal plants; geographical sites..Asia; antineoplastic agents; chemical structure--biological activity

CA-06773 HAWTHORNE, M. FREDERICK, Univ. California, Riverside, Cal.
borohydride; synthesis; chemical structure; nuclear magnetic resonance; ion..anion; radiation therapy

CA-06774 BIGGERSTAFF, WARREN R., Grad. Sch., Fresno State Col., Fresno, Cal.
synthesis; 17--ketosteroids; thiolactones; chemical structure--biological activity

CA-06820 CATES, LINDLEY A., Jr., Col. Phar., Univ. Houston, Houston, Texas
amidophosphates; antineoplastic agents; chemical structure--biological activity; synthesis

CA-06838 BUTLER, GEORGE B., U. Florida, Gainesville, Fla.
antineoplastic agents; chemical structure--biological activity; copolymers; dienes; molecular weight; monomers; olefins; stereochemistry; stereoisomers; synthesis

CA-06893 SPESSARD, DWIGHT R., Col. Liberal Arts, Denison Univ., Granville, Ohio
synthesis; alkylating agents; antineoplastic agents; methanesulfonic acid tetramethylene ester; chemical structure--biological activity; phosphonates.. phosphonic esters

CA-06912 PINKUS, JACK L., Wheeling C., Wheeling, W.Va.
antineoplastic agents; carcinogens; chelating agents; chemical structure--biological activity; isomers; synthesis

CA-07064 ZUCKERMAN, J.J., Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.
heterocyclic compounds; synthesis; diamines; purine analogs; pyrimidine analogs; antineoplastic agents; organometallic compounds

CA-07110 GASSMAN, PAUL G., Res. Fdn., Ohio State Univ., Columbus, Ohio
heterocyclic nitrogen mustards; synthesis; molecular structure; bicyclic compounds; carcinogens; antineoplastic agents

CA-07115 WEATHERBEE, CARL, Millikin Univ., Decatur, Ill.
antineoplastic agents; heterocyclic nitrogen mustards; synthesis; phenolic amines; benzoxazines; hydrogen bond; Mannich bases; screening; phenols

CA-07137 CASPI, ELIAHU, Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
heterocyclic compounds; steroid hormones analogs; synthesis; screening; chemical structure--biological activity; antineoplastic agents

CA-07172 DEWAR, MICHAEL J.S., Univ. Texas, Austin, Tex.
boron compounds; heterocyclic compounds; purine analogs; pyrimidine analogs; pteridines analogs; aromatic amino acids; 3,4-benzpyrene; benzanthracenes; synthesis; chemical structure--biological activity; computers; antineoplastic agents

CA-07182 GOLDWHITE, HAROLD, Los Angeles State Col., Los Angeles, Cal.
heterocyclic compounds; organophosphorus compounds; phosphorus mustards; synthesis; chemical structure--biological activity

CA-07193 HENERY-LOGAN, KENNETH R., Grad. Sch., Univ. Maryland, College Park, Md.
antineoplastic agents; aziridine carboxylic acids; chemical structure--biological activity; peptides; synthesis

CA-07194 PASTO, DANIEL J., Sch. Sci., Univ. Notre Dame, Notre Dame, Ind.
boron compounds; chemical bonds..bond cleavage; chemical structure; ether; functional groups; organic compounds; oxygen; reaction sites; solvents; sulfur; synthesis; transalkylation

CA-07195 DJERASSI, CARL, Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.
synthesis; steroids; mass spectrometry; stable isotope labeled; terpenoids; optical rotatory dispersion; circular dichroism; conformation (chemistry); cactus; sterols; instrumentation--methodology

CA-07202 BERLIN, K. DARRELL, Col. Arts, Sci., Oklahoma State Univ., Stillwater, Okla.
antineoplastic agents; azide; chemical structure; electron charge distribution; nitrene; nitrogen compounds; phosphorylation; stereochemistry

CA-07272 GRUNDMANN, CHRISTOPH J., Mellon Inst., Pittsburgh, Pa.
antineoplastic agents; chemical structure; nitriles; oxides; synthesis

CA-07333 HARMON, ROBERT E., Sch. Liberal Arts, Sci., Western Michigan Univ. Kalamazoo, Mich.
acid ionization constants; antineoplastic agents; chemical structure--biological activity; metal complexes; reduction; substitution reactions (chemistry); sulfinates; synthesis

CA-07351 BORDWELL, FREDERICK G., Northwestern Univ., Evanston, Ill.
heterocyclic compounds; mercury; synthesis; antineoplastic agents; dioxane

CA-07394 NEWMAN, MELVIN S., Ohio State Univ., Columbus, Ohio
quinones; 9,10-dimethyl-1,2-benzanthracene; carcinogens; oxidation--reduction; synthesis; antineoplastic agents

CA-07395 KACZMARCZYK, ALEXANDER, Dartmouth Col., Hanover, N.H.
boron compounds; synthesis; oxidation--reduction; chemical structure; crystallography; antineoplastic agents; solvents; borohydride; radiation therapy; ions; organic compounds

CA-07403 PHILLIPS, JOHN P., Univ. Louisville, Louisville, Ky.
photosensitivity; chemical structure; synthesis; merocyanines; pyrans; chelating agents; antineoplastic agents

CA-07445 FRIED, JOSEF, Ben May Lab. Cancer Res., Univ. Chicago, Chicago, Ill.
antineoplastic agents; antibiotics; synthesis; chemical structure--biological activity; veratrum alkaloids; triterpenes; metabolites; fungi..Basidiomycetes; steroid hormones

CA-07454 BERNFELD, PETER, Bio-Research Inst., Inc., Cambridge, Mass.
antineoplastic agents; synthesis; polyions..polyanions; molecules..macromolecules; sulfomucopolysaccharides; chondroitin sulfate; chemical structure--biological activity; nitrogen mustards

CA-07464 MORS, WALTER B., Fac. Nacional de Farmacia, Rio de Janeiro, Brazil
antineoplastic agents; medicinal plants; survey; chemical structure--biological activity; fractionation; geographical sites..Latin America

CA-07514 ZORBACH, WILLIAM W., Grad. Sch., Georgetown Univ., Washington, D.C.
synthesis; antineoplastic agents; nucleosides; methylation

CA-07521 CLAPP, LEALLYN B., Brown Uni , Providence, R.I.
ethyleneimines; cyclic compounds; solutions..aqueous solutions; triazines; metal complexes; chemical bonds.. bond cleavage; electron donors

CA-07522 MERTES, MATHIAS P., Sch. Pharm., Univ. Kansas, Lawrence, Kans.
folic acid antagonists; 5,10--methylenetetrahydrofolic acid; synthesis; deoxyribonucleic acid; nucleic acids inhibitors; methyl groups; electron transport; cancer chemotherapy

CA-07803 SWERN, DANIEL, Fels Research Inst., Temple Univ., Philadelphia, Pa.
synthesis; fatty acids; peroxides; alkylating agents; ethyleneimines; carcinogens; halogens; nitrosyl chloride; ethylene oxide; nitrogen compounds; electron donors

CA-07807 WHITE, DAVID G., George Washington Univ., Washington, D.C.
heterocyclic compounds; synthesis; antineoplastic agents; organoboron compounds; nitrogen compounds

CA-07808 MORICONI, EMIL J., Grad. Sch. Arts, Sci., Fordham Univ., N.Y.C.
azasteroids; hydroxamic acid; synthesis; chemical structure--biological activity; stereochemistry; antineoplastic agents; 17-keto-D-homosteroids

CA-07809 FLEMING, MARY A., SISTER, Marygrove Col., Detroit, Mich.
ligands; nitrogen; phosphorus; synthesis; heterocyclic compounds; pi bonds; metal complexes; chemical structure--biological activity; antineoplastic agents

CA-07810 JEFFERIES, PHILLIP R., Univ. Western Australia, Nedlands, Western Australia
medicinal plants; species; chemical structure--biological activity; gibberellins; diterpenes; geographical sites..Australia; travel; antineoplastic agents

CA-07857 SAM, JOSEPH, Sch. Pharm., Univ. Mississippi, University, Miss.
synthesis; antineoplastic agents; virus inhibitors; oxazoles; nucleic acids inhibitors; folic acid antagonists; chemical structure--biological activity; benzoxazoles

CA-07909 FRIEDMAN, LESTER, Case Inst. Tech., Cleveland, Ohio
polycyclic compounds; synthesis; cyclization

CA-07911 JOULLIE, MADELEINE M., Pennsylvania, Philadelphia, Pa.
synthesis; benzimidazoles; triazines; heterocyclic compounds

CA-07917 PAUDLER, WILLIAM W., Grad. Col., Ohio Univ., Athens, Ohio
synthesis; antineoplastic agents; alkylating agents; azetidine; functional groups; chemical structure--biological activity

CA-07989 PARRY, ROBERT W., Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Michigan
antineoplastic agents; boron compounds; borohydrides; synthesis; chemical structure--biological activity; substitution reactions (chemistry); electron acceptors; nitron mustards

(contd)

MEDICINAL CHEMISTRY (CONTD)

CA-08095 DURR, GEORGE J., Le Moyne Col., Syracuse, N.Y.
synthesis; 6--azauracil; pyrimidine; nucleosides; antineoplastic agents; 5--fluorouracil

CA-08102 SKINNER, CHARLES G., North Texas State Univ., Denton, Tex.
antineoplastic agents; amino acid analogs; peptides analogs; pteridines analogs; purine analogs; pyrimidine analogs; heterocyclic compounds; metabolites; synthesis; chemical structure

CA-08109 ROBINS, ROLAND K., Univ. Utah, Salt Lake City, Utah
synthesis; antineoplastic agents; purine analogs; s--triazolo(2,3--a)--s--triazine; purine deoxyribosides

CA-08131 NOBLES, LEWIS, Grad. Sch., Univ. Mississippi, University, Miss.
thiophenes; nitrogen mustards; sarcolysin; thienylalanine; alkylating agents; synthesis

CA-08133 DOSKOTCH, RAYMOND W., Col. Pharm., Ohio State Univ., Columbus, Ohio
antineoplastic agents; plants; bioassay; fractionation; chemical structure--biological activity

CA-08152 JACOBSON, HERBERT I., Albany Med. Col., Albany, N.Y.
carcinogenesis; hydrocarbons; aromatic compounds; carcinogens; electron charge distribution; electron donors; deuterium; stable isotope labeled; molecular structure

CA-08226 RABJOHN, NORMAN, Grad. Sch., Univ. Missouri, Columbia, Mo.
hydrazines; synthesis; antineoplastic agents; chemical structure--biological activity; instrumentation--methodology

CA-08228 FARNSWORTH, NORMAN R., Sch. Pharm., Univ. Pittsburgh, Pittsburgh, Pa.
antineoplastic agents; Catharanthus alkaloids; chemical structure--biological activity

CA-08250 DITTMER, DONALD C., Col. Liberal Arts, Syracuse Univ., Syracuse, N.Y.
thietane; unsaturated compounds; sulfones; synthesis; thermodynamics; photochemistry

CA-08278 SEYFERTH, DIETMAR, Massachusetts Inst. Tech., Cambridge, Mass.
synthesis; phosphines; oxides; organophosphorus compounds; organometallic compounds; antineoplastic agents

DE-01893 MILLER, GEORGE T., Jr., Hampden-Sydney Col., Hampden-Sydney, Va.
dentistry; oxidation; metal; surface properties

EF-00080 JOSLYN, MAYNARD A., Col. Agr., Univ. California, Berkeley, Cal.
anthocyanins; fruit; chemical structure--biological activity; carbohydrases..pectic enzymes; antimetabolites; poultry; nutrition; crops

EF-00419 de MAYO, PAUL, Univ. Western Ontario, London, Canada
fungi..Helminthosporium; metabolites; stereochemistry; chemical structure--biological activity; herbicides; antibiotics; terpenoids; mycelium; radiolabeled carbon

EF-00483 SCHRAMM, LEE C., Col. Pharm., Univ. Minnesota, Minneapolis, Minn.
fungi..Fusarium graminearum; life cycle; pigments; toxicology; microbial culture; culture media; fungi.. Gibberella zea; genetic strains; toxins

EF-00508 STERMITZ, FRANK R., Col. Sci., Utah State Univ., Logan, Utah
plants; toxins; chemical structure--biological activity

GM-03711 SWAIN, C. GARDNER, Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.
amides; catalysts..polyfunctional catalysts; enolization; esters; methanol; oxidation-reduction; substitution reactions (chemistry); water

GM-04229 WOODWARD, R.B., Harvard Univ., Cambridge, Mass.
chemical structure; chlorins; colchicine; peptides; porphyrins; synthesis; vitamin B12

GM-04371 SOUTHWICK, PHILIP L., Carnegie Inst. Tech., Pittsburgh, Pa.
synthesis; pyrrolidines; chemical structure--biological activity; heterocyclic compounds

GM-04458 YALMAN, RICHARD G., Antioch Col., Yellow Springs, Ohio
metal; porphins; hydration reactions; cobalt; metal chelates; zinc; hydrogen bond; synthesis

GM-05147 STORK, GILBERT, Sch. Chem., Columbia Univ., N.Y.C.
synthesis; lupeol; triterpenes; steroids; alkaloids

GM-05532 BENNETT, WILLIAM E., Grad. Sch., State Univ. Iowa, Iowa City, Iowa
metal chelates; ion; amino acid; optical rotation; chemical structure; chelating agents; proteins; porphins; phthalocyanines

GM-05814 HERZ, WERNER, Grad. Sch., Florida State Univ., Tallahassee, Fla.
analgesics..antipyretics; anti-inflammatory agents; antineoplastic agents; chemical structure; medicinal plants; phylogeny; stimulants

GM-05829 LEONARD, NELSON J., Grad. Col., Univ. Illinois, Urbana, Ill.
gleditsia alkaloids; synthesis; chemical structure; ethyleneimonium compounds; cyclization; screening; alkaloids; adenine; adenosine; isomers; coenzymes; nucleosides

GM-05830 HIGUCHI, TAKERU, Sch. Phar., Univ. Wisconsin, Madison, Wis.
binding; catalysts; organic compounds; solutions

GM-05842 HALMANN, MARTIN M., Weizmann Inst. Sci., Rehovoth, Israel
organophosphates; hydrolysis; free radicals; ultraviolet rays; gamma rays; deuterium; stable isotope labeled oxygen

GM-05895 ANDRAKO, JOHN, Sch. Pharm., Med. Col. Virginia, Richmond, Va.
palladium; reaction sites; catalysts; enzymes substrate complex; hydrogenation

GM-05978 ROSENBLUM, MYRON, Sch. Sci., Brandeis Univ., Waltham, Mass.
arylferrocenes; electrophilic substitution; ferrocene; nuclear magnetic resonance; resonance; synthesis

GM-05981 BARTLETT, PAUL D., Grad. Sch., Harvard Univ., Cambridge, Mass.
free radicals; esters; chemical bonds; oxidation..autoxidation; carbonium ions; hydrocarbons; ionic bonds; esters..peresters; solvolysis; ionization

GM-06168 SCHUERCH, CONRAD, State Univ. Col. Forestry at Syracuse Univ., Syracuse, N.Y.
synthesis; sugar anhydrides; polymerization; polysaccharides; dextran

GM-06248 MEYERS, ALBERT I., Louisiana State Univ., New Orleans, La.
heterocyclic compounds; cyanides; cyclization; screening; synthesis; azasteroids; carbonium ions

GM-06304 NICKON, ALEX, Fac. Philosophy, Johns Hopkins Univ., Baltimore, Md.
terpenes; cyclization; stereochemistry; protons; conformations (chemistry); carbonium ions; caryophyllene

GM-06607 LACH, JOHN L., Grad. Sch. Pharm., State Univ. Iowa, Iowa City, Iowa
dextrin; benzoic acids; reaction rates (chemistry).. formation constants; hydrogen bonds; inclusion bodies

GM-06607 LACH, JOHN L., Grad. Sch. Pharm., State Univ. Iowa, Iowa City, Iowa
dextrin; benzoic acids; reaction rates (chemistry).. formation constants; hydrogen bonds; inclusion bodies

GM-06691 CORWIN, ALSOPH H., Johns Hopkins Univ., Baltimore, Md.
photochemistry; magnesium; metal chelates; porphyrins; chlorins; potentials; oxidation-reduction

GM-06840 DJERASSI, CARL, Grad. Sch., Stanford Univ., Stanford, Cal.
molecular structure; pentacyclic triterpenes; medicinal plants..Styphnodendron; mass spectrometry; instrumentation--methodology; triterpenes

GM-07021 MILLER, SIDNEY I., Grad. Sch., Ill. Inst. Tech., Chicago, Ill.
nucleophilic substitution; acetylene; 1-haloalkynes; thioethers; organophosphorus compounds

GM-07239 LYLE, GLORIA G., Grad. Sch., Univ. New Hampshire, Durham, N.H.
optical rotatory dispersion; conformations (chemistry); stereochemistry; alkaloids; organic bases

GM-07310 BELEW, JOHN S., Sch. Arts, Sci., Baylor Univ., Waco, Texas
ozonides; solubility; carcinogens; synthesis

GM-07444 SMISSMAN, EDWARD E., Sch. Pharm., Univ. Kansas, Lawrence, Kans.
aromatic compounds; chemical structure; microorganisms; plants; radiolabeled carbon; stereochemistry

GM-07487 ZIMMERMAN, HOWARD E., Univ. Wisconsin, Madison, Wisconsin
carbonyl compounds, epoxides; ketones; photochemistry; stereochemistry

GM-07760 SCHENK, GEORGE H., Jr., Grad. Sch., Wayne State Univ., Detroit, Mich.
anthracenes; carcinogens; Diels-Alder reaction; hydrocarbons; pi complexes; tetracyanoethylene

GM-07764 MORRISON, ROBERT T., Grad. Sch., New York Univ., N.Y.C.
deuterium oxide; hydrogen-ion concentration; hydrolysis; molecular rearrangement; phosphonic esters; salts; stable isotope labeled oxygen; stereochemistry

GM-07817 HUFFMAN, JOHN W., Clemson Col., Clemson, S.C.
resins acids; synthesis; steroids analogs

GM-07852 PAECHT, MELLA, Weizmann Inst. Sci., Rehovoth, Israel
amino acids; polymerization; amino acid anhydrides; phosphates..phosphoric esters; high energy compounds; lysine; serine; cyclic amino acids; aspartic acid; glutamates

GM-07861 GARDNER, PETE D., Col. Arts, Sci., Univ. Texas, Austin, Tex.
photochemistry; molecular rearrangement; esters; steroids; isomers; 3α-acetoxycholest-5-ene-7-one; 5α-acetoxycholest-3-ene-7-one; 4-cholestene-6-ol-3-one; photosensitivity; menthone; carbonium ions; olefins; oxidation-reduction

GM-07863 LaLONDE, ROBERT T., Grad. Sch., Syracuse Univ., Syracuse, N.Y.
polyphosphates; epoxides; polymers replication; paleontology; phylogeny; organic acids; substitution reactions (chemistry); transformation

GM-07874 WASSERMAN, HARRY H., Grad. Sch., Yale Univ., New Haven, Conn.
phosphates; nucleotides; alkoxyacetylenes; alkoxyvinylphosphates; pyrophosphates; coenzymes

GM-07966 HISKEY, RICHARD G., Univ. North Carolina, Chapel Hill, N.C.
disulfides; synthesis; electron donors; thiols

GM-07967 JANNKE, PAUL J., Sch. Pharm., Univ. Connecticut, Storrs, Conn.
drugs; free radicals (chemistry); heat lability; [illegible]

GM-07969 **HIRATA, YOSHIMASA,** Grad. Sch. Chem., Nagoya Univ., Nagoya, Japan
toxins; stereochemistry; medicinal plants; chemical structure

GM-08003 **WEINHEIMER, ALFRED J.,** Grad. Col., Univ. Oklahoma, Norman, Okla.
terpenes; marine biology; sesquiterpenes; diterpenes

GM-08042 **VERMEULEN, THEODORE,** Col. Chem., Univ. California, Berkeley, Cal.
electrochromatography; instrumentation; amino acids; isomers

GM-08241 **KRAPCHO, A. PAUL,** Grad. Sch., Univ. Vermont, Burlington, Vermont
vetivone; synthesis; chemical structure; stereochemistry

GM-08344 **AMMA, E.L.,** Grad. Sch., Univ. Pittsburgh, Pittsburgh, Pa.
molecular structure; metal chelates; sulfur; nickel; copper; polymers

GM-08345 **CULBERSON, CHICITA F.,** Grad. Sch., Duke Univ., Durham, N.C.
lichens; taxonomy; antibiotics; chemical structure

GM-08346 **ZALKOW, LEON H.,** Oklahoma State Univ., Stillwater, Okla.
Aplopappus heterophyllus poisoning; chemical structure--biological activity; furans; toxins

GM-08347 **SPENCE, JACK T.,** Grad. Sch., Utah State Univ., Logan, Utah
molybdenum; enzymes; metal complexes; oxidation-reduction; stability constants

GM-08348 **TREFONAS, LOUIS M.,** Louisiana State Univ., New Orleans, La.
azetidine; cyclooctenimine; molecular structure; spirooxazine; heterocyclic compounds; ethyleneimines; bicyclic compounds

GM-08349 **REILLEY, CHARLES N.,** Sch. Chem., Univ. North Carolina, Chapel Hill, N.C.
metal chelates; ligands; stereochemistry; reaction rates (chemistry); cysteine; 1,2--propanediamine

GM-08350 **COLIMAN, JAMES P.,** Grad. Sch., Univ. North Carolina, Chapel Hill, N.C.
metal chelates; organic compounds; ligands; peptides; synthesis; chemical structure--biological activity

GM-08394 **THOMPSON, LARRY C.,** Univ. Minnesota, Duluth, Minn.
rare earth metals; ion; ligands; stereochemistry

GM-08395 **CAUGHLAN, CHARLES N.,** Montana State Col., Bozeman, Mont.
organophosphates; hydrolysis; phosphorus; oxygen; chemical bonds; molecular structure

GM-08701 **SAUERS, RONALD R.,** Sch. Arts, Sci., Rutgers Univ., New Brunswick, N.J.
synthesis; bicyclo--octanes; addition reactions (chemistry)

GM-08731 **HUFFMAN, JOHN W.,** Sch. Arts, Sci., Clemson Col., Clemson, S.C.
3-acyl-4-hydroxy-2-quinolones; balfourodine; furoquinolones; lunacrine; synthesis

GM-08761 **HOUSE, HERBERT O.,** Massachusetts Inst. Tech., Cambridge, Mass.
molecular condensations; stereochemistry

GM-08762 **LWOWSKI, WALTER,** Yale Univ., New Haven, Conn.
additional reactions (chemistry); amine; azide; elimination reactions (chemistry); functional groups; nitrene

GM-08797 **ZIMMER, HANS,** Grad. Sch., Univ. Cincinnati, Cincinnati, Ohio
molecular rearrangement; heterocyclic compounds; α--benzylidene--gamma--butyrolactones; synthesis; furoquinolines; coumarins; styrene

GM-08798 **QUIMBY, MAYNARD W.,** Massachusetts Col. Phar., Boston, Mass.
alkaloids; antibiotics; fungi..molds; geographical sites.. Africa; plants; screening; soil; taxonomy

GM-08847 **HAMMOND, GEORGE S.,** California Inst. Tech., Pasadena, Cal.
metal chelates; oxidation; ligands; atmosphere; oxygen; iron

GM-08956 **WILEY, GEORGE A.,** Grad. Sch., Syracuse Univ., Syracuse, N.Y.
phosphorus; stereochemistry; chemical structure; antineoplastic agents; synthesis

GM-09013 **TRACHTENBERG, EDWARD N.,** Clark Univ., Worcester, Mass.
cycloheptanes; cyclopentanes; cyclopropane; fluorinated pyrazolines; stereochemistry; synthesis; thermodynamics

GM-09014 **ISBELL, A.F.,** Grad. Sch., AM Col. Texas, College Station, Tex.
amino phosphonic acids; antineoplastic agents; bactericides; chemical structure--biological activity; synthesis; viricides

GM-09020 **PRYOR, WILLIAM A.,** Grad. Sch., Purdue Univ., Lafayette, Ind.
free radicals; stereochemistry; substitution reactions (chemistry); polymerization; disulfides; peroxides; radiation effects

GM-09067 **IRELAND, ROBERT E.,** Univ. Michigan, Ann Arbor, Mich.
synthesis; sesquiterpenes; dihydroeremophilone; dihydropetasol; stachenone

GM-09133 **KOSOWER, EDWARD M.,** State Univ. New York, Long Island Cr., Oyster Bay, N.Y.
pyridine; electron transport

GM-09136 **LEPLEY, ARTHUR R.,** State Univ. New York, Albany, N.Y.
tert. benzylamines; benzyne; antihistamines; alkaloids; synthesis; substitution reactions (chemistry); anilines; indoles; cyclization

GM-09143 **SHAPIRO, BERNARD L.,** Illinois Inst. Tech., Chicago, Ill.
tautomerism; enolization; 1,3--dicarbonyl compounds; imines; halogenated compounds; electronic spectra; equilibrium constants

GM-09240 **NYE, WILLIAM N.,** Sch. Med., Stanford Univ., Stanford, Cal.
ion exchange chromatography; amino acids; stereoisomers

GM-09254 **SMISSMAN, EDWARD E.,** Sch. Pharm., Univ. Kansas, Lawrence, Kansas
stereochemistry; synthesis; chemical structure--biological activity; antineoplastic agents; enzyme inhibitors; antibiotics; nervous system..central nervous system; depressants; drugs

GM-09300 **STERMITZ, FRANK R.,** Grad. Sch., Utah State Univ., Logan, Utah
alkaloids; medicinal plants; synthesis; screening

GM-09317 **OLOFSON, ROY A.,** Grad. Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
peptides; synthesis; carboxyl groups; amine; heterocyclic compounds

GM-09342 **LOTSPEICH, FREDERICK J.,** Sch. Med., West Virginia Univ., Morgantown, West Virginia
colchicine analogs; sulfones; synthesis; acid; leprosy; radiation protection; antineoplastic agents; screening

GM-09343 **BREY, WALLACE S., Jr.,** Col. Arts, Sci., Univ. Florida, Gainesville, Fla.
nuclear magnetic resonance; hydrogen; nitrogen; solutions; heterocyclic compounds; acetanilides; molecular structure; chemical bonds

GM-09362 **NAKANO, TATSUHIKO,** Faculty Pharm., Kyoto Univ., Kyoto, Japan
plants; geographical sites..Formosa; geographical sites.. Japan; alkaloids; chemical structure--biological activity; terpenoids

GM-09402 **PORTOGHESE, PHILIP S.,** Sch. Pharm., Univ. Minnesota, Minneapolis, Minn.
2--azanorbornanes; analgesics; meperidine; muscle relaxants; antihistamines; molecular structure

GM-09479 **DOAK, GEORGE O.,** North Carolina State Col., Raleigh, N.C.
organophosphorus compounds; synthesis; chemical structure--biological activity

GM-09481 **SZMANT, H. HARRY,** Univ. Puerto Rico, Rio Piedras, P.R.
hydroxyl groups; alcohols; carbohydrates; imidates; antimetabolites; synthesis; nucleophilic substitution

GM-09662 **ROSENBLUM, MYRON,** Col. Sci., Brandeis Univ., Waltham, Mass.
synthesis; von Richter reaction

GM-09686 **BUCHI, GEORGE H.,** Massachusetts Inst. Tech., Cambridge Massachusetts
synthesis; samandarin; bakankosin; viomycin; chemical structure; alkaloids; voacanga alkaloids

GM-09687 **RIEMAN, WILLIAM, III,** Sch. Chem., Rutgers State Univ., New Brunswick, N.J.
electrolytes; ion exchange chromatography; non-electrolytes; resolution

GM-09693 **NICKON, ALEX,** Johns Hopkins Univ., Baltimore, Md.
photosensitivity; oxygenation; steroid hormones; radiolabeled carbon; hydrogen peroxides; plants; olefins; synthesis

GM-09696 **AUGUSTINE, ROBERT L.,** Seton Hall Univ., South Orange, N.J.
atmospheric pressure; catalysts; heterocyclic compounds; hydrogen-ion concentration; hydrogenation; ketones; solvents; stereochemistry; temperature

GM-09706 **CARPINO, LOUIS A.,** Univ. Massachusetts, Amherst, Mass.
synthesis; carbo-t-butoxy group; acylating agents; reaction mechanisms

GM-09756 **MacDONALD, DONALD L.,** Sch. Sci., Oregon State Univ., Corvallis, Ore.
sugar phosphates; synthesis

GM-09759 **WHARTON, PETER S.,** Grad. Sch., Univ. Wisconsin, Madison, Wis.
sesquiterpenes; stereochemistry

GM-09895 **MARULLO, NICASIO P.,** Grad. Sch., Clemson Col., Clemson, S.C.
amine; stereochemistry

GM-09948 **KHARASCH, NORMAN,** Grad. Sch., Univ. Southern California, Los Angeles, Cal.
sulfur; chemical bonds..bond cleavage

GM-09973 **HEISEY, LOWELL V.,** Undergrad. Liberal Arts, Bridgewater Col., Bridgewater, Va.
synthesis; chemical structure--biological activity; hydrazines..cyclic hydrazides; sulfur; fluorides; 3,6-pyridazindiones; hydroxyl groups; imides

GM-09998 **MORIARTY, ROBERT M.,** Grad. Sch. Arts, Sci., Catholic Univ., Washington, D.C.
solvolysis; allylic systems; nucleophilic substitution; 5-cholestene-3β, 19-diol; 3,5-cyclocholestane-6β, 19-epoxide

GM-10020 **MILLER, SIDNEY I.,** Illinois Inst. Tech., Chicago, Ill.
synthesis; acetylene; silver acetylides; chemical structure--biological activity; polyacetylenes

(contd)

LISTING OF GENERAL RESEARCH AREAS

MEDICINAL CHEMISTRY (CONTD)

GM-10040 **BUSCH, DARYLE H., Sch. Chem., Ohio State Univ., Columbus, Ohio**
functional groups; organic compounds; metal chelates; hydrazones; oximes; stereochemistry; electron donors; Schiff bases; thioesters; aminothiols; iron; cobalt; nickel; chelating agents; cyclic compounds; isomers

GM-10064 **MANN, CHARLES K., Grad. Sch., Florida State Univ., Tallahassee, Fla.**
amines; oxidation; reaction rates (chemistry); functional groups; electrodes..anode; nitrogen

GM-10086 **RECHNITZ, GARRY A., Grad. Sch., Univ. Pennsylvania, Philadelphia, Pa.**
sodium; potassium; ammonia; silver; ions..cation; electrodes..cathode; potentiometric titrations; metal complexes; alkali metals; reactions rates (chemistry).. formation constants; urea

GM-10090 **MEINWALD, HERROLD, Grad. Sch., Cornell Univ., Ithaca, N.Y.**
conformations (chemistry); cyclic compounds; synthesis; molecular shape; stereochemistry; D--norsteroids

GM-10206 **SAGAR, WILLIAM C., Centre Col., Danville, Ky.**
DDT; chemical structure--biological activity; synthesis; insecticides resistance

GM-10218 **RICHARDS, JOHN H., California Inst. Tech., Pasadena, Cal.**
bacteria..Pseudomonas; carbon dioxide; chemical structure; chlororaphin; fungi..Penicillium; hydroxylation; 2-hydroxyphenazine-1-carboxylic acid; loganin; oxidation; puberlic acid; puberulonic acid; ovocyanin; radiolabeled; Simaruba glycosides; strychnine; synthesis

GM-10222 **BORNSTEIN, JOSEPH, Grad. Sch. Arts, Sci., Boston Col., Chestnut Hill, Mass.**
bases; cyclic compounds; electron donors; phenyl lithium; sulfonium compounds; synthesis; thiols

GM-10224 **WILLIAMSON, KENNETH L., Mount Holyoke Col., South Hadley, Mass.**
conformations (chemistry); haloketosteroids; nuclear magnetic resonance; stereochemistry

GM-10244 **ANDERSEN, KENNETH K., Grad. Sch., Univ., New Hampshire, Durham, N.H.**
bisulfites; chemical bonds; iodide; lithium aluminum hydride; nucleophilic substitution; oxygen; stereochemistry; sulfoxides; sulfur; synthesis

GM-10265 **LETSINGER, ROBERT L., Grad. Sch., Northwestern Univ., Evanston, Ill.**
amine; hydroxyl groups; polymers; polynucleotides; protective groups (chemistry); sulfenyl halides; synthesis

GM-10309 **DYER, JOHN R., Georgia Inst. Tech., Atlanta, Ga.**
chemical structure--biological activity; medicinal plants..Rhus typhina

GM-10366 **CAMPAIGNE, ERNEST E., Grad. Sch., Indiana Univ., Bloomington, Ind.**
heterocyclic compounds; sulfur; nitrogen; synthesis; benzothiophene analogs; chemical structure--biological activity; cyclization

GM-10367 **BERLIN, K. DARRELL, Col. Arts, Sci., Oklahoma State Univ., Stillwater, Okla.**
cyclic compounds; phosphites; phosphonates; phosphonites; hydrolysis; hydrogenation; photochemistry; toxicology; bacteria; molecular rearrangement; stereochemistry; synthesis; 1,3--cyclopentandiols; 1,3,2--benzodioxaphosphole; chemical bonds..bond cleavage; phosphorus; oxygen; conformations (chemistry)

GM-10371 **EASTERLY, WILLIAM D., Jr., Sch. Phar., Univ. Arkansas Med. Cr., Little Rock, Ark.**
antineoplastic agents; fluoridation; fungicides; hyperglycemic agents; muscle relaxants..anticonvulsants; muscle relaxants..antispasmodics; screening; synthesis; toxicology; tranquilizers; urea; urethane

GM-10372 **LIU, CHUI F., Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.**
stereochemistry; metal chelates; ligands; synthesis; malonic acid; unsaturated compounds; amino acid

GM-10413 **SCHEUER, PAUL J., Col. Arts, Sci., Univ. Hawaii, Honolulu, Hawaii**
molecular structure; spinochromes; oxidation--reduction

GM-10421 **VAN TAMELEN, EUGENE E., Stanford Univ., Stanford, Cal.**
strychnine; curare; alkaloids; ajmaline; geissospermine; cinchonamine; synthesis

GM-10455 **SCHLICHTING, HAROLD E., Jr., Grad. Sch., North Texas State Univ., Denton, Tex.**
stereochemistry; metal complexes; ligands; nitrogen; synthesis; isomers; chemical structure--biological activity; algae..Chlorella; growth, microorganisms; bacteria..Escherichia coli

GM-10462 **TAUBE, HENRY, Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.**
metal complexes; conjugated systems; ligands; oxidation-reduction; electron transport; hydrolysis; tautomerism; stereoisomers

GM-10488 **JOHNSON, A. WILLIAM, Grad Sch., Univ. North Dakota, Grand Forks, N.D.**
stereochemistry; electronic spectra; chemical bonds; carbanions; racemization; electron acceptors; resonance

GM-10541 **BONNER, WILLIAM A., Grad. Sch., Stanford Univ., Stanford, Cal.**
amino-deoxy sugars; chemical structure--biological activity; functional groups; organometallic compounds; screening; substitution reactions; synthesis

GM-10543 **THIESSEN, WILLIAM E., Univ. California, Davis, Cal.**
synthesis; teresantalic acid; apocamphenecarboxylic acids; isomers; stereochemistry; beta--santalol; alpha--santalol

GM-10572 **EATON, PHILIP E., Grad. Sch., Univ. Chicago, Chicago, Ill.**
addition reactions (chemistry); carbonyl compounds; cyclic compounds; dimers; photochemistry; polymerization; stereochemistry

GM-10605 **WALTER, ROBERT I., Haverford Col., Haverford, Pa.**
aromatic compounds; criteria; free radicals; molecular structure; oxidation-reduction; 1-picryl-2,2-diaryl-hydrazyls; potentiometry; substitution reactions (chemistry); synthesis; triarylaminium salts

GM-10606 **BOTTINI, ALBERT T., Col. Letters, Sci., Univ. California, Davis, Cal.**
cyclization; 2--bromoallylamines; bases; nucleophilic addition; chemical structure; synthesis; oxazines; oxazoles

GM-10608 **SHAMMA, MAURICE C., Col. Chem., Physics, Pennsylvania State Univ., University Park, Pa.**
alkaloids; chemical structure--biological activity; photochemistry; synthesis

GM-10612 **STOCKER, FRED B., Macalester Col., Saint Paul, Minn.**
histamine; aldehydes; synthesis; catalysts; bases; chemical structure; screening; imidazo (c) pyridine

GM-10662 **HALPERN, JACK, Sch. Physical Sci., Univ. Chicago, Chicago, Ill.**
ruthenium; metal complexes; hydrogen; deuterium; enzymes models; hydrogenases; olefins; hydrogenation; fumarate; catalysts; cyanides; platinum; [illegible]-nometallic compounds

GM-10664 **SMITH, GERARD V., Illinois Inst. Technology, Chicago, Illinois**
catalysts; metal; surface properties; stereoisomers; reaction sites; adsorption; synthesis; molecular asymmetry; polarization optics

GM-10696 **BEAK, PETER, Univ. Illinois, Urbana, Ill.**
bicyclo(4.4.0) decanes; chemical structure--biological activity; metabolites; octalones; prephenic acid; stereochemistry; synthesis

GM-10702 **URRY, WILBERT H., Univ. Chicago, Chicago, Ill.**
photochemistry; cyclization; diketones; chromophores; racemization; triplet state; conjugates; ketones; free radicals

GM-10714 **HENDRICKSON, JAMES B., Brandeis Univ., Waltham, Mass.**
stereochemistry; sesquiterpenes; synthesis; chemical structure

GM-10715 **HENDRICKSON, JAMES B., Brandeis Univ., Waltham, Mass.**
synthesis; lycorine; haemanthidine

GM-10721 **WOLF, H. WALTER, Sch. Pharm., Univ. Southern California, Los Angeles, Cal.**
heterocyclic iodo compounds; synthesis; molecular structure; chemical structure--biological activity; toxicology; antimetabolites; enzymes

GM-10753 **CANNON, JOSEPH G., Sch. Phar., State Univ. Iowa, Iowa City, Iowa**
synthesis; chemical structure--biological activity; hydroxylamine; parasympatholytic agents; neuromuscular blocking agents; antihypertensive agents; quaternary enzymes inhibitors..monamine oxidase inhibitors

GM-10767 **DANIELS, RALPH, Col. Phar, Univ. Illinois, Chicago, Ill.**
synthesis; pyrazolidines; piperidazines; chemical structure--biological activity; parasympatholytic agents; enzymes inhibitors..monoamine oxidase inhibitors; antihistamines; muscle relaxants..antispasmodics; analgesics; anesthetics; screening

GM-10800 **ANDERSEN, KENNETH K., Col. Tech., Univ. New Hampshire, Durham, N.H.**
synthesis; sulfoxides; stereochemistry; chemical bonds; molecular structure; racemization; aromatic compounds; sulfonium compounds; salts; sulfinates

GM-10849 **WHITE, EMIL H., Grad. Sch., Johns Hopkins Univ., Baltimore, Md.**
luminescence..chemiluminescence; luminol; stable isotope labeled oxygen; lucigenin; 5-hydroxy-2,3-dihydro-1,4-phthalazinedione

GM-10921 **PELLETIER, S. WILLIAM, Univ. Georgia, Athens, Ga.**
alkaloids; chemical structure--biological activity; medicinal plants..Aconitum; medicinal plants..Delphinium

GM-10937 **BROWN, HERBERT C., Grad. Sch., Purdue Univ., Lafayette, Ind.**
borohydrides; organometallic compounds; synthesis; stereochemistry; unsaturated compounds; reaction sites; addition reactions (chemistry)

GM-10939 **LWOWSKI, WALTER, Yale Univ., New Haven, Conn.**
iso-indoles; nitrogen; tautomerism; synthesis; thermodynamics; Diels-Adler reaction; chemical structure; nuclear magnetic resonance

GM-10966 **PELLETIER, S. WILLIAM, Univ. Georgia, Athens, Ga.**
sapogenins; medicinal plants..Senega; chemical structure

GM-10972 **JONES, MARK M., Grad. Sch., Vanderbilt Univ., Nashville, Tenn.**
catalysts; metal; enzymes substrate; amino acid esters; amino acid; metal complexes; covalent bonds

GM-10985 **COOK, CLINTON D., Col. Tech., Univ. Vermont, Burlington, Vt.**
electron paramagnetic resonance; laboratory facilities; synthesis; quinonemethines; p-2,5-cyclohexadienones

GM-11006 POPP, FRANK D., Clarkson Col. Technology, Potsdam, N.Y.
diazepines; synthesis; chemical structure--biological activity; imipramine; chlorodiazepoxide analogs; tranquilizers

GM-11013 CONROW, KENNETH, Sch. Arts, Sci., Kansas State Univ., Manhattan, Kansas
2,2',4,4',6,6'--hexamethyl--4,4'--bi--4H--pyran; hydrolysis; functional groups; chemical structure--biological activity; amines; ketones; molecular rearrangement

GM-11136 CONNORS, KENNETH A., Sch. Pharm., Univ. Wisconsin, Madison, Wis.
enzyme models; enzyme substrate; enzymes; cinnamic acid; esters; hydrolysis; imidazoles; reaction rates (chemistry); enzyme complexes; chemical structure; xanthine; hydroxyl groups; catalysts

GM-11138 VOGEL, GEORGE, Col. Arts, Sci., Boston Col., Chestnut Hill, Mass.
pyrones; pyridinones; synthesis; ammonia; stable isotope labeled oxygen

GM-11142 CRONYN, MARSHALL W., Reed Col., Portland, Ore.
peptides; synthesis; imides; peptide templates; solvents; hydrogen-ion concentration; reaction sites; catalysis; electron charge distribution

GM-11144 WALLER, GEORGE R., Col. Agr., Oklahoma State Univ., Stillwater, Okla.
alkaloids; monoterpenes; diterpenes; medicinal plants; skytanthine; actinidine; atisine; mevalonic acid; isoprenoids

GM-11309 DJERASSI, CARL, Stanford Univ., Stanford, Cal.
alkaloids; antibiotics; medicinal plants..Apocynacae; oxyheterocylic compounds; filipin; nystatin; chemical structure; geographical sites..Latin America

GM-11317 VAN DER VEEN, JAMES M., Stvens Inst. Technology, Castle Point Station, Hoboken, N.J.
alcohols; aldehydes; chemical bonds..bond cleavage; cobalt; electron transport; metal complexes; oxidation; reaction rates (chemistry); tritium; vitamin B12

GM-11399 GRIFFIN, GARY W., Tulane Univ., New Orleans, La.
carbonyl group; conformations (chemistry); cyclic compounds; ketones; molecular structure; photochemistry; synthesis

GM-11401 MOORE, WILLIAM M., Col. Sci., Utah State Univ., Logan, Utah
anaerobiosis; deuterium; hydrogen transport; instrumentation-methodology; photochemistry; reaction rates (chemistry); reduction; riboflavin; synthesis

GM-11408 HOWARD, JOHN C., Med. Col. Georgia, Augusta, Ga.
cyanamides; synthesis; ampholytes; molecular structure; peptides analogs

GM-11412 FINNEGAN, RICHARD A., Sch. Pharm., State Univ. New York, Buffalo, N.Y.
medicinal plants; chemical structure--biological activity; diterpenes; geographical sites..West Indies

GM-11415 KWART, HAROLD, Univ. Delaware, Newark, Del.
conformations (chemistry); functional groups; molecular structure; organic compounds; reaction rates (chemistry); reaction sites; solvents; thermodynamics

GM-11417 SUNDERWIRTH, STANLEY G., Col. Sci., Arts, Colorado State Univ., Fort Collins, Colo.
chemical structure--biological activity; fractionation; medicinal plants..Lithospermum ruderale; ovulation inhibitors; plants..roots; polyphenols

GM-11438 REIST, ELMER J., Stanford Res. Inst., Menlo Park, Cal.
amino sugars; chemical structure--biological activity; deoxy sugars; isomers; synthesis

GM-11456 STEWART, GEORGE H., Sch. Arts, Sci., Gonzaga Univ., Spokane, Wash.
biomathematics; criteria; diffusion; instrumentation-methodology; paper chromatography; solutes; solvents; thin layer chromatography

GM-11466 KIANG, AI KIM, Faculty Sci., Univ. Singapore, Singapore
medicinal plants; geographical sites..Malaysia; chemical structure; steroids; terpenoids; flavonoids; alkaloids

GM-11499 FRIEDMAN, LESTER, Case Inst. Technology, Cleveland, Ohio
chemotherapy; cyclic compounds; organophosphorus compounds; phospholes; phosphorins; phosphorus mustards; screening; synthesis

GM-11508 GUTHRIE, ROY D., Sch. Physical Sci., Univ. Sussex, Falmer, Brighton, Sussex, England
amino sugars; molecular structure; oxidation; periodic acid; stereochemistry

GM-11520 STEVENS, CALVIN L., Col. Lib. Arts, Wayne State Univ., Detroit, Mich.
amino-deoxy sugars; chemical structure--biological activity; chemotherapy; isomers; screening; synthesis

GM-11529 SHERMAN, GWENDOLYN M., Vassar Col., Poughkeepsie, N.Y.
chlorophyll; oxidation; photosynthesis; photochemistry

GM-11571 WENKERT, ERNEST, Grad. Sch., Indiana Univ., Bloomington, Ind.
alkaloids; N-alkyl-3-acyltetrahydropyridines; chemotherapy; quinolines; quinolizidines; synthesis

GM-11593 PARTCH, RICHARD E., Grad. Sch., New Mexico Highlands Univ., Las Vegas, N. Mex.
samandarin; alkaloids; functional groups; synthesis; chemical structure--biological activity; vasoactive agents; analgesics

GM-11595 MORIARTY, ROBERT M., Grad. Sch. Arts, Sci., Catholic Univ., Washington, D.C.
azepines; dihydropyridines; stereochemistry; synthesis

GM-11620 RERICK, MARK N., Providence Col., Providence, R.I.
amine; synthesis; reduction; lithium aluminum hydride; aluminum; chlorides; organic compounds; molecular rearrangement; oximes; hydroxylamine

GM-11621 MARTELL, ARTHUR E., Grad. Sch., Illinois Inst. Technology, Chicago, Ill.
chlorophyll; porphyrins; chemical structure; synthesis; chlorins; pyrrole; tautomerism; metal chelates

GM-11626 ROWE, TOM D., Col. Phar., Univ. Michigan, Ann Arbor, Mich.
alkaloids; antineoplastic agents; chemical structure; drugs; infrared spectrometry; instrumentation-methodology; isothiocyanate; laboratory facilities; ultraviolet spectrometry

GM-11684 WEN, WEN-YANG, Grad. Sch., Clark Univ., Worcester, Mass.
hydrophobic bonds; quaternary ammonium compounds; proteins denaturation; proteins; solubility; functional groups; chemical bonds..bond formation; thermodynamics; optical rotation

GM-11687 JONES, JESSE W., Texas Col., Tyler, Tex.
purine; synthesis; chemical structure--biological activity; microorganisms; 6-chloro-7-ribosylpurine

GM-11728 GOLDSMITH, DAVID J., Grad. Sch., Emory Univ., Atlanta, Georgia
cyclization; cyclohexenols; epoxy olefins; polycyclic compounds; synthesis; terpenes

GM-11729 GOLDSMITH, DAVID J., Emory Univ., Atlanta, Ga.
sesquiterpenes; synthesis; gibberellin; chemical structure--biological activity

GM-11767 SWINEHART, JAMES H., Grad. Sch., Univ. California, Davis, Cal.
electron donors; electron acceptors; binding; free radicals; reaction rates (chemistry); riboflavin phosphate

GM-11775 HART, HAROLD, Col. Natural Sci., Michigan State Univ., East Lansing, Mich.
cyclopropane; cyclopropene; synthesis; cyclic compounds; chemical structure; stereochemistry; decarboxylation; cyano olefins

GM-11793 ZOLTEWICZ, JOHN A., Univ. Florida, Gainesville, Fla.
nucleosides; hydrolysis; reaction rates (chemistry); stereochemistry; chemical bonds..bond cleavage

GM-11809 BURTON, DONALD J., Grad. Col., State Univ. Iowa, Iowa City, Iowa
addition reactions (chemistry); borohydrides; chemical bonds; fluorinated compounds; halogenated hydrocarbons; halogenation; reduction; stability constants; stereochemistry; steroids

GM-11830 SMITH, MANNING A., Col. Arts, Sci., Bucknell Univ., Lewisburg, Pa.
flavonol; oxidation; periodic acid; electron acceptors; functional groups; chemical structure; synthesis; aurones

GM-11834 JOHNSON, SHARON L., Mellon Inst., Pittsburgh, Pa.
carboxylic acids; hydrolysis; functional groups; carbonyl compounds; bases; catalysts; deuterium

GM-11835 MILNE, H. BAYARD, Washington State Univ., Pullman, Wash.
imides; N-acylamino acids; synthesis; functional groups; chemical bonds..bond formation; peptides

GM-11836 DANEHY, JAMES P., Grad. Sch., Univ. Notre Dame, Notre Dame, Ind.
chemical bonds..bond cleavage; disulfide bonds; alkalies; cystine; homocystine; chemical structure; peptides; sulfur compounds

GM-11883 FANTA, PAUL E., Grad. Sch., Illinois Inst. Technology, Chicago, Ill.
bioassay; cancer chemotherapy; chemical structure--biological activity; ethyleneimines; pesticides; sulfur compounds; synthesis

GM-11908 PRYOR, WILLIAM A., Col. Chem., Physics, Louisiana State Univ., Baton Rouge, La.
disulfide bonds; free radicals; peroxides; radiolabeled carbon

GM-11909 O'CONNOR, ROD, Sch. Letters, Sci., Montana State Col., Bozeman, Mont.
insects bites stings venoms; fractionation; chemical structure--biological activity; chemical structure

GM-11915 LAGOWSKI, J.J., Univ. Texas, Austin, Tex.
aluminum; chemical structure--biological activity; fluorinated mercurials; magnesium; organometallic compounds; sodium; synthesis

GM-11963 BARKER, ROBERT, Grad. Sch., Univ. Tennessee, Medical Units, Memphis, Tenn.
synthesis; anhydrotetritols; anhydropentitols; anhydrohexitols; pyrans; furans; conformation (chemistry)

GM-11966 CHILTON, WILLIAM S., Univ. Washington, Seattle, Wash.
stereochemistry; carbohydrates; cotton effect; chemical structure; chromophores

GM-11967 COLTER, ALLAN K., Carnegie Inst. Technology, Pittsburgh, Pa.
charge transfer complexes; electron donors; electron acceptors; acid--base equilibrium; chemical structure--biological activity; phenols; pyridine; anilines

GM-11968 SCHULTZ, HARRY P., Col. Arts, Sci., Univ. Miami, Coral Gables, Fla.
synthesis; quinoxalines; amino acid; polypeptides; antibiotics

(contd)

MEDICINAL CHEMISTRY (CONTD)

GM-11973 **FRYDMAN, BENJAMIN J., Univ. Buenos Aires, Buenos Aires, Argentina**
porphyrins; synthesis; porphobilinogen; polymerization; indoles; chemical structure--biological activity; antimetabolites

GM-11974 **PENNER, HELLMUT P., Fisk Univ., Nashville, Tenn.**
heterocyclic compounds; synthesis; chemical structure--biological activity; molecular structure; penicillin analogs; azetidine

GM-11975 **PAQUETTE, LEO A., Ohio State Univ., Columbus, Ohio**
tropanes; cyclic compounds; synthesis; nitrogen; azo compounds; quaternary ammonium compounds; sulfides; alkylation; stereochemistry

GM-11976 **HORTON, DEREK, Grad. Sch., Ohio State Univ., Columbus, Ohio**
synthesis; carbohydrates; chemical structure--biological activity; metabolites; fungi..Actinomycetes; antibiotics; functional groups; amino-deoxy sugars; L-streptose; deoxy sugars

GM-11994 **DEULOFEU, VENANCIO and COMIN, JORGE, and VERNENGO, MARCELO J., Univ. Buenos Aires, Buenos Aires, Argentina**
geographical sites..Latin America; medicinal plants; chemical structure--biological activity; alkaloids; flavonoids; cardenolides; furocoumarins

GM-11996 **MOELLER, THERALD, Noyes Chemical Lab., Univ. Illinois, Urbana, Ill.**
organophosphorus compounds; cyclic compounds; synthesis; molecular structure; chemical structure--biological activity; chemical bonds; pesticides; instrumentation--methodology; ammonium

GM-12004 **GEISSMAN, T.A., Col. Letters, Sci., Univ. California, Los Angeles, Cal.**
plants; growth; gibberellin; diterpenes; steviol; radiolabeled carbon; synthesis; chemical structure--biological activity; metabolites

GM-12035 **LEMAL, DAVID M., Grad. Sch., Univ. Wisconsin, Madison, Wis.**
carbenes; nitrogen; oxygen; sulfur; synthesis; molecular structure; chemical bonds; ethylene

GM-12095 **STOUT, GEORGE H., Grad. Sch., Univ. Washington, Seattle, Wash.**
oxyheterocyclic compounds; aurofusarin; xanthones; celibixanthone; haruganin; chemical structure; x--ray diffraction; costatolide; instrumentation--methodology

GM-12096 **KOVACIC, PETER, Case Inst. Technology, Cleveland, Ohio**
amination (chemistry); substitution reactions (chemistry); synthesis; aromatic compounds; heterocyclic compounds; chemical structure--biological activity; N-haloamines; methodology

GM-12104 **KICE, JOHN L., Sch. Sci., Oregon State Univ., Corvallis, Ore.**
sulfur compounds; organic compounds; thiosulfates; esters; hydrolysis; oxidation; stable isotope labeled; deuterium; stable isotope labeled oxygen

GM-12109 **BEAMER, ROBERT L., Sch. Pharm., Univ. South Carolina, Columbia, S.C.**
catalysts; reaction sites; stereochemistry; synthesis; palladium; polypeptides; hydrogenation; chemical structure; enzymes substrate; enzymes models

GM-12111 **HOLLSTEIN, ULRICH, Col. Liberal Arts, Sci., Eastern New Mexico Univ., Portales, New Mexico**
medicinal plants; alkaloids; chemical structure--biological activity; geographical sites..New Mexico

GM-12112 **TIECKELMANN, HOWARD, State Univ. New York, Buffalo, N.Y.**
pyrimidines; hydroxypyrimidines; alkylation; synthesis

GM-12139 **CRISTOL, STANLEY J., Col. Arts, Sci., Univ. Colorado, Boulder, Colo.**
cyclic compounds; synthesis; stereochemistry; molecular rearrangement

GM-12146 **FILLER, ROBERT, Grad. Sch., Illinois Inst. Technology, Chicago, Ill.**
aryl halides; synthesis; chemical structure--biological activity; molecular structure; amino acid

GM-12148 **WINTNER, CLAUDE E., Sterling Chemistry Lab., New Haven, Conn.**
synthesis; aldehydes; olefins; heterocyclic compounds

GM-12150 **McMORRIS, TREVOR C., New York Botanical Garden, Bronx, N.Y.**
fungi; antibiotics; molecular structure; instrumentation--methodology; sesquiterpenes; metabolites

GM-12151 **JONES, MARK M., Grad. Sch., Vanderbilt Univ., Nashville, Tenn.**
ferritin; metal complexes; iron; instrumentation-methodology; bioassay

GM-12152 **MARGERUM, DALE W., Sch. Sci., Purdue Univ., Lafayette, Ind.**
ligands; catalysts; metal; EDTA; polyamines; metal complexes; ion; reaction rates (chemistry) chemical bonds

GM-12153 **HOOGENBOOM, BERNARD E., Gustavus Adolphus Col., St. Peter, Minn.**
sulfur compounds; sulfocarboxylic acid; chemical structure-

GM-12296 **MARTIN, JAMES C., Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.**
organic compounds; carboxylic acids; N--bromosuccinimide; molecular structure; molecular rearrangement; reaction rates (chemistry); free radicals; stable isotope labeled oxygen

GM-12297 **BAULD, NATHAN L., Col. Arts, Sci., Univ. Texas, Austin, Tex.**
alkali metals; electron transport; polyions; polyanions; organic compounds; molecular orbitals; synthesis; molecular structure

GM-12316 **PIETRZYK, DONALD J., Sch. Liberal Arts, State Univ. Iowa, Iowa City, Iowa**
amines; ion exchange resins; ion exchange chromatography; ions..cation; solvents..nonaqueous solvents

GM-12328 **DE JONGH, DON C., Col. Liberal Arts, Wayne State Univ., Detroit, Mich.**
mass spectrometry; carbohydrates; molecular structure; uronic acids; synthesis; instrumentation--methodology; deuterium; aldobiouronic acids

GM-12329 **EISCH, JOHN J., Grad. Sch. Arts, Sci., Catholic Univ., Washington, D.C.**
synthesis; nitrogen compounds; aromatic compounds; organometallic compounds; lithium; substitution reactions (chemistry); addition reactions (chemistry); pyridines

GM-12385 **FARNUM, DONALD G., Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.**
nitrogen; heterocyclic compounds; pyridazines; synthesis

GM-12391 **RATNEY, RONALD S., Hood Col., Frederick, Md.**
anilines; fluorinated compounds; amino acids; colorimetry; proteins

GM-12407 **STERMITZ, FRANK R., Utah State Univ., Logan, Utah**
photochemistry; chemical bonds..bond cleavage; papaverine; synthesis; phenanthrenes; stilbenes; toxicology; chemical bonds..bond formation; cyclic compounds; alkaloids; chemical structure--biological activity

GM-12408 **EMERSON, MERLE T., Sch. Arts, Sci., Florida State Univ., Tallahassee, Fla.**
sesquiterpenes; lactones; stereochemistry; conformations (chemistry); plants; medicinal plants; methyl groups; genetics

GM-12437 **COWLEY, ALAN H., Grad. Sch., Univ. Texas, Austin, Texas**
phosphorus; sulfides; halogenation; molecular structure; synthesis; organic compounds; chemical structure--biological activity; hydroxylation reactions

GM-12477 **SCHOWEN, RICHARD L., Grad. Sch., Univ. Kansas, Lawrence, Kans.**
chemical bonds..bond cleavage; esters; organophosphorus compounds; solutions..aqueous solutions; solutions; methanol; tritium; acid anhydrides; reaction rates (chemistry); acetates

GM-12480 **ROBINSON, CHARLES N., Grad. Sch., Memphis State Univ., Memphis, Tenn.**
synthesis; tetrahydroisoquinoline; cyclic compounds; carbon--phosphorus bond; phosphines

GM-12512 **DWYER, JAMES M., Adelphi Univ., Gaden City, N.Y.**
selenium; aromatic compounds; free radicals; electrochemistry; oxidation--reduction; singlet state; triplet state; atomic orbitals; molecular energy levels; protonation; reaction rates (chemistry); ions..cation; ions..anion; solvents..nonaqueous solvents; synthesis

GM-12532 **MORIARTY, ROBERT M., Grad. Sch. Arts, Sci., Catholic Univ., Washington, D.C.**
alcohols; unsaturated compounds; lead tetraacetate; oxidation; cyclization; synthesis; polyenes; oxides; steroids; terpenes

GM-12598 **REILLEY, CHARLES N., Grad. Sch., Univ. North Carolina, Chapel Hill, N.C.**
nuclear magnetic resonance; amines; carboxylic acids; amino acids; ethylenediamines; metal complexes; stereochemistry; protons; metals; binding; ligands; functional groups; conformations (chemistry); dissociations constants; nitrogen

GM-12599 **OVERBERGER, CHARLES G., Polytechnic Inst., Brooklyn, N.Y.**
imidazoles; polymers; catalysts; solvolysis; dissociation constants; reaction rates (chemistry); thermodynamics; function groups; synthesis

GM-12600 **WEBER, JAMES H., Col. Tech., Univ. New Hampshire, Durham, N.H.**
metal complexes; iron; cobalt; nickel; pyrroles; magnetic field; electron charge distribution; ligands.. polydentate ligands; stereochemistry

GM-12604 **MARTIN, DEAN F., Col. Liberal Arts, Univ. Southern Florida, Tampa, Fla.**
metal; ion; chemical bonds..bond formation; Schiff bases; chemical bonds..bond cleavage; hydrolysis; amine; nitrogen; carbon

GM-12617 **DePUY, CHARLES H., Col. Arts, Sci., Univ. Colorado, Boulder, Colo.**
synthesis; cyclopentanes; unsaturated compounds; ketones; addition reactions (chemistry); reduction

GM-12625 **DENNEY, DONALD B., Sch. Chem., Rutgers Univ., New Brunswick, N.J.**
organophosphorus compounds; reaction rates (chemistry); stereochemistry; cyclic compounds; nucleophilic substitution; phosphites..phosphorus esters; phosphines; oxidation

GM-12626 **ANGELICI, ROBERT J., Col. Sci., Humanities, Iowa State Univ., Ames, Iowa**
metal complexes; catalysts; enzyme models; metalloenzymes; synthesis; ligands; amino acid esters

GM-12640 CRAM, DONALD J., Sch. Letters, Sci., Univ. California, Los Angeles, Cal.
synthesis; instrumentation--methodology; polymers; molecular asymmetry; racemization; resolution; stereochemistry; chromatography; optical rotation; isomers; carbonium ions; functional groups; sulfur; phosphorus

GM-12672 BURGESS, EDWARD M., Sch. Chem., Georgia Inst. Tech., Atlanta, Ga.
photochemistry; ketones; cyclic compounds; unsaturated compounds; cyclization; carbonyl groups; molecular rearrangement; triplet state; heterocyclic compounds; synthesis

GM-12692 SCHWEIZER, EDWARD E., Sch. Arts, Sci., Univ. Delaware, Newark, Del.
synthesis; heterocyclic compounds; phosphonium compounds; chemical structure--biological activity; alkaloids

GM-12730 KLEMM, LEROY H., Grad. Sch., Univ. Oregon, Eugene, Ore.
Diels--Alder reaction; synthesis; natural products; stereochemistry

GM-12731 SCHERER, KIRBY V., Jr., Col. Chem., Univ. California, Berkeley, Cal.
synthesis; molecular rearrangement; instrumentation--methodology; stereochemistry; hydrocarbons; chlorinated hydrocarbons; polycyclic compounds; reaction sites; carbanions; carbonium ions; deuterium; molecular shape; insecticides; virus inhibitors

GM-12732 NAGYVARY, JOSEPH, Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.
synthesis; oligonucleotides; protective groups (chemistry); chemical bonds..bond cleavage; chemical bonds..bond formation

GM-12758 FRANCK, RICHARD W., Grad. Sch., Fordham Univ., New York, N.Y.
synthesis; heterocyclic compounds; oxazolinones; molecular structure; cyclization

GM-12783 HUNT, JOHN B., Grad. Sch. Arts, Sci., Catholic Univ., Washington, D.C.
oxidation--reduction; stereochemistry; metal complexes; reaction sites (chemistry); cobalt; chromium; ligands; optical rotation; stable isotope labeled oxygen

GM-12832 RITCHIE, CALVIN D., Sch. Arts, Sci., State Univ. New York, Buffalo, N.Y.
protons; acid--base equilibrium; ion exchange and transport; solvents; reaction rates (chemistry); chemical bonds..bond cleavage; thermodynamics; chemical structure; deuterium

GM-12839 SOSNOVSKY, GEORGE, Grad. Sch., Illinois Inst. Technology, Chicago, Ill.
synthesis; peroxides; oxidation; free radicals; ions..anion; photochemistry; thermodynamics; phosphorus

GM-12843 HUTCHISON, ROBERT B., Col. Liberal Arts, Bowling Green State Univ., Bowling Green, Ohio
fatty acids; cyclic compounds; chemical structure--biological activity; toxicology; heat; anaerobiosis

GM-12844 MARTIN, R. BRUCE, Grad. Sch., Univ. Virginia, Charlottesville, Va.
conformations (chemistry); molecular structure; instrumentation--methodology; amino acids; metal complexes; amines; synthesis

GM-12848 HARRIS, THOMAS M., Grad. Sch., Vanderbilt Univ., Nashville, Tenn.
ketoacids; phenols; synthesis; chemical structure--biological activity; cyclization; bioassay

GM-12855 STREITWIESER, ANDREW, Jr., Col. Chem., Univ. California, Berkeley, Cal.
organic compounds; hydrocarbons; cyclic compounds; acid--base equilibrium; protons; molecular structure; chemical bonds; molecular orbitals; resonance (chemistry); substitution reactions (chemistry); fluorides; carbanions; deuterium; tritium

GM-12860 CRANDALL, JACK K., Col. Arts, Sci., Indiana Univ., Bloomington, Ind.
sesquiterpenes; molecular rearrangement; molecular structure; synthesis; natural products; functional groups; solvolysis

GM-12870 SHAFER, PAUL R., Dartmouth Col., Hanover, N.H.
laboratory facilities; nuclear magnetic resonance; instrumentation; molecular structure; conformations (chemistry); stereochemistry; metal complexes; reaction rates (chemistry); chelation; ligands; enzymes; solvents; solutions; boron compounds; terpenes..diterpenoids; polymers; proteins; antineoplastic agents; radiation therapy; organic compounds; dehydratases..D--2--ohosphoglycerate hydrolyase; nitrogen; sulfur; synthesis

GM-12890 CURPHEY, THOMAS J., Grad. Sch., Yale Univ., New Haven, Conn.
synthesis; plants..Lycopodium; alkaloids

GM-12952 WHEELER, OWEN H., Col. Arts, Sci., Univ. Puerto Rico, Mayaguez, P.R.
synthesis; estrone analogs; thiophenes; steroids; chemical structure--biological activity; sulfur

GM-12958 FRASER, ROBIN T., Grad. Sch., Univ. Kansas, Lawrence, Kans.
oxidation--reduction; charge transfer complexes; electron acceptors; electron donors; reaction rates (chemistry); temperature; ions; pyridines; ligands

GM-13100 KIER, LEMONT B., Col. Pharm., Ohio State Univ., Columbus, Ohio
azoles; chemical structure--biological activity; electron charge distribution; sympathomimetic agents; antihypertensive agents; bactericides; antineoplastic agents; sydnones; thiadiazoles; synthesis

GM-13117 NELSON, DAVID A., Col. Arts, Sci., Univ. Wyoming, Laramie, Wyo.
photochemistry; nitrogen; nitrogen compounds; curare; dihydropyridines; oxidation--reduction; imines; synthesis

GM-13183 COHEN, SAUL G., Sch. Sci., Brandeis Univ., Waltham, Mass.
laboratory facilities; nuclear magnetic resonance; enzymes; proteases..chymotrypsin; photochemistry; sulfur compounds; free radicals; molecular rearrangement; deuterium; chemical structure; cyclophosphamide; terpenes..sesquiterpenes; terpenoids; steroids; synthesis; alkaloids; medicinal plants..Amaryllis; medicinal plants; reaction rates (chemistry)..fast reactions; ferrocene; von Richter reaction

GM-13184 DOMINGUEZ, XORGE A., Inst. Tecnologico de Monterrey, Monterrey, N.L., Mexico
cactus; medicinal plants; toxicology; chemical structure--biological activity; taxonomy; antineoplastic agents; cardioactive agents

GM-13245 WORTHEN, LEONARD R., Col. Pharm., Univ. Rhode Island, Kingston, R.I.
conferences..international meetings; taxonomy; medicinal plants; drugs; travel

GM-13246 LEETE, EDWARD, Grad. Sch., Univ. Minnesota, Minneapolis, Minn.
alkaloids; enzymes; radiolabeled carbon; tritium

GM-13572 FERRIS, JAMES P., Salk Inst. Biological Studies, San Diego, Cal.
amino..tertiary amines; iron; electrophilic substitution; catalysts; free radicals

HD-00764 KENT, GERALD J., Rider Col., Lawrenceville, N.J.
halides; chemical bonds; ketosteroids; unsaturated compounds; sex hormones; antigonadotropic agents; addition reactions (chemistry)

HD-01807 LONGONE, DANIEL T., Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
pheromones; cyclopropane; synthesis; insects control

HE-01713 LYLE, ROBERT E., Grad. Sch., Univ. New Hampshire, Durham, N.H.
chemical structure--biological activity; molecular rearrangement; piperidines; synthesis

HE-02170 BRADSHER, CHARLES K., Grad. Sch. Arts, Sci., Duke Univ., Durham, N.C.
antihypertensive agents; heterocyclic compounds; synthesis

HE-02275 KUPCHAN, S. MORRIS, Sch. Pharm., Univ. Wisconsin, Madison, Wis.
alkaloids; steroids; Buxus alkaloids; Jerveratrum alkaloids; Veratrum alkaloids; Rauwolfia alkaloids; synthesis; chemical structure--biological activity; steroid hormones analogs; quinolizidines; cevadine; solvolysis; esters; peptides; chemical bonds

HE-02952 KUPCHAN, S. MORRIS, Sch. Pharm., Univ. Wisconsin, Madison, Wisconsin
screening; plants; alkaloids; antineoplastic agents; chemical structure--biological activity; fractionation; synthesis

HE-05266 GUT, MARCEL, Worcester Fdn. Exptl. Biol., Shrewsbury, Mass.
azasteroids; synthesis

HE-05308 STABA, E. JOHN, Sch. Pharm., Univ. Nebraska, Lincoln, Nebr.
tissue culture; medicinal plants; cardiac glycosides

HE-05706 HUFFMAN, JOHN W., Grad. Sch., Clemson Col., Clemson, S.C.
synthesis; hecogenin acetate; cevine; reduction; 12-ketosteroids

HE-05881 CRAIG, JOHN C., Univ. California Med. Ctr., San Francisco, Cal.
esterification; oxidation; hemiacetals; atherosclerosis; plasmalogens

HE-05915 BURCKHALTER, JOSEPH H., Sch. Pharm., Univ. Michigan, Ann Arbor, Mich.
synthesis; steroid hormones; steroid hormones analogs; antihypertensive agents; atherosclerosis

HE-06195 ANGYAL, STEPHEN J., Sch. Chem., Univ. New South Wales, Kensington, Australia
glycerophosphate; inositol phosphates; inositol phosphates analogs; synthesis

HE-06411 CHANG, STEPHEN S., Sch. Agr., Rutgers, The State Univ., New Brunswick, N.J.
hydrogenation; oils; fats; chemical bonds..bond formation; chemical structure; lipids; atherosclerosis; gases

HE-06475 POTTS, KEVIN T., Col. Arts, Sci., Univ. Louisville, Louisville, Ky.
antihypertensive agents; indoles; synthesis; yohimbine

HE-06569 GISVOLD, OLE, Univ. Minnesota, Minneapolis, Minn.
medicinal plants; digitalis

HE-07050 COKE, JAMES L., Grad. Sch., Univ. North Carolina, Chapel Hill, N.C.
chemical structure; alkaloids; carpaine; pseudo-carpaine; synthesis; medicinal plants, papaya

HE-07101 SOINE, TAITO O., Col. Pharm., Univ. Minnesota, Minneapolis, Minn.
vasoactive agents..vasodilators; medicinal plants; coumarins; chemical structure- biological activity; synthesis

(cont'd)

MEDICINAL CHEMISTRY (CONTD)

HE-07502 **BEAL, JACK L., Col. Pharm., Ohio State Univ., Columbus, Ohio**
alkaloids; antihypertensive agents; antineoplastic agents; medicinal plants..Thalictrum

HE-07503 **WILDMAN, WILLIAM C., Grad. Sch., Iowa State Univ. Sci., Tech., Ames, Iowa**
alkaloids; medicinal plants; molecular rearrangement; radiolabeled

HE-07789 **POSTERNAK, THEODORE, Sch. Chem., Univ. Geneva, Geneva, Switzerland**
chemical structure--biological activity; lipids; nucleotides; nucleotides analogs; phosphates; sugar; synthesis

HE-07967 **COKE, JAMES L., Univ. North Carolina, Chapel Hill, N.C.**
alkaloids; chemical structure--biological activity; growth; plants; synthesis

HE-06413 **WHISTLER, ROY L., Sch. Agr., Purdue Univ., Lafayette, Ind.**
polysaccharides; synthesis; blood coagulation..anti-coagulants; functional groups, amine; sulfates; carboxyl group; chemical structure--biological activity; bioassay; molecular structure

HE-08555 **SMISSMAN, EDWARD E., Sch. Pharm., University Kansas, Lawrence, Kansas**
adrenergic receptors; conformations (chemistry); sympatholytic agents; sympathomimetic agents; chemical structure--biological activity; synthesis; molecular shape; phenylethylamines; apomorphine alkaloids; functional groups; stereochemistry; synthesis

HE-08780 **BAER, ERICH, Univ. Toronto, Toronto, Ontario, Canada**
phospholipids; blood coagulation; chemical structure--biological activity; synthesis; blood disorders; phosphatidyl serine; phosphatidyl ethanolamine; blood coagulation..anticoagulants

HE-08913 **ROBINSON, CECIL H., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
synthesis; cardioactive agents..cardiotonic drugs; chemical structure--biological activity; aglycones; functional groups; butenolides; 14--beta--hydroxy-steroids

HE-09034 **SOEDER, ROBERT W., Wilkes College, Wilkes-Barre, Pa.**
synthesis; indans; thiophenes; pyrroles; furans; chemical structure--biological activity; blood coagulation..anticoagulants

HE-09424 **ARAKAWA, KIKUO, Sch. Med., Kyushu Univ., Fukuoka, Japan**
angiotensin II; kidney; chemical structure; hypertension (systemic); peptides

HE-09521 **DOLBY, LLOYD J., Col. Liberal Arts, Univ. Oregon, Eugene, Ore.**
synthesis; alkaloids; indoles; cyclization; chemical bonds..bond formation; chemical bonds..bond cleavage; Alstonia alkaloids

HE-09677 **ANDERSON, RICHARD C., Col. Sci., Utah State Univ., Logan, Utah**
cardioactive agents; alkaloids; arrhythmia, cardiac; chemical structure--biological activity; synthesis

HE-09678 **VASKA, LAURI, Sch. Sci., Clarkson Col. Tech., Potsdam, N.Y.**
hemoglobin; oxygen transport; metal complexes; molecular structure; reaction rates (chemistry); substitution reactions (chemistry); ligands; phosphines

MH-02037 **MILLER, FRANCIS M., Sch. Pharm., Univ. Maryland, Baltimore, Md.**
Aspidosperma alkaloids; chemical structure--biological activity; Iboga alkaloids; indoles; Mitragyna alkaloids; psychotropic drugs; synthesis

MH-03930 **BOSE, AJAY K., Grad. Sch., Stevens Inst. Technology, Hoboken, N.J.**
synthesis; lactams; heterocyclic compounds; psychotropic drugs

MH-04582 **CRAIG, JOHN CYMERMAN, Sch. Pharm., Univ. California Med. Ctr., San Francisco, Cal.**
synthesis; lysergic acid; chemical structure--biological activity

MH-07314 **GOLDBERG, STANLEY I., Grad. Sch., Univ. South Carolina, Columbia, S. C.**
legumes; alkaloids

MH-07611 **JOHNSON, CARL R., Col. Liberal Arts, Wayne State Univ., Detroit, Mich.**
thiazines; synthesis; chemical structure

MH-07702 **ELKIN, SAMUEL, Sch. Pharm., Temple Univ., Philadelphia, Pa.**
piperidines; synthesis; chemical structure--biological activity; psychotropic drugs; autonomic agents; centrally acting drugs; quinuclidines

MH-07775 **CANNON, JOSEPH G., Col. Pharm., State Univ. Iowa, Iowa City, Iowa**
psychotomimetic agents; hallucinogens; synthesis; esters; glycolate; chemical structure--biological activity

MH-07825 **POPOV, ALEXANDER I., Col. Natural Sci., Michigan State Univ., East Lansing, Mich.**
tetrazoles; convulsants; depressants; chemical structure; synthesis; substitution reactions (chemistry); nucleophilic substitution

MH-08290 **SILVA, RICARDO A., San Fernando Valley State Col., Northridge, Cal.**
bufotenine; hallucinogens; indoles; oxidation; psychotomimetic drugs; serotonin; synthesis

MH-08331 **WOOD, HAMISH C.S., Royal Col. Sci. and Technology, Glasgow, Scotland**
steridines; isomers; synthesis; oxidation; tritium; phenylalanine; phenylketonuria

MH-08439 **AUTREY, ROBERT L., Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.**
alkaloids; chemical structure; gelsemine; stereochemistry; synthesis

MH-08762 **ALDOUS, JOAN, Col. Liberal Arts, Univ. Minnesota, Minneapolis, Minn.**
creativity; children; family..parent--child;

MH-08787 **KUMLER, WARREN D., Univ. California Med. Ctr., San Francisco, Cal.**
heterocyclic compounds; imidazoles; synthesis; substitution reactions (chemistry); molecular condensations; nitrogen; sulfur; oxygen; urea; glyoxals; thiazoles; hydantoins; chemical structure--biological activity; tranquilizers; antineoplastic agents

MH-08912 **KATZ, THOMAS J., Columbia Univ., N.Y.C.**
synthesis; cyclic compounds; tranquilizers; carcinogens

MH-10105 **DOLBY, LLOYD J., Col. Liberal Arts, Univ. Oregon, Eugene, Ore.**
cannabinols; synthesis; chemical structure--biological activity; stereochemistry

MH-10106 **BRUTCHER, FREDERICK V., Jr., Col. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.**
alkaloids; reserpine; yohimbine; synthesis; cyclic compounds; indoles

MH-10107 **AUGUSTINE, ROBERT L., Seton Hall Univ., South Orange, N.J.**
Iboga alkaloids; synthesis; indoles; chemical structure; stimulants; antineoplastic agents

MH-10285 **POWERS, JAMES C., Col. Letters, Sci., Univ. California, Los Angeles, Cal.**
synthesis; psychotropic drugs; bufotenine; indoles; chemical structure--biological activity

MH-10450 **CRAIG, JOHN C., Sch. Pharm., Univ. California, San Francisco, Cal.**
synthesis; chlorpromazine; sulfoxides; oxygen transport; metabolites; chemical structure--biological activity

MH-10673 **BLANTON, C. DeWITT, Jr., Sch. Pharm., Auburn Univ., Auburn, Ala.**
indoles analogs; heterocyclic compounds; serotonin inhibitors; antihypertensive agents; synthesis; chemical structure--biological activity; tryptamine; Rauwolfia alkaloids; pyrroles; thiophenes; furans

NB-01445 **BURGER, ALFRED, Grad. Sch., Univ. Virginia, Charlottesville, Va.**
functional groups; chemical structure--biological activity; London--van der Waal's forces; binding; analgesics; enzyme inhibitors..monoamine oxidase inhibitors; cyclopropane; drugs receptors

NB-02733 **SMISSMAN, EDWARD E., Univ. Kansas, Lawrence, Kansas**
chemical structure--biological activity; pyrones; synthesis

NB-02921 **BOEKELHEIDE, VIRGIL C., Grad. Sch., Univ. Oregon, Eugene, Ore.**
alkaloids; chemical structure; plants; quaternary ammonium compounds; screening

NB-03593 **HITE, GILBERT J., Col. Pharm., Columbia Univ., New York, N.Y.**
optical rotatory dispersion; 3--benzoyl--3--alkoxypiperidines; 3--benzoyl--3--acyloxypiperidines; synthesis; a--oxygenated ketones; molecular structure; anesthetics

NB-04313 **EPSTEIN, WILLIAM W., Univ. Utah, Salt Lake City, Utah**
narcotics; medicinal plants..Stipa vaseyi; chemical structure; depressants; cardioactive agents

NB-04349 **CANNON, JOSEPH G., Sch. Pharm., State Univ. Iowa, Iowa City, Iowa**
apomorphine analogs; centrally acting drugs; chemical structure--biological activity; emesis; synthesis

NB-04529 **CAVA, MICHAEL P., Ohio State Univ. Res. Fdn., Columbus, Ohio**
alkaloids; bisbenzylisoquinolines; curarines; oxidation; phenols; synthesis; d-tubocurarine

NB-04589 **HUFFMAN, JOHN W., Sch. Arts, Sci., Clemson Col., Clemson, S.C.**
chemical structure--biological activity; Iboga alkaloids; oxindoles; synthesis

NB-04748 **TAYLOR, ELMORE H., Col. Pharm., Univ. Tennessee, Memphis, Tenn.**
alkaloids; cocaine; radiolabeled carbon; tropanes

NB-05032 **MARTIN, CHARLES F., Col. Pharm., Washington State Univ., Pullman, Wash.**
synthesis; muscle relaxants..anticonvulsants; epilepsy; piperidines; ketones; glutarimide; amino groups; chemical structure--biological activity

NB-05192 **PORTOGHESE, PHILIP S., Col. Pharm., Univ. Minnesota, Minneapolis, Minn.**
stereochemistry; analgesics; narcotics; drugs receptors; methadol; phenampromid; prodine; chemical structure--biological activity; hydroxyl groups; methyl groups

NB-05639 **GATES, MARSHALL, Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.**
analgesics; synthesis; drugs interaction; chemical structure--biological activity; morphine; functional groups

NB-05884 WINSTEAD, MELDRUM B., Col. Arts, Sci., Bucknell Univ., Lewisburg, Pa.
synthesis; cyclization; molecular condensations; bicyclo--octanes; hydantoins

OH-00202 JUENGE, ERIC C., Kansas State Col. Pittsburg, Pittsburg, Kans.
Diels--Alder reaction; dienes; lead; organic compounds; chemical bonds..bond cleavage; synthesis

RH-00193 SMITH, WALTER T., Jr., Grad. Col., Univ. Kentucky, Lexington, Kentucky
sulfinamides; thiols; synthesis; radiation protection; radiation sensitivity

RH-00279 DAVIS, ROBERT E., Sch. Sci., Purdue Univ., Lafayette, Ind.
chemical structure--biological activity; drugs; electron donors; molecular structure; radiation protection; reaction rates (chemistry); thermodynamics

RH-00293 COVIELLO, DOMINICK A., Col. Pharm., Chicago, Ill.
radiation protection drugs; synthesis; alkyloximino acids; thiols

RH-00297 FOYE, WILLIAM O., Massachusetts Col. Pharm., Boston, Mass.
radiation protection; synthesis; thiols; functional groups; metal complexes; disulfide bonds; radiation protection drugs

RH-00300 SEARLES, SCOTT, JR., Col. Arts, Sci., Kansas State Univ., Manhattan, Kans.
a-aminothiols; molecular structure; synthesis; functional groups; chemical structure--biological activity; a-amino sulfides; bioassay; cancer chemotherapy; radiation protection drugs; thiones

RH-00324 WITIAK, DONALD T., Col. Pharm., State Univ. Iowa, Iowa City, Iowa
radiation protection; radiation protection drugs; synthesis; succinimide; glutarimide; chemical structure--biological activity; binding; free radicals; thiols; imides

WP-00675 HAINES, THOMAS H., City Col., City Univ. New York, N.Y.C.
sulfathiols; lipids; molecular structure; algae.. Ochromonas; detergents

MENTAL HEALTH

AI-06188 FEINGOLD, BEN F., 2425 Geary Blvd., San Francisco, Cal.
hypersensitivity; skin tests; psychological tests; diagnostic tests; MMPI; Rorschach

CA-07806 CREMER, SHELDON E., Illinois Inst. Technology, Chicago, Ill.
heterocyclic compounds; organophosphorus compounds; synthesis; molecular structure; conformations (chemistry); oxides; antineoplastic agents

CA-07891 POPP, FRANK D., Clarkson Col. Technology, Potsdam, N.Y.
antineoplastic agents; medicinal plants; chemical structure--biological activity; fractionation

CD-00015 REITAN, RALPH M., Indiana U. Med. Ctr., Indianapolis, Ind.
Halstead battery; psychometrics; children; adults; brain damage; age

CD-00029 BENNETT, RUTH, Res. Fdn. M.H., Middletown, N.Y.
aging; social adjustment; isolation; socioeconomics.. housing; nursing homes; mental hospitals; social organization..institutional organization

CD-00104 ROSENBLATT, DANIEL, Medical and Hlth. Res. Assn. of New York, New York, N.Y.
smoking; group therapy; preventive medicine; therapy evaluation; interpersonal behavior; longitudinal study; public health; education..university students; academic achievement; intelligence

CD-00149 GUILFORD, JOAN S., American Inst. Research, Los Angeles, Cal.
smoking; behavior; behavioral adjustment; criteria; survey; motivation; attitude; statistics

CH-00132 KAY, MARGARITA, St. Mary's Hosp., Tucson, Ariz.
ethnic groups..Mexican--Americans; ethnic groups.. Mexicans; pregnancy..childbirth; maternal behavior; child care; patient care; socioculture; superstitions

DH-00020 SOBOLIK, CLINTON F., Sch. Dent., Creighton Univ., Omaha, Nebr.
dental prosthesis..dentures; MMPI; prediction; emotional reactions

GM-11593 PARTCH, RICHARD E., Grad. Sch., New Mexico Highlands Univ., Las Vegas, N.M.
alkaloids; analgesics; chemical structure--biological activity; functional groups; samandarin; synthesis; vasoactive agents

GM-11721 BATES, ROBERT B., Univ. Arizona, Tuscon, Ariz.
chemical structure--biological activity; stereochemistry; synthesis; terpenoids

MH-00219 FURTH, HANS G., Children's Hosp. Res. Fdn., Washington, D.C.
aphasia; children; learning; sequential learning; psychology; deafness; mental retardation; memory-retention; semantics, language

HD-00317 MENZER-BENARON, DORIS, Sch. Med., Harvard Univ., Boston, Mass.
conflict; longitudinal study; fertility; menstruation disorders; personality; sex hormones; psychoanalysis; psychotherapy; psychophysiology; adrenal cortex hormones; pituitary hormones

HD-00319 COBB, KATHERINE, Cornell Univ. Med. Col., N.Y.C.
child development; infants (human); behavioral adjustment; ethnic groups, Bantu; ethnic groups, Americans

HD-00325 MONEY, JOHN, Johns Hopkins Hosp., Baltimore, Md.
hormones; psychology; hermaphroditism; sexual precocity; identification; sex difference; genetics; chromosomes; genetics..sex determination; intelligence; growth hormones; endocrine glands disorders; cytology; metabolic diseases; dwarfism

HD-00332 KARELITZ, SAMUEL, Long Island Jewish Hosp., New Hyde Park, N.Y.
longitudinal study; infant human..premature infants; behavior; magnetic recording system; threshold; speech; intelligence; diagnostic tests; brain damage; anesthesia; mongolism; child development; vocalization

HD-00336 KATES, SOLIS L., Univ. Massachusetts, Amherst, Mass.
children; deafness; problem solving; hearing; thinking; memory-retention; semantics, language

HD-00363 AMBROSE, JOHN A., Tavistock Inst. Human Relations, London, England
pleasure-displeasure; infant human; vocalization; interpersonal behavior; family..parent-child; respiration; heart rate; muscle tone; maternal behavior

HD-00364 LIEBERMAN, MORTON A., Univ. Chicago, Chicago, Ill.
stress; social adjustment; aging; nursing homes; psychometrics; socioenvironment; ego; Bender--Gestalt test; longitudinal study; interpersonal behavior

HD-00367 STROTHER, CHARLES R., Univ. Washington, Seattle, Wash.
aging; cognition; psychological tests; prediction; longitudinal study; intelligence

HD-00658 LINDE, LEONARD M., Univ. California, Los Angeles, Cal.
congenital heart disease; children; intelligence; heart surgery; cyanosis

HD-00716 MINKOWSKI, ALEXANDRE, Hosp. Baudelocque, Paris, France
child development; body image; muscle tone; neuromuscular system; body movement; intelligence; infant human..newborn; neuropsychological tests; nervous system disorders; emotional disturbance; learning

HD-00754 OSLER, SONIA F., Johns Hopkins Hosp., Baltimore, Md.
child development; mental processes; concept learning; cognition; discrimination; intelligence; visual stimulus

HD-00761 WHITE, BURTON L., Mass. Inst. Technology, Cambridge, Mass.
infants; human; child development; vision; vision tests; eye movement; behavior; environment; experience

HD-00825 KORNER, ANNELIESE F., 300 Pasteur Dr., Palo Alto, Cal.
infants, human..newborn; response; behavior; drive; ego; prediction; longitudinal study; child development

HD-00868 SONTAG, LESTER W., Fels Res. Inst., Yellow Springs, Ohio
research programs; intelligence; age; personality; psychophysiology; sex difference; perception; infant human; children..adolescence; behavior; cardiovascular system; hypertension (systemic); body composition; amino acids; hair

HD-00869 CROWELL, DAVID H., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii
child development; psychophysiology; infants (human); arousal; brain; nervous system..autonomic nervous system; pregnancy..perinatal; behavior; stress; touch; visual stimulus; audiostimulus

HD-00870 SCHIEFELBUSCH, RICHARD L., Grad. Sch., Univ. Kansas, Lawrence, Kansas
children; communicative disorders; discrimination; dyadic interaction; friendship; learning..association learning; learning..overlearning; longitudinal study; memory-retention; mental retardation; peer group; questionnaire; research programs; social behavior; therapy evaluation; training

HD-00874 WEIR, MORTON W., Univ. Illinois, Urbana, Ill.
learning; children; reinforcement; age

HD-00879 MEYER, WILLIAM J., Sch. Natural Sci., Univ. Pittsburgh, Pittsburgh, Pa.
children; learning..mediation; stimulus generalization; conditioning..verbal conditioning; aggression; habit; drive; attitudes; family..parents; sex difference

HD-00885 COLVIN, RALPH W., Astor Home for Children, Rhinebeck, N.Y.
foster homes; family..parents; attitude; emotional disturbance; children; social service; behavioral adjustment; psychological tests; success--failure; prediction

HD-00890 KESSEN, WILLIAM, Grad. Sch., Yale Univ., New Haven, Conn.
infants, human..newborn; behavior; stress; body movement; vocalization; learning

(contd)

MENTAL HEALTH (CONTD)

HD-00892 CANTOR, GORDON N., State Univ. Iowa, Iowa City, Iowa
stimulus: exploratory behavior; learning; motivation; children; infants (human); galvanic skin response; heart rate

HD-00925 BEILIN, HARRY, Sch. Liberal Arts, Sci., Brooklyn Col., Brooklyn, N.Y.
child development; logic; thinking; learning; cognition; biomathematics; semantics..language

HD-00961 PALERMO, DAVID S., Col. Liberal Arts, Pennsylvania State Univ., University Park, Pa.
age; children; computer analysis; word association

HD-01005 MEILI, RICHARD, Faculty Philosophy, Univ. Berne, Berne, Switzerland
psychometrics; emotional reactions; child development; infant human; visual stimulus; orientation

HD-01045 BARNET, ANN B., Washington Sch. Psychiatry, Washington, D.C.
electroencephalography; potentials..evoked potentials; computer analysis; infant human..newborn; sensory mechanisms; sensory disorders; child development; form perception; behavior; conditioning; psychological tests

HD-01056 WILLIAMS, R.D. BROOKE, Univ. Louisville Med. Sch., Louisville, Ky.
pregnancy, perinatal; hypoxia neonatorum; infant human..newborn; longitudinal study; brain damage; neuropsychological tests; behavior rating scales

HD-01059 KEOGH, JACK F., Univ. California, Los Angeles, Cal.
children; longitudinal study; performance; body movement; limbs movement; physical fitness

HD-01060 PURCELL, KENNETH, Children's Asthma Res. Inst., Hosp., Denver, Colo.
asthma; children; socioenvironment; psychology; separation; family; interviews; travel

HD-01092 MACCOBY, ELEANOR E., Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.
child development; attention; communication theory; cues; audiostimulus; alertness--vigilance; learning

HD-01095 WORTIS, JOSEPH, Jewish Hosp., Brooklyn, N.Y.
research programs; mental retardation; emotional disturbance; cerebral palsy; brain damage; diagnostic tests; psychophysiology; infant human.. newborn; children; conditioning; nervous system.. autonomic nervous system; performance; heart rate

HD-01102 FELDSTONE, CHARLES, Col. Arts, Sci., Univ. Connecticut, Storrs, Conn.
child development; learning; performance; reinforcement; mathematical models; prediction; sex difference; mental age

HD-01105 BERNARD, VIOLA W., Col. Phys., Surg., Columbia Univ., New York, N.Y.
antifertility factors; pregnancy..childbirth; sex difference; family..marriage; psychotherapy; counselling; psychophysiology; attitude; role; fear; sex behavior; interpersonal behavior; interviews recording; coding

HD-01107 RHEINGOLD, HARRIET L., Sch. Arts, Sci., Univ. North Carolina, Chapel Hill, N.C.
child development; infant human; exploratory behavior; learning; visual stimulus; audiostimulus; touch; interpersonal behavior; attention; conditioning..operant conditioning; reinforcement; maternal behavior; social behavior

HD-01155 ESCALONA, SIBYLLE K., Albert Einstein Col. Med., New York, N.Y.
infant human; child development; cognition; ego; maternal behavior; experience; behavior rating scales; longitudinal study

HD-01325 BOTWINICK, JACK, Duke Univ. Med. Cr., Durham, N.C.
aging; psychophysiology; age; sex difference; reaction time; hearing; visual perception; psychomotor functions; depression; vascular disorders

HD-01418 SILBERSTEIN, RICHARD M., Staten Island Mental Hlth. Soc., Inc., Staten Island, N.Y.
infant human..premature infant; child care; hospitals..nursery; hospitals patients; maternal behavior; child care personnel; child development; biometry; psychometrics; body weight

HD-01428 CAMPBELL, DAVID P., Univ. Minnesota, Minneapolis, Minn.
occupations; interests; psychometrics; pleasure--displeasure; behavior; computer analysis

HD-01431 BRISON, DAVID W., Sch. Educ., Central Michigan Univ., Mt. Pleasant, Mich.
intelligence; learning; conditioning..extinction; concept; cognition; training; psychometrics; mental retardation; gifted children; children

HD-01433 POLLACK, ROBERT H., Inst. Juvenile Res., Chicago, Ill.
intelligence; visual perception; visual threshold; cognition; child development; children; deviant behavior; diagnostic tests; preventive medicine

HD-01443 DIGMAN, JOHN M., Col. Arts, Sci., Univ. Hawaii, Honolulu, Hawaii
judgment; psychophysics; behavior rating scales; children; personality; child development; computer analysis

HD-01445 LANGNER, THOMAS S., New York Univ. Med. Cr., New York, N.Y.
children; behavior; family..parents; values; socioeconomics; ethnic groups; questionnaire; interviews

HD-01456 WALTERS, RICHARD H., Fac. Arts, Univ. Waterloo, Waterloo, Ontario, Canada
self--organization; social psychology; deviant behavior; rewards and nonrewards; family..child rearing; children..adolescence; visual stimulus; arousal; aggression

HD-01484 HAEBERLE, ANN, Inst. Child Development, Exptl. Educ., New York, N.Y.
intelligence tests; performance; age; children; sex difference; socioeconomics; family..parents; ethnic groups; religion; siblings; thematic apperception tests

HD-01603 TAYLOR, CHARLES, Pennsylvania State Univ., University Park, Pa.
family..parents; family..children; family..marriage; age; longevity; sex difference; documentation systems; religion

HD-01625 NEUBAUER, PETER B., Jewish Board of Guardians, New York, N.Y.
longitudinal study; twins; genetics..homozygotes; environment; infant human; child development; psychological tests; documentation systems

HD-01657 WINITZ, HARRIS, Sch. Arts, Sci., Univ. Missouri, Kansas City, Mo.
speech disorders; children; learning; reinforcement; rewards and nonrewards; hearing..auditory discrimination

HD-01811 FITZHUGH, KATHLEEN B., New Castle State Hosp., New Castle, Ind.
Halstead battery; neuropsychological tests; brain damage; training; criteria; teaching machine; rehabilitation

HE-08958 BIBRING, GRETE L., Beth Israel Hosp., Boston, Mass.
myocardial infarct; emotional reactions; behavioral adjustment; age; socioenvironment; sex difference; family..marriage; prediction; interviews

HE-09480 DALY, WALTER J., Indiana Univ. Med. Cr., Indianapolis, Ind.
Stanford scale of hypnotic susceptibility; pulmonary ventilation; pulmonary airway resistance; exercise; carbon dioxide; respiration; respiratory diseases; brain..respiratory center

MH-00348 WAPNER, SEYMOUR, Grad. Sch., Clark Univ., Worcester, Mass.
age; aging; children; cognition; emotional disturbance; learning; perception; personality; psychiatric patients; psychophysiology

MH-00628 WITKIN, HERMAN A., Col. Med., State Univ. New York, Brooklyn, N.Y.
personality; perception; intelligence; children; age; maturity; therapy; defense mechanisms; dreams; family.. parent--child; blindness; mental retardation

MH-00637 HAGGARD, ERNEST A., Sch. Med., Univ. Illinois, Chicago, Ill.
psychoanalysis; interpersonal behavior; verbal behavior; emotional reactions; psychotherapy

MH-00648 DOLLARD, JOHN, Grad. Sch., Yale Univ., New Haven, Conn.
motivation; psychometrics; psychotherapy; success-failure; verbal behavior

MH-00712 SARASON, SEYMOUR B., Grad. Sch., Yale Univ., New Haven, Conn.
children; longitudinal study; anxiety; intelligence tests; verbal behavior

MH-00750 ENGEL, GEORGE L., Univ. Rochester Med. Sch., Rochester, N.Y.
stomach..gastric juice; hydrochloric acid; hypnosis; emotional reactions; verbal behavior; fantasy

MH-01098 WRIGHT, HERBERT F., Grad. Sch., Univ. Kansas, Lawrence, Kans.
social adjustment; community; social organization; geographical sites..United States, Midwest; cognition; children; social psychology; socioenvironment; interpersonal behavior

MH-01099 ZEAMAN, DAVID, Univ. Connecticut, Storrs, Conn.
learning; training; mental retardation; psychometrics

MH-01206 ERIKSEN, CHARLES W., Sch. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
awareness; learning; unconsciousness; verbal behavior; personality; defense mechanisms; neuroses; discrimination; visual perception; attention

MH-01293 EPSTEIN, SEYMOUR, Grad. Sch., Univ. Massachusetts, Amherst, Mass.
apperception; cognition; conflict; drive; nervous system.. autonomic nervous system; space medicine; thematic apperception test

MH-01733 CATTELL, RAYMOND B., Sch. Lib. Arts, Univ. Illinois, Urbana, Ill.
statistics; personality; psychometrics; age; socioculture; family; education; genetics

MH-02011 GRAHAM, DAVID T., Univ. Wisconsin, Madison, Wis.
attitudes; stress; psychophysiology; interviews recording; psychosomatic medicine; emotional reactions

MH-02232 BIJOU, SIDNEY W., Grad. Sch., Univ. Washington, Seattle, Wash.
discrimination; learning; children; mental retardation; reinforcement; stimulus; behavior

MH-02238 CRANDALL, VAUGHN J., Fels Res. Inst., Yellow Springs, Ohio
academic achievement; attitudes; family..parent-child; identification; motivation

MH-02257 **SHEVRIN, HOWARD**, Menninger Fdn., Topeka, Kans.
dreams; imagery; perception; cognition; subliminal; hypnosis; semantics..language

MH-02292 **MILLER, LOVICK C.**, Louisville Child Guidance Clin., Louisville, Ky.
attitudes; children; emotional disturbance; family..parent-child; personality; statistics

MH-02446 **BLOCH, DONALD A.**, Jewish Bd. Guardians, N.Y.C.
children; emotional disturbance; family; longitudinal study; psychometrics; psychotherapy; therapy evaluation

MH-02878 **MESSICK, Samuel J.**, Educ. Testing Service, Princeton, N.J.
personality; psychometrics; mental disorders

MH-02980 **McCLELLAND, DAVID C.**, Grad. Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
alcoholism; diagnostic tests; education; experience; fantasy; mental disorders; morbidity; motivation; values

MH-02985 **COLVIN, RALPH W.**, Kennedy Child Study Cr., N.Y.C.
mental retardation; family..parents; attitudes; social adjustment; psychometrics; child development

MH-03040 **CONGER, JOHN J.**, Sch. Med., Univ. Colorado, Denver, Colo.
automobile accidents; behavior; children; juvenile delinquency; longitudinal study; mental disorders; prediction; psychological tests

MH-03223 **HOLTZMAN, WAYNE H.**, Univ. Texas, Austin, Tex.
cognition; computer; Holtzman inkblot test; perception; personality

MH-03267 **FISHER, CHARLES**, Mt. Sinai Hosp., N.Y.C.
dreams; sleep; psychophysiology; psychoses; psychotropic drugs; thinking; memory; age; verbal behavior; narcolepsy

MH-03326 **SPIEGEL, JOHN P.**, Harvard Univ., Cambridge, Mass.
attitudes; emotional disturbance; family; interpersonal behavior; social adjustment; socioculture

MH-03546 **BURDOCK, EUGENE I.**, Res. Fdn. for Mental Hygiene, Inc., Middletown, N.Y.
behavior rating scales; psychometrics; psychiatric patients; children; therapy; social adjustment; interviews; mental processes; therapy evaluation

MH-03569 **HOLLINGSHEAD, AUGUST B.**, Grad. Sch., Yale Univ., New Haven, Conn.
age; community; hospitals release; longitudinal study; psychiatric patients; sex difference; social adjustment; socioeconomics; socioenvironment; therapy

MH-03614 **THOMAS, ALEXANDER**, New York Univ. Med. Cr., New York, N.Y.
longitudinal study; child development; behavioral adjustment; interviews; psychological tests; family..child rearing; attitudes

MH-03634 **FOX, HENRY**, Sch. Med., Harvard Univ., Boston, Mass.
psychophysiology; personality; brain..hypothalamus; perception; 17-hydroxycorticosteroids; 17-ketosteroids; ACTH; proteases..pepsinogen; body temperature; electroencephalography; interviews; psychological tests; twins

MH-03639 **WHITE, SHELDON H.**, Grad. Sch., Univ. Chicago, Chicago, Ill.
alertness-vigilance; attitudes; learning; children; psychometrics; eye movement; galvanic skin response

MH-03642 **PRELINGER, ERNST**, Yale Univ., New Haven, Conn.
character; ego; interpersonal behavior..small groups; values; attitudes; interviews; psychological tests; behavior rating scales

MH-03654 **LUBORSKY, LESTER**, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
dreams; imagery; subliminal; perception; memory-retention; attention; defense mechanisms; anxiety

MH-03684 **STUNKARD, ALBERT J.**, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
obesity; taste; threshold; hunger; feeding behavior; diurnal variation; body temperature; somesthesis; stomach motility; exercise; psychotherapy; motivation

MH-03857 **DITTES, JAMES E.**, Grad. Sch., Yale Univ., New Haven, Conn.
judgment; anxiety; self concept; dependency; stress; clergy; interpersonal behavior

MH-03859 **HILGARD, ERNEST R.**, Grad. Sch., Stanford Univ., Stanford, Cal.
experience; family..parents; hypnosis; interpersonal behavior; interviews; personality; psychological tests

MH-03860 **WIENER, MORTON**, Grad. Sch., Clark Univ., Worcester, Mass.
learning; awareness; perception; cues; judgment; imagery; identification; personality; mental processes

MH-03885 **GOODENOUGH, DONALD E.**, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
dreams; sleep; eye movement; stimulus; subliminal; expectancy; memory--retention

MH-03924 **MURPHY, GARDNER**, Minninger Fdn., Topeka, Kansas
motivation; learning; reinforcement; perception; cognition; arousal; attention; thinking; socioculture; cues

MH-03991 **MUSSEN, PAUL H.**, Univ. California, Berkeley, Cal.
family..child rearing; children..preschool; behavioral adjustment; behavioral rating scales; computer analysis

MH-04075 **EDWARDS, ALLEN L.**, Grad. Sch., Univ. Washington, Seattle, Wash.
MMPI; personality; social desirability; acquiescence; response

MH-04109 **GHENT, LILA**, Grad. Sch., George Washington Univ., Washington, D.C.
form perception; spatial perception; cues; children; sequential perception

MH-04221 **KOUNIN, JACOB S.**, Wayne State Univ., Detroit, Mich.
behavior; children; education..schools; emotional disturbance; learning; teaching

MH-04287 **POPE, BENJAMIN**, Sch. Med., Univ. Maryland, Baltimore, Md.
anxiety; interviews; psychiatrists; psychotherapy; verbal behavior

MH-04439 **HOFFMAN, PAUL J.**, Oregon Res. Inst., Eugene, Oregon
judgment; mathematical models; criteria; education.. medical education; learning; communication theory; computer diagnosis; prediction

MH-04460 **STEINER, IVAN D.**, Col. Lib. Arts, Sci., Univ. Illinois, Urbana, Ill.
personality; conflict; interpersonal behavior; psychological tests

MH-04465 **GLUECK, BERNARD C., Jr.**, Inst. Living, Hartford, Conn.
personality; semantics; language; psychiatrists; judgment; psychotherapy; interviews recording; psychologists

MH-04618 **FRANK, JEROME D.**, Johns Hopkins Univ., Baltimore, Md.
attitudes; behavioral adjustment; hospitals outpatients; interpersonal behavior; longitudinal study; personality; psychotherapy; therapy evaluation

MH-04685 **TOMKINS, SILVAN S.**, City Univ. New York, New York, N.Y.
emotional reactions; visual perception; facial expression; depression; anxiety; psychoses

MH-04907 **THOMAS, ALEXANDER**, New York Univ. Med. Cr., N.Y.C.
behavioral adjustment; ethnic groups..Puerto Rican; family ..child rearing; geographical sites..New York; infants (human); socioeconomics

MH-04944 **BAUGHMAN, E. EARL**, Grad. Sch., Univ. North Carolina, Chapel Hill, N.C.
child development; geographical sites..United States; personality; intelligence; psychometrics; longitudinal study; socioenvironment..rural areas; ethnic groups.. whites; ethnic groups..Negroes; psychological tests

MH-05031 **KRAUSE, MERTON S.**, Family Service, Cincinnati, Ohio
attitudes; motivation; psychotherapy; social service

MH-05115 **LOEVINGER, JANE**, Sch. Med., Washington Univ., St. Louis, Mo.
personality; psychometrics; ego; children

MH-05186 **ALBEE, GEORGE W.**, Western Reserve Univ., Cleveland, Ohio
adults; children; intelligence tests; longitudinal study; prediction; schizophrenia

MH-05224 **HEIDER, FRITZ**, Grad. Sch., Univ. Kansas, Lawrence, Kans.
cognition; interpersonal behavior; perception

MH-05292 **SAM, JOSEPH**, Sch. Pharm., Univ. Mississippi, University, Miss.
aporphine alkaloids; synthesis; psychotropic drugs

MH-05298 **CHANCE, JUNE E.**, Sch. Arts, Sci., Univ. Missouri, Columbia, Mo.
academic achievement; age; attitudes; children; family.. child rearing; family..parent-child; fantasy; motivation

MH-05300 **CLAUSEN, JOHN A.**, Univ. California, Berkeley, Cal.
adults; children..adolescence; intelligence; interpersonal behavior; interviews; longitudinal study; personality; psychometrics; socioenvironment; statistics

MH-05433 **CARROLL, EDWARD J.**, Craig House Children, Pittsburgh, Pa.
children; conflict; emotional disturbance; family; interpersonal behavior; interviews recording; perception

MH-05517 **GARDNER, RILEY W.**, Menninger Fdn., Topeka, Kansas
cognition; children; family..parents; psychometrics; defense mechanisms; intelligence; twins; age; personality

MH-05683 **FREUD, ANNA**, Hampstead Child Therapy Course and Clinic, Maresfield Gardens, London, England
child development; conflict; diagnostic tests; drive; genetics; longitudinal study; mental disorders; personality; psychoanalysis

MH-05753 **GOLDFARB, WILLIAM**, Henry Ittleson Cr., Bronx, N.Y.
longitudinal study; education; children; schizophrenia; therapy; academic achievement; family; speech; cognition; neuropsychological tests; interpersonal behavior; pregnancy..perinatal; mental health; communication; body movement; psychometrics; hearing; auditory feedback

MH-05761 **FISHER, SEYMOUR**, Med. Sch., New York State Univ., Syracuse, N.Y.
body image; psychometrics

MH-05814 **ESCALONA, SIBYLLE K.**, Col. Med., Yeshiva Univ., N.Y.C.
infants, human..newborn; autonomic reflexes; heart rate; behavior stress; arousal; soothing

MH-05977 **BUSS, ARNOLD H.**, Sch. Natural Sci., Univ. Pittsburgh, Pittsburgh, Pa.
experimental psychology; aggression; frustration; rewards and nonrewards; electrostimulus; sex difference

MH-06101 **BLOCK, WILLIAM E.**, Yeshiva Univ., N.Y.C.
Rorschach; psychometrics; interviews

MH-06137 **COHEN, JACOB**, Grad. Sch. Arts, Sci., New York Univ., New York, N.Y.
statistics; psychology; medical research; publications..handbook

MH-06167 **FARINA, AMERIGO**, Univ. Connecticut, Storrs, Conn.
psychiatric patients; schizophrenia; social adjustment; family..child rearing; attitudes; problem solving; interpersonal behavior; conflict

(contd)

LISTING OF GENERAL RESEARCH AREAS

MENTAL HEALTH (CONTD)

MH-06170 **GARMEZY, NORMAN,** Sch. Sci., Lit., Arts, Univ. Minnesota, Minneapolis, Minn.
schizophrenia; performance; habit; experience; interpersonal behavior; siblings; family; tranquilizers; children; emotional disturbance; social status; conditioning..avoidance

MH-06204 **TRIANDIS, LEIGH M.,** Sch. Arts, Sci., Univ. Illinois, Urbana, Ill.
aggression; anxiety; attitudes; children; drive; fantasy; personality; sex difference

MH-06238 **MACFARLANE, JEAN W.,** Univ. California, Berkeley, Cal.
personality; growth; psychometrics; family; values; expectancy; interpersonal behavior; social adjustment; longitudinal study

MH-06245 **CHAPPLE, ELIOT D.,** Rockland State Hosp., Orangeburg, N.Y.
psychiatric patients; schizophrenia; behavior; therapy evaluation; longitudinal study

MH-06288 **DENNIS, WAYNE,** Brooklyn Col., Brooklyn, N.Y.
behavior; child development; social organization.. institutional organization; socioenvironment; infant human

MH-06335 **GARDNER, GEORGE E.,** Judge Baker Guidance Cr., Boston, Mass.
symbolism; thinking; learning; children; perception; reading; neuroses; phobias; interpersonal behavior; psychotherapy

MH-06369 **PHILLIPS, LESLIE,** Grad. Sch., Clark Univ., Worcester, Mass.
behavioral adjustment; disease classification; maturity; mental disorders; psychiatric patients; role; Rorschach; therapy; thinking

MH-06626 **HUTTENLOCHER, JANELLEN,** Col. Arts, Sci., Harvard Univ., Cambridge, Mass.
age; children; concept; learning..sequential learning; problem solving

MH-06631 **EIDELBERG, LUDWIG,** Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
publications..dictionary; psychoanalysis

MH-06652 **MADDI, SALVATORE R.,** Sch. Social Sci., Univ. Chicago, Chicago, Ill.
behavior; exploratory behavior; fantasy; motivation; personality; psychometrics; thematic apperception test

MH-06664 **CORMAN, HARVEY H.,** Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
defense mechanisms; dreams; ego; hypnosis; imagery; subliminal; visual perception

MH-06671 **ARONFREED, JUSTIN,** Grad. Sch., Univ. Pennsylvania, Philadelphia, Pa.
affection; anxiety; children; cognition; identification; learning; reinforcement; rewards and nonrewards; social behavior

MH-06673 **ARKIN, ARTHUR M.,** Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
body movement; dreams; hypnosis; imagery; mental processes; sleep; speech

MH-06733 **HOLT, ROBERT R.,** Grad. Sch. Arts, Sci., New York Univ., New York, N.Y.
research programs; cognition; psychoanalysis; personality; Rorschach, consciousness; attention; LSD; sensory deprivation; creativity; dreams; drive; memory--retention; imagery

MH-06740 **GOODNOW, JACQUELINE J.,** Columbian Col., George Washington Univ., Washington, D.C.
child development; intelligence tests; mental age; performance; psychometrics

MH-06779 **GEWIRTZ, HAVA B.,** Inst. Behavioral Res., College Park, Md.
age; behavior; child development; family..child rearing; geographical sites..Israel; infants (human); learning; social behavior; socioenvironment

MH-06781 **BECKER, JOSEPH,** Grad. Sch., Univ. Illinois, Urbana, Illinois
anxiety; children; conflict; emotional disturbance; family..child rearing; family..parents; identification; interpersonal behavior

MH-06809 **ZIGLER, EDWARD F.,** Grad. Sch., Yale Univ., New Haven, Conn.
dependency; experience; mental retardation; motivation; performance; reinforcement; socioenvironment; success-failure

MH-06810 **KATCHADOURIAN, HERANT,** Sch. Med., American Univ., Beirut, Lebanon
schizophrenia; geographical sites..Lebanon; survey; socioculture; family; cognition; interpersonal behavior; personality; psychological tests; prediction; cooperative study

MH-06867 **MEDNICK, SARNOFF A.,** Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
schizophrenia; prediction; children; family..parents; longitudinal study; geographical sites..Denmark; arousal; psychophysiology; emotional reactions; stress; stimulus generalization; psychological tests; interpersonal behavior; preventive medicine

MH-07003 **BARBER, THEODORE X.,** Med Fdn. Inc., Medfield, Mass.
audiostimulus; autonomic reflexes; conditioning; hallucinations; heart rate; hunger; hypnosis; inflammation; injury; pain; psychophysiology

MH-07068 **BROWN, ROGER W.,** Harvard Univ., Cambridge, Mass.
child development; semantics..grammar; speech; mathematical models; learning

MH-07155 **SOLOMON, PHILIP,** Boston City Hosp., Boston, Mass.
amnesia; hypnosis; learning..association learning; memory--retention; psychometrics; Stanford scale of hypnotic susceptibility

MH-07162 **ZABARENKO, LUCY,** Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
education..medical education; psychiatry; criteria; learning; teaching; physicians; physician-patient relationship

MH-07195 **NORMAN, WARREN T.,** Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
personality; psychometrics; semantics..vocabulary

MH-07220 **SCHWARTZ, FRED,** Austen Riggs Cr., Stockbridge, Mass.
learning; perception; memory--retention; psychoanalysis; attention; psychological tests

MH-07226 **LEVIN, HARRY,** Col. Home Ec., Cornell Univ., Ithaca, N.Y.
cognition; perception; child development; behavior; number sense; semantics..language; environment; research programs; psychometrics

MH-07268 **BLOCH, DONALD A.,** Jewish Board of Guardians, New York, N.Y.
psychotherapy; emotional disturbance; children.. adolescence; socioenvironment; family..parent--child; interpersonal behavior; education

MH-07274 **ORR, DAVID B.,** American Inst. Res., Washington, D.C.
deviant behavior; criteria; psychological tests; education ..secondary education; education..student drop--outs; academic achievement; children; statistics; juvenile delinquency

MH-07291 **GELLERT, ELIZABETH,** Association for Aid of Crippled Children, N.Y.C.
body image; age; child development; adults; intelligence; spatial perception; sex difference

MH-07416 **GORDON, JESSE E.,** Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
adults; authority; cues; hypnosis; interpersonal behavior; motivation; prediction; psychometrics; role; Stanford scale of hypnotic susceptibility; thematic apperception test

MH-07465 **FEATHER, BEN W.,** Duke Univ., Durham, N.C.
conditioning; nervous system..autonomic nervous system; mental disorders

MH-07492 **BUCKLEW, JOHN,** Lawrence Col., Appleton, Wis.
personality; ego; neuroses; prediction; medical records; statistics

MH-07506 **FEFFER, MELVIN,** Grad. Sch., Yeshiva Univ., New York, N.Y.
psychiatric patients; role; interpersonal behavior; psychological tests

MH-07547 **VOTH, HAROLD M.,** Menninger Fdn., Topeka, Kansas
psychotherapy; autokinetic effect; ego; personality; hypnosis; prediction; self-organization

MH-07570 **HARDYCK, CURTIS D.,** Univ. California Med. Cr., San Francisco, Cal.
behavioral adjustment; body movement; emotional reactions; interviews; muscle tension; personality

MH-07571 **RAPPEPORT, JONAS R.,** Spring Grove State Hosp., Baltimore, Md.
psychiatric patients; hospitals release; behavioral adjustment; criminology; criteria; prediction; survey

MH-07587 **EKMAN, PAUL,** San Francisco State Col., San Francisco, Cal.
communication; behavior; emotional reactions; interviews recording; photography; body movement; facial expression; interpersonal behavior; criteria

MH-07615 **SAUL, LEON J.,** Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
publications..book; psychoanalysis; personality; psychiatry; family..child rearing; interviews recording

MH-07649 **CALDWELL, BETTYE M.,** Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
learning; cognition; infant human; child development; emotional reactions; socioenvironment; social status; family..parent--child; conditioning..operant conditioning; psychological tests; longitudinal study

MH-07683 **DEIKMAN, ARTHUR J.,** Austen Riggs Cr., Inc., Stockbridge, Mass.
cognition; creativity; hallucinations; imagery; longitudinal study; LSD; mental disorders; perception; perceptual desautomatization; psychotomimetic drugs

MH-07712 **HURWITZ, JACOB I.,** New York Univ. Med. Cr., New York, N.Y.
juvenile delinquency; socioenvironment..urban areas; classification; psychotherapy; family..child rearing; computer analysis

MH-07843 **KRON, REUBEN E.,** Hospital Univ. Pennsylvania, Philadelphia, Pa.
arousal; feeding; heart rate; infants (human)..newborn; instrumentation; nutrition; sucking behavior

MH-07887 **WENAR, CHARLES,** Hosp. of Univ. of Pennsylvania, Philadelphia, Pa.
child development; exploratory behavior; family..parent child; infants (human); interpersonal behavior; longitudinal study; personality

MH-07926 ZUCKERMAN, MARVIN, Albert Einstein Med. Cr., Philadelphia, Pa.
anxiety; galvanic skin response; hallucinations; heart rate; MMPI; personality; reinforcement; Rorschach; sensory deprivation; sensory mechanisms; sex difference

MH-07962 HOLZMAN, PHILIP S., Menninger Fdn., Topeka, Kans.
speech; emotional reactions; suppression; personality; psychophysiology; self-concept; hearing..auditory discrimination; psycholinguistics; electrophysiology; dreams; noise

MH-07987 CHAPMAN, LOREN J., Lib. Arts, Sci., Southern Illinois Univ., Carbondale, Ill.
adults; cognition; error-bias; experience; learning.. association; personality; psychological tests; superstition; symbolism

MH-07993 KLEIN, MALCOLM W., Youth Studies Cr., Univ. Southern California, Los Angeles, Cal.
children..adolescence; ethnic groups..Negroes; geographical sites..California; interpersonal behavior; juvenile delinquency..corner groups; role; sex difference; social organization; social status; socioenvironment..urban areas

MH-07994 ROSENBERG, BENJAMIN G., Bowling Green State Univ., Bowling Green, Ohio
children; family..parent-child; identification; interpersonal behavior; perception; psychological tests; role; sex difference; siblings

MH-08008 BROOKS, MELVIN S., Col. Liberal Arts, Sci., Southern Illinois Univ., Carbondale, Ill.
child development; family..child-rearing; family..parent-child; interviews; longitudinal study; mental health; social adjustment; stress

MH-08009 PATTERSON, GERALD R., Univ. Oregon, Eugene, Ore.
child development; conditioning..operant conditioning; discrimination; family..child-rearing; family..parent-child; learning; peer group; personality; psychological testing; sex difference; social adjustment; social behavior

MH-08018 RABINER, EDWIN L., The Grainick Fdn., Port Chester, N.Y.
physician-patient relationship; conflict; psychotherapy

MH-08020 REED, JAMES C., Wayne State Univ., Detroit, Mich.
children; cognition; concept; education..elementary education; form perception; intelligence tests; reading

MH-08049 KESSLER, JANE W., Western Reserve Univ., Cleveland, Ohio
audiostimulus; behavior; child development; cognition; conditioning..operant conditioning; deviant behavior; discrimination; infants (human); instrumentation; longitudinal study; mental retardation; perception; rewards and nonrewards; visual stimulus

MH-08050 KLEIN, EDWARD, Sch. Med., Yale Univ., New Haven, Conn.
computer analysis; concept; interpersonal behavior; memory-retention; motivation; performance; psychological tests; reaction time; schizophrenia; sex difference

MH-08051 KATZ, IRWIN, Grad. Sch. Arts, Sci., New York Univ., New York, N.Y.
motivation; academic achievement; performance; psychological tests; anxiety; success--failure; ethnic groups..Negroes; education..university students; geographical sites..United States; questionnaire

MH-08054 CHESS, STELLA, New York Med. Col., N.Y.C.
behavior; behavior rating scales; children; interviews; learning; mental retardation; play; prediction; social adjustment

MH-08062 NEUGARTEN, BERNICE L., Univ. Chicago, Chicago, Ill.
aging; social adjustment; sex difference; self--concept; attitude; role; career; family..marriage

MH-08065 SMITH, CHARLES P., Princeton Univ., Princeton, N.J.
motivation; child development; programmed learning; rewards and nonrewards; success-failure; anxiety; family.. parent-child; education..elementary education; interviews; thematic apperception test; identification

MH-08108 KAUFMAN, MELVIN E., Sch. Med., Univ. Wisconsin, Madison, Wis.
mental retardation; children; autism; social behavior; mental hospitals; family..parent--child; socioenvironment; isolation

MH-08124 CROWDER, THORA H., Liberal Arts Col., Univ. Mississippi, University, Miss.
age; aggression; children..preschool; interpersonal behavior; learning; response generalization; rewards and nonrewards; sex difference; social behavior

MH-08135 CLAUSEN, JOHN A., Univ. California, Berkeley, Cal.
growth; age; child development; infant human; adults; intelligence; behavior; social adjustment; psychometrics; biometry; longitudinal study; body build

MH-08142 LITTLE, KENNETH B., Grad. Col., Univ. Denver, Denver, Colo.
social space; interpersonal behavior; friendship; age; adults; children..adolescence; infants, human; psychometrics

MH-08158 COLLINS, MARY E., Postgraduate Cr., Psychotherapy, New York, N.Y.
adults; aging; attitudes; computer analysis; interpersonal behavior; mental disorders; personality; psychometrics; social desirability

MH-08160 RORER, LEONARD G., Oregon Research Inst., Eugene, Ore.
prediction; learning; judgment; decision--making; training; MMPI; computer analysis; psychologists

MH-08238 MAHLER, MARGARET S., Masters Children's Cr., New York, N.Y.
family..parent--child; symbiotic child psychosis; separation; child development; personality; longitudinal study; maternal behavior; interpersonal behavior

MH-08274 ZIMET, CARL N., Sch. Med., Univ. Colorado, Denver, Colo.
adults; character; dyadic interaction; interpersonal behavior; interviews; psychological tests

MH-08308 WALLERSTEIN, ROBERT S., Menninger Fdn., Topeka, Kans.
interviews; longitudinal study; mental disorders; psychological tests; psychotherapy; research programs; therapy evaluation

MH-08321 PERVIN, LAWRENCE A., Princeton Univ., Princeton, New Jersey
academic achievement; education..universities; education ..university students; expectancy; frustration; interviews; questionnaire; social adjustment; socioenvironment

MH-08364 SINGER, JEROME L., Col. Liberal Arts, Sci., The City Col., City Univ. New York, New York, N.Y.
imagery; cognition; behavior; electroencephalography; attention; drive; suppression, psychology; dreams

MH-08367 STECHLER, GERALD, Massachusetts Mem. Hosps., Boston, Mass.
attention; child development; emotional reactions; infants (human); interpersonal behavior; perception

MH-08382 THOMPSON, GEORGE G., Col. Educ., Ohio State Univ., Columbus, Ohio
age; children..adolescence; family..parentchild; interpersonal behavior; judgment; morals; peer group; psychometrics; sex difference; socioculture; values

MH-08405 MURSTEIN, BERNARD I., Connecticut Col., New London, Conn.
family..marriage; motivation; criteria; personality; socioenvironment; psychological tests

MH-08468 HUNT, J. McVICKER, Sch. Liberal Arts, Univ. Illinois, Urbana, Ill.
behavior rating scales; child development; education..audiovisual aids; experience; infants, human; intelligence; mental retardation; psychometrics; socioeconomics..low income groups

MH-08488 MILGRAM, NORMAN A., Grad. Sch. Arts, Sci., Catholic Univ. of America, Washington, D.C.
children..adolescence; cognition; learning..association learning; learning..mediation; mental retardation; psychometrics; semantics..language; visual stimulus

MH-08498 BLANK, MARION, Albert Einstein Col. Medicine, Yeshiva Univ., N.Y.C.
children..preschool; concept; cross modal transfer; cues; deafness; discrimination; perception; problem solving; rewards and nonrewards; sensory mechanisms

MH-08524 PIOTROWSKI, ZYGMUNT A., Sch. Psychiatry, Jefferson Med. Col., Philadelphia, Pa.
psychological tests; Rorschach; computer analysis; criteria

MH-08533 MARKS, PHILIP A., Kansas Univ. Med. Cr., Kansas City, Kans.
personality; children..adolescence; psychiatric patients; criteria; medical records; MMPI; survey; statistics

MH-08534 ZUBIN, JOSEPH, Res. Fdn. Mental Hygiene, Middletown, N.Y.
social adjustment; psychiatric patients; interviews; psychometrics; criteria; diagnostic tests; therapy evaluation; mental disorders; medical records

MH-08542 RICHMOND, JULIUS B., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
child development; experience; children..preschool; maternal behavior; attitudes; cognition; semantics.. language; communication; family..parent-child; interpersonal behavior; social adjustment; longitudinal study; exploratory behavior

MH-08563 DUNNETTE, MARVIN D., Col. Liberal Arts, Univ. Minnesota, Minneapolis, Minn.
empathy; interpersonal behavior; attitudes; motivation; employment..job satisfaction; employers; peer group; administrative personnel; questionnaire; psychometrics; criteria; computer analysis

MH-08564 JANIS, IRVING L., Grad. Sch., Yale Univ., New Haven, Conn.
habit; smoking; feeding behavior; group therapy; psychotherapy; emotional reactions; attitudes; frustration; role

MH-08565 SARBIN, THEODORE R., Col. Letters, Sci., Univ. California, Berkeley, Calif.
juvenile delinquency; children..adolescence; self-concept; psychometrics; psycholinguistics; socioenvironment; personality; travel; geographical sites..United States

MH-08569 NAHEMOW, LUCILLE, Res. Fdn. Mental Hygiene, Middletown, N.Y.
aging; attitudes; personality; socioenvironment; interviews; nursing homes; biometry

MH-08572 WEITMAN, MORRIS, Portland State College, Portland, Ore.
education..medical education; education..nursing education; judgment; memory-retention; nurses; physicians; problem solving; psychological tests

MH-08598 LONDON, PERRY, Univ. Southern California, Los Angeles, Cal.
age; children; family; hypnosis; imagery; interpersonal behavior; longitudinal study; personality; psychometrics; sex difference; social adjustment

LISTING OF GENERAL RESEARCH AREAS

MENTAL HEALTH (CONTD)

MH-08664 PSATHAS, GEORGE, Washington Univ., St. Louis, Mo.
computer analysis; interviews; physician-patient relationship; psychotherapy; therapy evaluation

MH-08676 SARBIN, THEODORE R., Col. Letters, Sci., Univ. California, Berkeley, Cal.
psychometrics; schizophrenia; juvenile delinquency; actors; behavior; self-concept; role; prediction; questionnaire; adults

MH-08687 HOROWITZ, MARDI J., Mt. Zion Hosp., Med. Cr., San Francisco, Cal.
imagery; dreams; deprivation; visual perception; subliminal; threshold; hallucinogens

MH-08709 SPIVACK, GEORGE, Devereux Fdn., Devon, Pa.
children; mental retardation; emotional disturbance; brain damage; schizophrenia; mental hospitals; behavior rating scales; statistics

MH-08744 RODNICK, ELIOT H., Grad. Sch., Univ. California, Los Angeles, Cal.
schizophrenia; children; coping mechanisms; behavioral adjustment; interpersonal behavior; family..parent-child; siblings; conflict; stress; role; authority

MH-08762 ALDOUS, JOAN, Col. Liberal Arts, Univ. Minnesota, Minneapolis, Minn.
creativity; children; family..parent--child; interpersonal behavior; personality; academic achievement; rewards and nonrewards; psychometrics; questionnaire

MH-08781 MATTSSON, NILS B., George Washington Univ., Washington, D.C.
statistics; psychiatric patients; computer analysis; psychometrics

MH-08791 GARDNER, D. BRUCE, Iowa State Univ., Ames, Iowa
children; learning; cross modal transfer; visual perception; hearing..auditory discrimination; form perception; time

MH-08792 KAGAN, JEROME, Harvard Univ., Cambridge, Mass.
infant human; children; behavior; child development; concept; thinking; performance; psychological tests; decision--making; sex difference; role; identification

MH-08800 SANDIFER, MYRON G., Jr., North Carolina Fdn. Mental Health Res., Raleigh, N.C.
interviews; behavior; cinematography; diagnostic tests; psychiatric patients

MH-08827 STEIN, JEAN F., Woods Sch. and Residential Treatment Cr., Langhorne, Pa.
mental retardation; children; mental age; learning; discrimination; conditioning..operant conditioning; intelligence; sensory mechanisms; form perception; spatial perception; optical illusions; visual perception

MH-08830 SARASON, IRWIN G., Grad. Sch., Univ. Washington, Seattle, Wash.
learning..association learning; performance; reinforcement; motivation; cues; anxiety; sex difference; children.. adolescence; adults; questionnaire

MH-08847 BLUM, GERALD S., Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
mental processes; hypnosis; learning; memory-retention; problem solving; perception; arousal; galvanic skin response; adults

MH-08853 SHAPIRO, DAVID, Harvard Med. Sch., Boston, Mass.
social behavior; success-failure; decision-making; leadership; psychophysiology; autonomic reflexes; heart rate; respiration; conditioning..operant conditioning; reinforcement; computer analysis; adults; galvanic skin response

MH-08855 NICHOLS, DARYL G., American Inst. Res., Los Angeles, Cal.
behavior; hospitals personnel; training; criteria; behavior rating scales; attitude; mental retardation; rehabilitation; psychiatric patients

MH-08913 BAUMEISTER, ALFRED A., Sch. Education, Central Michigan Univ., Mount Pleasant, Mich.
mental retardation; learning..association learning; memory--retention; reaction time; visual stimulus; audiostimulus; cues; conditioning..extinction; galvanic skin response

MH-08916 McCULLERS, JOHN C., San Jose State Col., San Jose, Cal.
learning; children; conflict; frustration; motivation

MH-08917 SIMON, SEYMORE, Col. Liberal Arts, Sci., Northern Illinois Univ., DeKalb, Ill.
learning..association learning; children; reinforcement; peer group; social desirability; personality; identity; psychological tests

MH-08980 ELDRED, STANLEY H., McLean Hosp., Belmont, Mass.
schizophrenia; psychiatric patients; mental hospitals; behavioral adjustment; interpersonal behavior; personality; social organization; mental health personnel; patient care; criteria; hospitals release; behavior rating scales; psychological tests; longitudinal study; medical records; computer analysis; questionnaire; coding

MH-08987 HUNT, J. McVICKER, Sch. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
behavior; anxiety; autonomic reflexes; personality; stimulus; response; psychometrics; computer analysis; mathematical models; adults

MH-10094 KOH, SOON D., Hastings State Hosp., Hastings, Minn.
emotional reactions; judgment; music; schizophrenia; psychometrics; time; error-bias

MH-10207 HALL, CALVIN, Inst. Dream Res., Inc., Miami, Fla.
dreams; memory-retention; sleep; arousal; personality; adults; psychological tests

MH-10225 HELLER, KENNETH, Col. Arts, Sci., Indiana Univ., Bloomington, Ind.
interpersonal behavior; psychotherapy; attitude; criteria; interviews; defense mechanisms

MH-10226 HUNT, J. McVICKER, Grad. Col., Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
intelligence; child development; infant human; experience; separation; socioenvironment; education.. audio--visual aids; intelligence tests; children.. adolescence; family..child rearing; vocalization; geographical sites..Iran

MH-10231 HAMLIN, ROY M., Grad. Sch., Univ. Illinois, Urbana, Ill.
psychoses; diagnostic tests; psychometrics; criteria; cognition; perception; behavior rating scales; statistics

MH-10233 ANASTASI, ANNE, Grad. Sch., Fordham Univ., Bronx, N.Y.
creativity; originality; children..adolescence; criteria; psychometrics; cognition

MH-10273 GORHAM, DONALD R., Veterans Administration Hosp., Perry Point, Md.
computer evaluation; computer programming; Holtzman inkblot test; personality; perception; criteria; verbal behavior; semantics..language

MH-10274 CATTELL, RAYMOND B., Grad. Sch., Univ. Illinois, Urbana, Ill.
motivation; personality; psychometrics; mathematical models; statistics; computer analysis; adults

MH-10275 CHARLESWORTH, WILLIAM R., Grad. Sch., Univ. Minnesota, Minneapolis, Minn.
cognition; child development; age; emotional reactions; verbal behavior; expectancy; reaction time

MH-10298 STORM, THOMAS F., Univ. British Columbia, Vancouver, B.C., Canada
phobias; fear; psychotherapy; desensitization therapy; muscle relaxation; autonomic reflexes; training; conditioning..extinction; therapy evaluation

MH-10328 DOHRENWEND, BRUCE P., Col. Phys., Surg., Columbia Univ., New York, N.Y.
mental disorders; epidemiology; judgment; psychiatrists; interviews; ethnic groups; geographical sites..New York; attitude; community; leadership

MH-10341 KOHN, MARTIN, William Alanson White Inst., New York, N.Y.
teaching; children..preschool; emotional disturbance; day center; education..nursery schools; psychoses; psychometrics; therapy evaluation

MH-10357 ALEXANDER, IRVING E., Sch. Arts, Sci., Duke Univ., Durham, N.C.
personality; judgment; thinking; performance; psychophysics; psychological tests

MH-10385 HAHN, WILLIAM W., Children's Asthma Res. Inst., Hosp., Denver, Colo.
asthma; children; psychophysiology; stress; problem solving; pulmonary function; potentials..membrane potentials; heart rate; muscle tension; electrophysiology

MH-10393 WEINSTEIN, SIDNEY, Albert Einstein Col. Med., Bronx, N.Y.
epilepsy; temporal lobe syndrome; lobectomy; mental disorders; therapy evaluation; intelligence; hearing..auditory discrimination; taste; touch; smell psychological tests; computer analysis

MH-10439 GERJUOY, HERBERT, Educational Testing Service, Princeton, N.J.
attitude; psychiatric aides; hospitals personnel; interpersonal behavior; psychiatric patients; behavior rating scales; questionnaire; psychometrics; prediction; manpower; patient care

MH-10466 GARDNER, GEORGE E., Judge Baker Guidance Cr., Boston, Mass.
schizophrenia; adults; longitudinal study; medical records; genetics; family; socioenvironment; experience; child development; sex difference; prediction; deviant behavior; depression; psychiatric patients; criteria

MH-10470 DRACHMAN, DAVID A., Northwestern Univ. Med. Sch., Chicago, Ill.
memory--retention; brain lesions; brain..hippocampus; amnesia; learning..association learning; learning..sequential learning; neuropsychological tests; touch; spatial perception

MH-10471 TOMLINSON, TOMMY M., Grad. Sch., Univ. California, Los Angeles, Cal.
judgment; perception; attitude; success--failure; psychotherapy; interpersonal behavior; experience; psychiatrists; error--bias; interviews recording; medical records; psychologists

MH-10485 PANDE, SHASHI K., Sch. Med., McGill Univ., Montreal, Canada
psychotherapy; physician--patient relationship; interpersonal behavior; dyadic interaction

MH-10560 CHOSY, JULIUS J., University Hosp., Madison, Wis.
psychophysiology; anxiety; syncope; depression; catecholamines; 17--hydroxycorticosteroids

MH-10588 BUDOFF, MILTON, Cambridge Mental Hlth. Assoc., Cambridge, Mass.
mental retardation; learning; motivation; children.. adolescence; game theory; psychometrics; interpersonal behavior; intelligence tests

MH-10598 REED, CHARLES F., Temple Univ., Philadelphia, Pa.
form perception; cognition; visual stimulus; children;

MH-10716 **GOTTFREDSON, DON M., Inst. Study Crime and Delinquency, Vacaville, Cal.**
criminology; prediction; behavior rating scales; statistics

MH-10717 **GOTTFREDSON, DON M., Inst. Study Crime and Delinquency, Vacaville, Cal.**
criminology; prediction; behavior rating scales; statistics; longitudinal study

MH-10720 **GOLDSTEIN, ARNOLD P., Syracuse Univ., Syracuse, N.Y.**
interpersonal behavior; therapy evaluation; psychotherapy; physician--patient relationship; expectancy; psychological tests

MH-10819 **ORR, DAVID B., American Inst. Res. in Behavioral Sci., Washington, D.C.**
education; mental retardation; children; reading; sensory mechanisms; vision; hearing; learning.. association learning; memory--retention

MH-10828 **REDING, GEORGE R., Sch. Med., Univ. Chicago, Chicago, Ill.**
psychophysiology; dentistry..bruxism; dreams; therapy evaluation; psychotherapy; barbiturates; tranquilizers; neuromuscular transmission; dental structure..teeth; epidemiology

MH-10886 **RABINER, EDWIN L., Bronx Municipal Hosp. Ctr., Bronx, N.Y.**
prediction; behavioral adjustment; psychiatric patients; criteria; judgment; mental health personnel; manpower; hospitals..psychiatric wards; computer analysis; hospitals release

MH-10897 **MYERS, BARTON, Brooklyn Col., Brooklyn, N.Y.**
memory--retention; brain lesions; brain mapping; brain..limbic system; hippocampectomy; parasympatholytic agents

MH-10898 **STEIN, MORRIS I., Grad. Sch. Arts, Sci., New York Univ., New York, N.Y.**
prediction; creativity; scientists; psychological tests; criteria; questionnaire; personality; self--concept; motivation; values; longitudinal study

MH-10899 **STEIN, MORRIS I., Grad. Sch. Arts, Sci., New York Univ., New York, N.Y.**
self--concept; questionnaire; education..university students; prediction; success--failure; attitude; social desirability; sex difference; computer analysis; psychometrics

MH-10900 **ZAMANSKY, HAROLD S., Col. Liberal Arts, Northeastern Univ., Boston, Mass.**
hypnosis; expectancy; performance; threshold; psychological tests; Stanford scale of hypnotic susceptibility; MMPI; rewards and nonrewards; anxiety; arousal; personality; motivation; visual perception

MH-10916 **LUND, S. TORSTEN, Sch. Educ., Univ. California, Berkeley, Cal.**
teaching; employment..job satisfaction; attitude; self--concept; experience; personality; socioenvironment; socioculture; questionnaire; psychometrics

MH-10919 **BEE, HELEN L., Clark Univ., Worcester, Mass.**
attention; performance; concentration; sex difference; age; experience; noise; motivation; adults; cognition; children

MH-10956 **SINGER, JEROME L., City Col., City Univ. New York, New York, N.Y.**
cognition; thinking; imagery; dreams; arousal; memory--retention; suppression; noise; hearing.. auditory discrimination; eye movements

MH-10957 **GILBERT, ALBIN R., West Virginia Wesleyan Col., Buckhannon, W.Va.**
psychological tests; personality; self--concept; social desirability; prediction; anxiety; emotional reactions

MH-10962 **VOTH, HAROLD M., Menninger Fdn., Topeka, Kans.**
psychosomatic medicine; thyroid function; thyrotoxicosis; stress; personality; radiolabeled iodine; psychological tests; longitudinal study

MH-10970 **McELWAIN, DONALD W., Grad. Sch., Univ. Queensland, St. Lucia, Brisbane, Queensland, Australia**
cognition; communication; psychometrics; learning; children; ethnic groups..Australia aborigines; ethnic groups..New Guinea Papuan; ethnic groups.. whites; migrants (sociological); socioculture; geographical sites..Australia; geographical sites..New Guinea

MH-10973 **FESHBACH, SEYMOUR, Univ. California, Los Angeles, Cal.**
aggression; anger; anxiety; emotional reactions; personality; social behavior; psychometrics; adults

MH-10974 **WYNNE, RONALD D., Queens Col. of City Univ. New York, Flushing, N.Y.**
behavior rating scales; attitude; psychiatric aides; mental hospitals; interpersonal behavior; patient care; psychometrics; criteria

MH-10975 **RAUSH, HAROLD L., Col. Lit. Sci., Arts, Univ. Michigan, Ann Arbor, Mich.**
communication; family..marriage; dyadic interaction; semantics..language; conflict; decision making; interviews recording; coding; interviews

MH-10993 **LANG, PETER J., Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.**
desensitization therapy; phobias; anxiety; therapy evaluation; hypnosis; conditioning; nervous system.. autonomic nervous system

MH-11039 **BALDWIN, ALFRED L., Grad. Sch., New York Univ., New York, N.Y.**
child development; perception; cognition; interpersonal behavior; social adjustment; judgement; interviews recording; computer

MH-11115 **QUERESHI, MOHAMMED Y., Col. Liberal Arts, Marquette Univ., Milwaukee, Wis.**
psychometrics; publications..monograph; intelligence tests; criteria; children; adults

MH-11116 **STRICKER, LAWRENCE J., Educational Testing Service, Princeton, N.J.**
personality; psychological tests; social desirability; anxiety

MH-11195 **GREEN, EDWARD J., Teacher's Col., Columbia Univ., New York, N.Y.**
mental retardation; children; programmed learning; visual stimulus; reinforcement; discrimination

MH-11215 **ALTROCCHI, JOHN, Duke Univ. Med. Ctr., Durham, N.C.**
interpersonal behavior; aggression; cognition; motivation; arousal; social desirability; behavior rating scales; psychological tests; sex difference; thematic apperception test; personality

MH-11227 **HEATH, DOUGLAS H., Haverford Col., Haverford, Pa.**
maturity; personality; education..universities; prediction; values; socioculture; self--concept; interviews recording; translations; travel; sex difference; psychological tests; geographical sites.. Italy

MH-11234 **SUCHMAN, ROSSLYN G., Gallaudet Col., Washington, D.C.**
learning; discrimination; visual perception; problem solving; color vision; conditioning.. operant conditioning; reinforcement; children; instrumentation--methodology

MH-11257 **NEURINGER, CHARLES, Col. Liberal Arts, Sci., Univ. Kansas, Lawrence, Kans.**
interpersonal behavior; self--concept; personality; social psychology; dyadic interaction; friendship; social desirability; frustration; threshold; psychological tests; conflict; adults

MH-11312 **LORR, MAURICE, Grad. Sch. Arts, Sci., Catholic Univ., Washington, D.C.**
psychoses; behavior rating scales; interviews; cooperative study; socioculture; statistics

MH-11316 **WILLNER, ALLEN, Menninger Fdn., Topeka, Kans.**
learning..association learning; psychiatric patients; schizophrenia; brain damage; concept; cognition; psychometrics; thinking

MH-11321 **HUNT, J. McVICKER, Grad. Col., Univ. Illinois, Urbana, Ill.**
publications..books; growth; experience; motivation; intelligence

MH-11323 **HETHERINGTON, EILEEN M., Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.**
juvenile delinquency; family..parents; family.. child rearing; interviews; questionnaire; conflict; rewards and nonrewards; peer group; self--organization; behavioral adjustment; sex difference; personality; children, adolescence

MH-11355 **FURTH, HANS G., Grad. Sch. Arts, Sci., Catholic Univ., Washington, D.C.**
conferences..international meetings; thinking; mental processes; semantics..language; symbolism; communication

MH-11768 **BAER, DONALD M., Grad. Sch., Univ. Kansas, Lawrence, Kan.**
motivation; children; socioenvironment; reinforcement; interpersonal behavior

MH-11867 **SPIRO, MELFORD E., Univ. Chicago, Chicago, Ill.**
anthropology; religion; social organization; family.. child rearing; personality; statistics

NB-00616 **BENTON, ARTHUR L., Sch. Med., State Univ. Iowa, Iowa City, Iowa**
behavior; brain damage; motivation; neuropsychological tests; psychometrics

NB-01468 **REITAN, RALPH M., Indiana Univ. Fdn., Bloomington, Indiana**
angiography; brain damage; brain lesions; diagnostic tests; electroencephalography; neuropsychological tests; pneumoencephalography

NB-03326 **ROSENBLITH, JUDY F., Brown Univ., Providence, R.I.**
infant human..newborn; age; neuropsychological tests;

NB-03887 **HARDY, WILLIAM G., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Maryland**
children..preschool; concept; perception; semantics.. language; verbal behavior

NB-03888 **MISIAK, HENRY K., Grad. Sch., Fordham Univ., New York, N.Y.**
vision tests..flicker fusion; instrumentation; screening; nervous system disorders; diagnostic tests

NB-04268 **LIPSITT, LEWIS P., Brown Univ., Providence, R.I.**
age; auditory threshold; conditioning; infants, human; learning; odors; psychometrics; threshold; touch

NB-05211 **REITAN, RALPH M., Indiana Univ. Med. Ctr., Indianapolis, Ind.**
brain, cerebral cortex; psychological tests; brain lesions; brain damage; brain disorders; behavior; age; prediction

NB-05291 **BLAKE, KATHRYN A., Col. Educ., Univ. Georgia, Athens, Ga.**
deafness; learning; communication; performance; age; sex difference; mental processes

NB-05359 **PARSONS, OSCAR A., Oklahoma Med. Res. Inst., Oklahoma City, Okla.**
brain damage; psychological tests; behavior; perception; criteria; age; sex difference; ethnic groups; emotional disturbance; schizophrenia

(contd)

MENTAL HEALTH (CONTD)

NB-05797 PARSONS, OSCAR A., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
brain damage; psychophysiology; galvanic skin response; emotional reactions; autonomic reflexes; schizophrenia; anxiety; psychological tests

NU-00068 SCHLOTFELDT, ROZELLA M., Sch. Nursing, Western Reserve Univ., Cleveland, Ohio
sensory deprivation; hospitals patients; behavior; nurses; patient care; psychometrics

MENTAL HEALTH PROGRAM-PROJECT COMMITTEE

MH-05077 EWLAT, JACK R., Massachusetts Mental Hlth. Cr., Boston, Mass.
clinical research centers; schizophrenia; psychotherapy; biochemistry; psychophysiology; psychopharmacology

MH-05154 DeMYER, MARIAN K., Indiana Univ. Med. Cr., Indianapolis, Ind.
research programs; children; schizophrenia; interpersonal behavior; nervous system; endocrine glands; family.. child rearing; socioenvironment; medical records; therapy; genetics; pregnancy..perinatal; dreams; learning

MH-05518 ANGELHARDT, DAVID M., State Univ. New York, Brooklyn, N.Y.
research programs; psychotherapy; monitoring; electronic recording; behavior; computer analysis; psychophysiology; education..medical education

MH-05519 GRINKER, ROY R., Sr., Michael Reese Hosp., Chicago, Ill.
ego; research programs; stress; psychometrics; psychosomatic medicine

MH-05655 BACON, SELDEN D., Rutgers State Univ., New Brunswick, N.J.
research programs; alcoholism; alcoholic beverages; therapy; documentation systems; information exchange; drinking behavior; community; training; social psychology; mental health personnel; psychophysiology; acetylation; ethanol; interpersonal behavior; mental processes; reaction time; brain; peer group; attitude

MH-07292 KLINE, NATHAN S., Rockland State Hosp., Orangeburg, N.Y.
research programs; mental disorders; longitudinal study; 17--ketosteroids; creatinine; psychotropic drugs; adrenal cortex hormones; pituitary hormones; thyroid function; radiolabeled iodine; phenothiazine; tryptophan; schizophrenia; behavior; psychometrics; brain; neuroendocrine systems; aging; cerebroarterial occlusions and thrombosis; chemotherapy; computer analysis; body build; screening; respiration; reflex; instrumentation--methodology

MH-07346 QUAY, HERBERT C., Univ. Illinois, Urbana,, Ill.
research programs; mental retardation; brain damage; emotional disturbance; children; medical facilities planning; survey; diagnostic tests; psychotherapy; education; rehabilitation; administration; longitudinal study; training; mental health personnel; psychophysiology; speech disorders; recreation; social worker

MH-07705 OSGOOD, CHARLES E., Grad. Sch., Univ. Illinois, Urbana, Ill.
communication; psycholinguistics; cognition; socioculture; psychometrics; research programs

MH-07742 GEBHARD, PAUL H., Indiana Univ., Bloomington, Ind.
sex behavior; computer analysis; documentation systems; survey

MH-08180 LEIGHTON, ALEXAMDER H., Col. Med., Cornell Univ., Ithaca, N.Y.
research programs; mental disorders; socioenvironment.. urban areas; socioenvironment..rural areas; longitudinal study; socioculture; conflict; social adjustment; interpersonal behavior; role; survey; sex difference; interviews; ethnic groups

MH-08609 GRUENBERG, ERNEST M., Col. Phys., Surg., Columbia Univ., New York, N.Y.
research programs; mental disorders; community; survey; interviews; information exchange; community service; longitudinal study; population dynamics, human; biometry; computer programming; hospital--community relations; mental hospitals; patient care; therapy evaluation

MH-08618 WORTIS, S BERNARD, Sch. Med., New York Univ., N.Y.C.
research programs; mental disorders; psychoses; schizophrenia; sympathomimetic agents; catecholamines; phenylethylamines; dopamine; metabolites; 3,4-dimethoxy-phenylethylamine; tritium; radiolabeled carbon; congenital abnormalities; children; dysautonomia familial; emotional reactions; vocalization; diagnostic tests; behavior rating scales; genetics; psychophysiology; psychotropic drugs; electroence phalography

MH-08667 DINGMAN, HARVEY F., Pacific State Hosp., Pomona, Cal.
research programs; mental retardation; behavioral adjustment; social behavior; epidemiology; hospital--community relations; hospitals release; medical records; mathematical models; computer analysis; instrumentation--methodology; rehabilitation; social organization..institutional organization

MH-10421 LOURIE, REGINALD S., Children's Hosp., Washington, D.C.
research programs; mental retardation; socioculture; deprivation; child development; infant human; psychomotor functions; personality; cognition; consultation

MH-10976 HAMBURG, DAVID A., Stanford Univ. Med. Cr., Palo Alto, Cal.
research programs; behavior; progesterone; adrenal cortex hormones; metabolites; brain.. hypothalamus; stress; pregnancy..postpartum; menstrual cycle; sex behavior; mental disorders; reaction sites; depression; anxiety; personality; dreams; intestinal absorption; estrus; amino acids; phosphates; acetates; fatty acids; pyrimidines; purines; tritium; radiolabeled carbon; anesthetics

MH-11349 STEIN, MARVIN, Col. Med., Cornell Univ., New York, N.Y.
research programs; psychophysiology; asthma; anaphylaxis; hypersensitivity; brain..hypothalamus; brain lesions; foreign proteins; immunology.. antigens; pulmonary ventilation; lung volume; respiration; heart rate; conditioning..avoidance; stress; separation; diurnal variation; adrenal cortex hormones; dreams; laboratory facilities; mental health personne ; manpower; consultation; patient care

MENTAL HEALTH PROJECT GRANTS REVIEW COMMITTEE

HD-01274 DONAHUE, WILMA, Grad. Sch., Univ. Michigan, Ann Arbor, Mich.
social adjustment; psychiatric patients; aging; community service; psychological tests; behavior rating scales; longitudinal study; mental health personnel; psychotherapy; mental hospitals; hospital-community relations

MH-01856 NELSON, WILLARD H., Sch. Arts, Sci., Florida State Univ., Tallahassee, Fla.
conferences; psychologists; education..schools; administrative personnel; children; academic achievement; mental health

MH-09109 LIPPITT, RONALD, Univ. Michigan, Ann Arbor, Mich.
juvenile delinquency; sex difference; values; interpersonal behavior; community service; social adjustment

MH-11284 KOPPENAAL, RICHARD J., Grad. Sch. Arts, Sci., New York Univ., New York, N.Y.
learning; memory--retention; habituation; amnesia; electroshock; deprivation; conditioning..extinction reinforcement; brain ischemia and hypoxia; instrumentation--methodology

OM-00012 DINGMAN, PAUL R., Des Moines Child Guidance Cr., Des Moines, Iowa
hospitals..day hospital; children; emotional disturbance; mental disorders; mental retardation; nervous system disorders; therapy

OM-00069 BLAU, DAVID, Boston State Hosp., Boston, Mass.
aging; patient care; hospitals admissions; hospitals release; mental hospitals; community; social adjustment; longitudinal study

OM-00089 WILNER, DANIEL M., Sch. Pub. Health, Univ. California, Los Angeles, Cal.
longitudinal study; criminology; rehabilitation; group counselling; behavioral adjustment

OM-00126 SANDERS, RICHARD, Philadelphia State Hosp., Philadelphia, Pa.
rehabilitation; psychiatric patients; social adjustment; community; criteria; longitudinal study

OM-00128 SHNEIDMAN, EDWIN S., Univ. Southern California, Los Angeles, Cal.
community; mental health; psychotherapy; social service; suicide prevention center

OM-00154 FRIEDMAN, ALFRED S., Philadelphia Psychiatric Cr., Philadelphia, Pa.
family therapy; schizophrenia; patient care..home care

OM-00175 REIFF, ROBERT, National Inst. Labor Education, Washington, D.C.
labor unions; mental health; education

OM-00188 STRINGER, LORENE A., St. Louis County Health Dept., Clayton, Mo.
children; social adjustment; emotional disturbance; education, elementary education; academic achievement

OM-00220 ITTELSON, WILLIAM H., Grad. Sch., Brooklyn Col., Brooklyn, N.Y.
mental hospitals; environment; behavioral adjustment; psychiatric patients; hospitals personnel; attitudes

OM-00244 RILEY, HARRIS D., Jr., Children's Mem. Hosp., Oklahoma City, Okla.
mental retardation; children; patient care; education.. special classes; education..nursery schools; diagnostic tests; therapy evaluation; training; perception

OM-00264 SHAPIRO, DAVID S., Bradley Center, Inc., Columbus, Ga.
mental health; community service; physicians; clergy; training; conferences..workshop; questionnaire

OM-00278 LEWIS, HYLAN, Health and Welfare Council of National Capital Area, Washington, D.C.
survey; family..child rearing; socioeconomics..low income groups; socioculture; community service; mental health

OM-00294 GORELICK, JACK, Assn. for Help Retarded Children, N.Y.C.
adults; community service; day center; family; mental retardation; occupational therapy; training

OM-00302 **HAZARD, GEOFFREY C., Jr., American Bar Fdn., Chicago, Ill.**
mental hospitals; forensic medicine; hospitals admissions; hospitals release; criminology

OM-00318 **PAGE, JAMES D., The Lighthouse Settlement, Philadelphia, Pa.**
academic achievement; aggression; children..adolescence; group work; juvenile delinquency; personality; psychological tests; social adjustment

OM-00330 **ROGERS, GERTRUDE A., Massachusetts Mental Health Res. Corp., Boston, Mass.**
children..adolescence; psychiatric patients; mental hospitals; hospitals..wards; socioenvironment; therapy; behavioral adjustment

OM-00351 **NEELY, JAMES H., Louisiana State Dept. Hospitals, Baton Rouge, La.**
hospitals outpatients; emotional disturbance; children; family..parents; education..schools; group therapy; community service

OM-00352 **RENO, JOHN C., Community Council, Houston, Tex.**
personnel administration; community service; manpower; consultation

OM-00380 **SCHUMACHER, HENRY C., Grad. Sch., Univ. Florida, Gainesville, Fla.**
student health service; education..universities; mental health; psychological tests; personality; emotional disturbance; community; consultation; epidemiology; stress; family; socioeconomics; socioculture

OM-00381 **ROMANO, JOHN, Sch. Med., Univ. Rochester, Rochester, New York**
longitudinal study; medical services; mental disorders; emotional disturbance; community; family; diagnostic tests; hospitals utilization; rehabilitation

OM-00392 **MASSARIK, FRED, Children's Home Society, Los Angeles, Cal.**
handicapped children; adoption; family..parent-child; social adjustment; criteria; prediction

OM-00395 **COLEMAN, JULES V., Community Council Gr. New Haven, New Haven, Conn.**
community service; cooperative study; family; hospital-community relations; patient care; psychiatric patients; public health nursing; rehabilitation

OM-00397 **PETERSON, MARTIN R., North Carolina Prison Dept., Raleigh, N.C.**
social service; criminology; rehabilitation

OM-00421 **ANDERSON, JOHN S., State Board Hlth., Helena, Mont.**
public health nursing; community service; family; mental disorders

OM-00426 **BECK, BERTRAM M., Mobilization for Youth, Inc., New York, N.Y.**
juvenile delinquency; preventive medicine; community service; socioeconomics..low income groups; social change; children..adolescence; family; social adjustment

OM-00434 **RISSER, PHILIP C., City-County Hlth. Dept., Great Falls, Mont.**
children; community service; consultation; emotional disturbance; family; Health Department; leadership; mental health; mental health personnel; training

OM-00458 **KAILEY, GEORGE R., Southeast Wyoming Mental Health Cr., Inc., Cheyenne, Wyo.**
socioenvironment..rural areas; mental health; community service; training; consultation; mental health personnel

OM-00488 **PEGG, FRED G., Forsyth County Hlth. Dept., Winston-Salem, N.C.**
community service; diagnostic tests; education; mental health; psychiatric patients; public health nursing; rehabilitation; therapy

OM-00503 **PLOTSKY, HAROLD, Group Health Assn., Inc., Washington, D.C.**
mental health; pregnancy; maternal--fetal; psychophysiology; counselling

OM-00510 **KRISBERG, JANE, Community Council Greater New Haven, New Haven, Conn.**
juvenile delinquency; family; group work; recreation; social service

OM-00513 **HOLLIS, FLORENCE, Sch. Social Work, Columbia Univ., New York City**
social service; psychotherapy; social psychology; classification

OM-00522 **GATES, PHILLIP H., James Jackson Putnam Children's Cr., Boston, Mass.**
behavioral adjustment; children..preschool; death; emotional reactions; family..parents; interviews; psychological tests

OM-00535 **BOWMAN, PAUL H., Greater Kansas City Mental Hlth. Fdn., Kansas City, Mo.**
education..elementary education; emotional disturbance; teaching; conferences..workshop; interpersonal behavior; geographical sites..United States; juvenile delinquency

OM-00588 **ROSS, ALAN O., Pittsburgh Child Guidance Cr., Pittsburgh, Pa.**
family..parents; emotional disturbance; psychotherapy; criteria; attitudes; behavioral adjustment; children

OM-00596 **BOEHM, BERNICE, Minnesota Dept. Pub. Welfare, St. Paul, Minn.**
family..child--rearing; social worker; criteria; criminology; community; attitudes

OM-00598 **WARREN, MARGUERITE Q., California Youth Authority, Sacramento, Cal.**
rehabilitation; juvenile delinquency; community; social adjustment

OM-00602 **BECK, DOROTHY F., Family Service Assn. America, N.Y.C.**
community service; cooperative study; family..marriage counseling; social service

OM-00607 **SAPIRSTEIN, MILTON R., Mt. Sinai Hosp., N.Y.C.**
industrial medicine; mental disorders; alcoholism; hospitals..psychiatric ward; therapy; hospitals outpatients

OM-00617 **YAHALOM, ITAMAR, Jewish Children's Bureau, Chicago, Ill.**
schizophrenia; children; family..parents; interpersonal behavior; psychotherapy; hospitals..day hospital; education

OM-00623 **LEVY, JEROME, Western Interstate Comm. Higher Education, Boulder, Colo.**
conferences; travel; training; hospitals personnel; mental hospitals; mental retardation

OM-00633 **LIDDLE, GORDON P., Quincy Youth Development Commission, Quincy, Ill.**
children; socioeconomics..low income groups; education..education..elementary education; education..curriculum; family..parents; academic achievement; social adjustment

OM-00638 **SCHMIDT, WILLIAM M., Sch. Pub. Hlth., Harvard Univ., Cambridge, Mass.**
family..parents; mental hospitals; children; community service; hospital-community relations; child care

OM-00644 **BENSBERG, GERARD J., Jr., Southern Regional Educ. Board, Atlanta, Ga.**
mental hospitals; patient care; mental retardation; hospitals personnel; training; conferences

OM-00657 **PITTMAN, DAVID J., Soc. Sci. Inst., Washington Univ., St. Louis, Mo.**
alcoholism; community service; hospitals patients; hospitals outpatients; hospitals personnel; attitudes; questionnaire; psychotherapy; statistics; therapy evaluation

OM-00662 **BORIS, HAROLD N., Goddard Col., Plainfield, Vermont**
consultation; teaching; education..schools; children; emotional disturbance; juvenile delinquency; education..universities; community service; mental health

OM-00672 **THURSTON, JOHN R., State Dept. Pub. Welfare, Madison, Wis.**
behavioral adjustment; children; age; sex difference; socioenvironment; interviews; family..parents; psychometrics; education..schools

OM-00674 **PORTER, HERCULES, Jewish Vocational Service, Milwaukee, Wis.**
juvenile delinquency; education..schools; community service; vocational guidance; group work; cooperative study

OM-00684 **BUCHMUELLER, ALFRED D., Child Study Assn. America, N.Y.C.** community service; group counselling; family..parents; education; survey

OM-00685 **FELDMAN, ALBERT G., Welfare Planning Council, Los Angeles, Cal.**
mental health; community service; information exchange

OM-00691 **ZUBIN, JOSEPH, New York State Dept. Mental Hygiene, New York, N.Y.**
survey; mental hospitals; hospitals patients; biometry

OM-00701 **McCABE, ALICE R., Community Service Society, N.Y.C.**
community service; children; family..parents; socioeconomics..low income groups; group therapy; academic achievement; social adjustment; intelligence tests

OM-00718 **ADAMS, STUART N., Los Angeles Co. Probation Dept., Los Angeles, Cal.**
juvenile delinquency; research programs; psychiatry

OM-00721 **ELLINGSTON, JOHN R., Univ. Minnesota, Minneapolis, Minn.**
court personnel; training; juvenile delinquency; child development; mental health; conferences..workshop

OM-00722 **ELLINGTON, JOHN R., Univ. Minnesota, Minneapolis, Minn.**
court personnel; training; juvenile delinquency; child development; mental health; education..schools; conferences..workshop; police; cultural deprivation

OM-00728 **PREBLE, EDWARD, New York Sch. Psychiatry, N.Y.C.**
diacetylmorphine; drugs addiction; geographical sites..New York; interpersonal behavior; juvenile delinquency..corner groups; longitudinal study; socioculture

OM-00745 **MINUCHIN, SALVADOR, Wiltwyck Sch. for Boys, Inc., N.Y.C.**
family..parent-child; child development; mental health; group therapy

OM-00761 **MICHAELS, JOSEPH, Inst. Retarded Children of The Shield of David, Bronx, N.Y.**
mental retardation; children..preschool; family therapy; training; mental health personnel; diagnostic tests; publications..handbook

OM-00763 **ROCKMORE, MYRON J., Dept. Mental Health, Hartfold, Conn.**
mental hospitals; social service; psychiatric patients; community; social adjustment

OM-00764 **KRAUSE, MERTON S., Family Service Cincinnati Area, Cincinnati, Ohio**
alcoholism; family; preventive medicine; social service; therapy evaluation

(contd)

LISTING OF GENERAL RESEARCH AREAS

MENTAL HEALTH PROJECT GRANTS REVIEW COMMITTEE (CONTD)

OM-00765 KLAUS, RUPERT A., Murfreesboro City Schools, Murfreesboro, Tenn.
children..preschool; socioeconomics..low income groups; experience; education..elementary education; social adjustment; motivation; academic achievement; family.. parents

OM-00768 JASO, HECTOR, Providence Child Guidance Clinic, Providence, R.I.
juvenile delinquency; mental health; family; community service; courts; social adjustment; cooperative study

OM-00770 FELDMAN, PAUL, Menninger Fdn., Topeka, Kans.
consultation; criteria; psychiatric aids; psychiatric patients; role; therapy; training

OM-00788 CULLIMORE, LLOYD L., Utah County Assn. Mental Hlth., Provo, Utah
halfway house; social adjustment; hospital-community relations; interpersonal behavior; computer; psychiatric patients; rehabilitation

OM-00793 PERLMUTTER, FELICE, Human Relations Commission, Champaign, Ill.
social organization; children..adolescence; ethnic groups.. race; religion; socioeconomics; attitudes; leadership; behavior

OM-00806 FOX, WALTER, Central Hosp., Anchorage, Ky.
mental hospitals; social service; group therapy; social adjustment; psychiatric patients

OM-00808 GEIS, GILBERT L., Inst. for Study of Crime and Delinquency, Sacramento, Cal.
halfway house; drugs addiction; rehabilitation; criminology; community; attitudes; personality; research programs

OM-00811 GARDNER, GEORGE E., Judge Baker Guidance Cr., Boston, Mass.
education; family; group work; juvenile delinquency; mental health personnel; psychotherapy; social service; training; vocational guidance

OM-00813 WHEATLEY, SPENCER B., Children's Home Finding and Aid Society, Lewiston, Idaho
community service; foster homes; juvenile delinquency; rehabilitation; social worker; socioenvironment..rural areas

OM-00818 TANAKA, HENRY T., Mental Hlth. Rehabilitation and Res., Inc., Cleveland, Ohio
psychiatric patients; patient care..post-hospitalization; social adjustment; family; role; social service; recreation; longitudinal study; group therapy

OM-00820 DEUTSCH, MARTIN, New York Med. College, N.Y.C.
academic achievement; attention; children; cognition; education..curriculum; learning; motivation; perception; socioeconomics..low income groups; verbal behavior

OM-00823 GOTTFREDSON, DON M., Inst. for Study Crime and Delinquency, Sacramento, Cal.
criminology; social organization; therapy evaluation; statistics

OM-00830 CLARK, KENNETH B., Northside Cr. Child Development, N.Y.C.
behavioral adjustment; children; education..elementary education; emotional disturbance; group therapy; siblings; social service

OM-00837 BANK, DENA C., Friendship Cr., Columbia, S.C.
community service; patient care..post-hospitalization; psychiatric patients; public opinion; recreation; social adjustment

OM-00843 GREENE, JOEL E., New Mexico Highlands Univ., Las Vegas, N.Mex.
emotional disturbance; children; ethnic groups..American Indians; education..schools; deviant behavior; behavioral adjustment; psychological tests; interviews; geographical sites..New Mexico

OM-00868 BRENNAN, JAMES J., Sch. Police Admin., Pub. Safety, Michigan State Univ., East Lansing, Mich.
juvenile delinquency; police; training

OM-00869 YOUNG, ELLIOTT G., Comeback, Inc., New York, N.Y.
drugs addiction; rehabilitation; consultation; psychiatric patients; recreation; community service

OM-00880 ELMER, ELIZABETH, Children's Hospital, Pittsburgh, Penna.
children; injury; trauma; family; growth; intelligence; social adjustment; social psychology

OM-00881 SHIREMAN, CHARLES H., Univ. Chicago, Chicago, Ill.
criminology; motivation; social adjustment; social service

OM-00882 IKEDA, TSUGUO, Seattle Atlantic Street Cr., Seattle, Wash.
children..adolescence; social adjustment; social service; group therapy; psychometrics; aggression; juvenile delinquency

OM-00886 BERGER, DAVID G., Oregon State Board Control, Salem, Ore.
mental hospitals; geographical sites..Oregon; research potential; administrative personnel; medical research

OM-00888 HYPPS, IRENE C., Washington Sch., Psychiatry, Washington, D.C.
juvenile delinquency; education..schools; administrative personnel; psychiatrists; conferences..workshop

OM-00889 GRAETZ, ROBERT E., Camarillo State Hosp., Camarillo, Cal.
mental hospitals; computer; documentation systems; medical records; patient care; hospitals administration; education..medical education; medical research; statistics

OM-00892 REISER, DAVID E., James Jackson Putnam Children's Cr., Boston, Mass.
attitudes; child development; children..preschool; deviant behavior; family..parent-child; interviews; longitudinal study; personality

OM-00893 GRIESHEIMER, JEAN B., Worcester Children's Friend Soc., Worcester, Mass.
emotional disturbance; children; psychotherapy; foster homes; patient care; rehabilitation; longitudinal study; training

OM-00894 PITTENGER, ROBERT E., George Junior Republic, Freeville, N.Y.
social organization..institutional organization; socioenvironment; children..adolescence; emotional disturbance; social psychology; social adjustment; behavioral adjustment; community; survey; isolation

OM-00898 LUBACH, JOHN, Northern State Hosp., Sedro Woolley, Wash.
psychotherapy; hospitals planning; rehabilitation; psychiatric patients; hospital-community relations; hospitals..emergency rooms; longitudinal study; travel

OM-00900 VISOTSKY, HAROLD M., Chicago Board of Health, Chicago, Ill.
community service; children..adolescence; pregnancy; illegitimacy; education..special classes; day center; psychotherapy; longitudinal study; social adjustment

OM-00904 ELIAS, ALBERT, New Jersey Reformatory, Bordentown, N.J.
rehabilitation; community service; criminology

OM-00917 WIENER, LOUISE L., East Bay Activity Cr., Oakland, Cal.
autism; children; group therapy; verbal behavior; interpersonal behavior

OM-00918 SLAWSON, ROBERT M., Stamford Community Council, Stamford, Conn.
drugs addiction; community service; rehabilitation; education; public opinion

OM-00920 SMITH, COLIN M., Univ. Saskatchewan, Saskatoon, Saskatchewan, Canada
patient care..home care; psychiatric patients; community service; family

OM-00929 HOBBS, NICHOLAS, George Peabody Col., Nashville, Tenn.
education..schools; emotional disturbance; children; teaching; communication; mental health personnel; manpower; behavioral adjustment

OM-00931 BINNER, PAUL R., Fort Logan Mental Hlth. Cr., Ft. Logan, Colo.
documentation systems; medical records; psychiatric patients; electronic recording

OM-00934 TARWATER, J.S., Alabama State Hosp., Tuscaloosa, Ala.
computer analysis; mental disorders; mental hospitals; prediction; statistics; therapy

OM-00937 MAGNER, GEORGE, National Assn. Social Workers, N.Y.C.
conferences..workshop; education; hospitals personnel; mental health; psychiatry; social worker

OM-00938 PELOSI, JOHN J., Dept. Social Welfare, Providence, R.I.
adminstration; education..medical education; mental hospitals; psychiatry; research potential; training

OM-00940 PAYNE, MARION F., Arkansas State Hosp., Little Rock, Ark.
community service; hospital-community relations; psychiatric patients; patient care..post-hospitalization; social integration; family; education; mental health

OM-00947 BROWN, RACINE D., South Carolina Mental Hlth. Commission, Columbia, S.C.
stress; social adjustment; children..preschool; education.. elementary education; socioenvironment; mental health; academic achievement

OM-00951 MATTISON, BERWYN F., American Pub. Hlth. Assn., N.Y.C.
alcoholism; publications..handbook; public health; community service; training

OM-00952 ROSS, ROBERT T., California State Dept. Mental Hygiene, Sacramento, Cal.
medical records; mental hospitals; geographical sites.. United States; survey; publications..history of medicine

OM-00954 BRICKMAN, HARRY R., Los Angeles Co. Mental Health Dept., Los Angeles, Cal.
mental health; community service; administration; criteria

OM-00958 WINDHAM, GERALD O., Mississippi State Univ., State College, Miss.
community; survey; attitude; alcoholism; education

OM-00963 SMITH, DORIS, Contra Costa Council of Community Services, Walnut Creek, Cal.
motivation; attitudes; academic achievement; training; social adjustment; education..secondary education; children..adolescence; ethnic groups..Negroes; longitudinal study; community service; decision--making

OM-00967 KRUSH, THADDEUS P., State Univ. South Dakota, Vermillion S.D.
longitudinal study; epidemiology; mental disorders; consultation; education..schools; diagnostic tests; therapy; ethnic groups..American Indians; children

OM-00968 KRUSH, THADDEUS P., Col. Med., Univ. Nebraska, Lincoln, Nebr.
community service; mental health; mental health personnel; consultation; clergy; volunteers; occupational therapy; child development; social psychology; vocational guidance; court personnel; education

OM-00970 **WILSON, ALAN B., Sch. Letters, Sci., Univ. California, Berkeley, Cal.**
motivation; attitude; academic achievement; education..secondary education; ethnic groups..Negroes; training; employment; community; children..adolescence; longitudinal study; social adjustment; social integration

OM-00976 **McKEE, JOHN M., State Board of Corrections, Montgomery, Ala.**
teaching machine; instrumentation; juvenile delinquency; education..curriculum; criteria; rehabilitation; criminology; programmed learning

OM-00977 **FUNKE, ARTHUR S., Minnesota Dept. Public Welfare, St. Paul, Minn.**
mental health; mental hospitals; community; problem solving; criteria; mental disorders; social adjustment; public health

OM-00981 **BOYLE, TERRENCE J., Ohio Dept. Hlth., Columbus, Ohio**
alcoholism; community service; Health Department; rehabilitation; volunteers

OM-00982 **DRATMAN, MITCHELL L., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
music therapy; children; psychoses; emotional reactions; behavioral adjustment

OM-00988 **GOOLISHIAN, HAROLD A., Univ. Texas Med. Br., Galveston, Tex.**
children..adolescence; family..parent-child; family therapy; juvenile delinquency; longitudinal study; psychometrics; social status; socioenvironment..urban areas

OM-00990 **SCHWARTZ, ARTHUR L., Assn. for Help of Retarded Children, New York, N.Y.**
mental retardation; community service; recreation; training; social adjustment; group work

OM-00992 **GOODMAN, GERALD M., University Y.M.C.A., Berkeley, Cal.**
children; cooperative study; dyadic interaction; education ..university students; emotional disturbance; empathy; interpersonal behavior; social adjustment

OM-00998 **SKOLER, DANIEL L., Natl. Council Juvenile Court Judges, American Bar Cr., Chicago, Ill.**
training; court personnel; juvenile delinquency; family; children, adolescence; conferences, workshop

OM-01010 **WOOLMAN, MYRON, Inst. Educational Research, Washington, D.C.**
programmed learning; reading; mental retardation; children; criteria; education..schools; instrumentation--methodology

OM-01018 **LURIE, ABRAHAM, Hillside Hosp., Long Island, N.Y.**
community service; day center; patient care..post-hospitalization; psychiatric patients; rehabilitation; social integration

OM-01019 **MITCHELL, WILLIAM E., Hope Fdn., Inc., Montpelier, Vt.**
volunteers; children; emotional disturbance; psychotherapy; socioeconomics..low income groups; socioenvironment..rural areas

OM-01026 **BACKLAR, SAMUEL S., 585 West End Ave., N.Y.C.**
psychiatric patients; forensic medicine; property, economic; administration

OM-01028 **REEVES, P.G., Jr., South Carolina Mental Health Comm., Columbia, S.C.**
mental hospitals; psychiatric patients; documentation systems; socioeconomics; socioculture

OM-01030 **McCAFFREY, ISABEL, Mental Hygiene Research Unit, Syracuse, N.Y.**
mental health; education..elementary education; children; emotional disturbance; academic achievement; peer group; family; socioenvironment; longitudinal study

OM-01033 **VELASCO, PROVIDENCE C., Board Pub. Instruction Hillsborough County, Tampa, Fla.**
deviant behavior; academic achievement; education elementary education; children; mental health; social service; social worker; psychological tests

OM-01036 **ROOT, ARTHUR, Altro Health and Rehabilitation Services, N.Y.C.**
adults; children..adolescence; community service; day center; mental hospitals; psychiatric patients; rehabilitation

OM-01038 **ALLEN, RICHARD C., George Washington Univ., Washington, D.C.**
mental disorders; mental hospitals; forensic medicine

OM-01044 **KASS, WALTER, Jewish Guild for the Blind, New York, N.Y.**
children; blindness; emotional disturbance; mental retardation; diagnostic tests; therapy; vocational guidance; education..schools; community service; family; brain damage; handicapped children

OM-1045 **CAREK, DONALD J., Univ. Michigan, Ann Arbor, Mich.**
day center; emotional disturbance; children; community service; psychotherapy; interpersonal behavior; occupational therapy; social service

OM-01046 **FRIEDMAN, IRA, Cleveland Psychiatric Inst., Cleveland, Ohio**
mental hospitals; patient care; decision--making; criteria; training; mental health personnel; longitudinal study

OM-01049 **DEANE, WILLIAM N., Univ. Vermont, Burlington, Vt.**
group work; mental hospitals; psychiatric patients; social adjustment

OM-01052 **STEHMAN, V.A., Dept. Mental Health, Lansing, Mich. and JASLOW, ROBERT I., Plymouth State Home and Training Sch., Northville, Mich.**
mental retardation; mental hospitals; family..parent--child; interviews; socioeconomics; decision--making; socio-environment; group counselling

OM-01054 **KOCH, RICHARD, Childrens Hosp. Los Angeles, Los Angeles, Cal.**
children; family; geographical sites..California; mental retardation; phenylketonuria; preventive medicine; survey

OM-01055 **KONOPKA, GISELA, Sch. Social Work, Univ. Minnesota, Minneapolis, Minn.**
children..adolescence; emotional disturbance; juvenile delinquency; interviews recording; community service; group work; conflict

OM-01060 **FOLEY, MATTHEW F., Catholic Charities, Brooklyn, N.Y.**
community service; emotional disturbance; ethnic groups.. Puerto Rican; geographical sites..New York; social adjustment; social organization; social service

OM-01062 **LORETAN, JOSEPH G., Board of Education, Brooklyn, N.Y.**
education..student drop-outs; education..secondary education; education..curriculum; education..special classes; research programs; family..parent-child; interviews; group counselling; self-concept; academic achievement; employment; community service; career

OM-01063 **HITCHMAN, IRENE L., Spring Grove State Hosp., Catonsville, Maryland**
patient care; foster homes; psychiatric patients; hospitals outpatients

OM-01064 **BOONIN, NATHANIEL N., Child Guidance Cr. Mercer County, Trenton, N.J.**
diabetes; children; emotional reactions; social adjustment; family..parent--child; interviews; longitudinal study

OM-01068 **DUFFY, ELEANOR P., Visiting Nurse Assn., Eastern Union County, Elizabeth, N.J.**
mental health; public health nurses; consultation; patient care

OM-01070 **MAGOON, THOMAS M., Grad. Sch., Univ. Maryland, College Park, Md.**
mental health; mental health personnel; training; role; psychotherapy; community

OM-01072 **BAIN, MARY D., Greater Lawrence Guidance Cr., Lawrence, Kans.**
family..child rearing; emotional disturbance; child development; community services; psychotherapy; time; diagnostic tests; emotional crisis; coping mechanisms

OM-01075 **FARRIS, BUFORD E., Jr., Wesley Community Centers, San Antonio, Tex.**
juvenile delinquency..corner groups; ethnic groups.. Mexican-Americans; socioeconomics..low income groups; socioenvironment..urban areas; conflict; behavior; social service

OM-01076 **ELDRED, DONALD M., Vermont State Hosp., Waterbury, Vt.**
programmed learning; education..elementary education; education..secondary education; children; emotional disturbance; behavioral adjustment; academic achievement; motivation

OM-01081 **GUYLER, CATHRYN S., Council Social Work Education, N.Y.C.**
social worker; manpower; community; conferences.. workshop

OM-01082 **RAFFERTY, FRANK T., Sch. Med., Univ. Maryland, Baltimore, Md.**
psychiatry; family therapy; education..nursing education; family..parent--child; emotional disturbance; patient care..home care

OM-01086 **HICKS, MARTHA B., Florida State Board Hlth., Jacksonville, Fla.**
mental health personnel; nurses; geographical sites.. Florida; training; psychiatric aides

OM-01089 **BISSELL, DWIGHT M., City San Jose Hlth. Dept., San Jose, Cal.**
emotional reactions; employment; police; stress; success-failure

OM-01092 **OTTENSTEIN, DONALD, South Shore Mental Health Assn., Quincy, Mass.**
community service; psychiatric patients; patient care.. post-hospitalization; nurses; communication; social adjustment; family; social service; employment; psychotherapy

OM-01098 **DEUTSCH, MARTIN, New York Med. Col., N.Y.C.**
children; verbal behavior; concept; cognition; academic achievement; reading; socioeconomics; ethnic groups; age; psychometrics

OM-01122 **TINE, SEBASTIAN, Senior Citizens, Inc., Nashville, Tenn.**
aging; community service; employment; learning; criteria; education..retirement and pre--retirement education

OM-01127 **SCHIEFELBUSCH, RICHARD L., Grad. Sch., Univ. Kansas, Lawrence, Kans.**
mental retardation; communicative disorders; research programs; training; information exchange; conferences.. workshop; therapy evaluation; children

OM-01132 **ZWERLING, ISRAEL, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.**
family; community; interpersonal behavior..small groups; mental health; mental disorders; medical services; day hospital; sheltered employment; training; mental health personnel; consultation; education; preventive medicine

OM-01134 **SOUTHARD, CURTIS, Montgomery County Health Dept., Mental Health Cr., Silver Spring, Md.**
community service; psychiatric patients; hospitals out-patients; hospitals patients; hospitals..day hospital; information exchange; consultation

(contd)

MENTAL HEALTH PROJECT GRANTS REVIEW COMMITTEE (CONTD)

OM-01139 **EDDY, MAX, Purdue Research Fdn., Lafayette, Indiana**
mental retardation; children..adolescence; education.. secondary education; training; prediction; success-failure; criteria; employment

OM-01151 **ABRAMS, ARNOLD, Roosevelt Univ., Chicago, Ill.**
mental health; group medical practice; psychotherapy; training; medical personnel; education; labor unions; research programs

OM-01157 **OSNOS, ROBERT J.B., Greenwich House Counseling Cr., N.Y.C.**
geographical sites..New York; community services; drugs addiction; therapy; preventive medicine; children..adolescence; adults; criteria; cooperative study

OM-01167 **COHEN, FELIX, Westborough State Hospital, Westborough, Mass.**
community service; psychiatric patients; hospitals.. day hospital; hospitals outpatients; psychotherapy; rehabilitation; longitudinal study; cost; hospitals utilization

OM-01169 **MICHELSON, JOSEPH P., The Jewish Hosp., Brooklyn, N.Y.**
mental health; psychophysiology; emotional disturbance; children..adolescence; hospitals outpatients; physicians; psychiatrists; consultation; family therapy; group counselling

OM-01171 **MELICAN, THOMAS P., Catholic Soc. Services Wayne Co., Detroit, Mich.**
foster homes; child care; social service; emotional distrubance; social adjustment; social worker

OM-01174 **OPPENHEIMER, SONYA, Mental Development Cr., Western Reserve Univ., Cleveland, Ohio**
mental retardation; child development; children..preschool; diagnostic tests; medical records; longitudinal study

OM-01175 **HUESSY, HANS R., Col. Med., Univ. Vermont, Burlington, Vt.**
patient care..post--hospitalization; psychiatric patients; physicians; consultation; psychiatry; education..medical education; longitudinal study

OM-01178 **CLOWARD, RICHARD A., Sch. Soc. Work, Columbia Univ., New York, N.Y.**
research programs; juvenile delinquency; criteria; socioculture; social integration; rehabilitation; survey; politics; training; social worker

OM-01182 **LOEB, MARTIN B., Sch. Social Work, Univ. Wisconsin, Madison, Wis.**
mental hospitals; hospitals administration; community service; patient care; public opinion; geographical sites..Wisconsin

OM-01185 **STONE, NELLIE D., New Jersey Assn., Retarded Children, East Organge, N.J.**
mongolism; family; social adjustment; interpersonal behavior; attitudes; community service

OM-01186 **TAYLOR, CHARLES E., Mem. Hosp., North Conway, N.H.**
alcoholism; socioenvironment..rural areas; rehabilitation; hospitals; consultation; psychiatrists; longitudinal study

OM-01193 **WEIGERT, EDITH, Washington Sch. Psychiatry, Washington, D.C.**
psychoanalysis; pregnancy; attitude; emotional disturbance; identity; role; family..marriage; interviews

OM-01201 **SILBERSTEIN, RICHARD M., Staten Island Mental Health Society, Staten Island, N.Y.**
psychotherapy; enuresis; children; therapy evaluation; behavioral adjustment; longitudinal study; conditioning

OM-01204 **MOTT, THURMAN, Jr., Spring Grove State Hosp., Catonsville, Md.**
psychotherapy; children..adolescence; emotional disturbance; hospitals..wards; mental hospitals; rehabilitation; group therapy

OM-01205 **SCHOPLER, ERIC, Univ. North Carolina, Chapel Hill, N.C.**
autism; education..elementary education; children; teaching; psychometrics; education..curriculum; psychotherapy; learning

OM-01206 **SPEERS, REX W., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
children..preschool; group therapy; family..parents; social adjustment; autism; ego; identity

OM-01214 **McCOY, EARL, Auraria Community Cr., Denver, Colo.**
socioenvironment..urban areas; community service; attitudes; social psychology; mental health; socioeconomics ..low income groups

OM-01218 **WISEMAN, FREDERICK, Brandeis Univ., Waltham, Mass.**
mental disorders; deviant behavior; criminology; court personnel; mental health personnel; interviews; classification

OM-01222 **SEXTON, PATRICIA CAYO, Sch. Education, New York Univ., N.Y.C.**
behavioral adjustment; education..elementary education; values; authority; conflict; sex difference; success-failure; socioeconomics..low income groups; socioenvironment..urban areas; deviant behavior; ethnic groups

OM-01225 **PENNINGROTH, PAUL W., Southern Regional Educ. Board, Atlanta, Ga.**
mental health; community services; patient care.. posthospitalization; conferences; travel

OM-01227 **DOBROF, ROSE, Hebrew Home for Aged, Bronx, N.Y.**
occupational therapy; group work; attitude; social adjustment; aging; nursing homes; administration; rehabilitation

OM-01229 **KAUFMAN, HAROLD F., Social Sci. Res. Cr., Mississippi State Univ., State College, Miss.**
mental health; social change; community; socio-environment..urban areas; socioeconomics; identification; role; social status; occupations; community service; attitude; interviews; geographical sites.. Mississippi

OM-01233 **JAMES, BERNARD J., Univ. Wisconsin, Madison, Wis.**
training; administrative personnel; psychiatrists

OM-01236 **ISAACSON, JOHN, Rochester State Hosp., Rochester, Minn.**
psychiatric patients; mental hospitals; deafness; diagnostic tests; rehabilitation; psychotherapy; hearing aids; social adjustment; behavior rating scales; family; interviews; social worker

OM-01242 **ENOS, FRANCIS A., Jane Wayland Child Cr., Phoenix, Ariz.**
rehabilitation; learning; children; emotional disturbance; day center; family..parents; group therapy; therapy evaluation; community service; geographical sites..Arizona

OM-01243 **KENT, ELIZABETH L., Grad. Sch., Lafayette Clinic, Detroit, Mich.**
education..nursing education; psychiatry; teaching; patient care; community service; hospitals patients; emotional disturbance

OM-01247 **MEAD, NIRNA E., 448 Kensington Drive, Biloxi, Miss.**
social adjustment; rehabilitation; psychiatric patients; vocational guidance; group therapy; community service

OM-01252 **SELLIN, THORSTEN, Univ. Pennsylvania., Philadelphia, Pa.**
juvenile delinquency; socioenvironment..urban areas; survey; statistics; geographical sites..Pennsylvania; age

OM-01256 **ADAMS, ROBERT S., Child Guidance Clinic Waterbury, Waterbury, Conn.**
psychotherapy; family..parent-child; community services; communication; longitudinal study; decision-making; attitudes

OM-01258 **FRYER, GIDEON W., Sch. Social Work, Univ. Tennessee, Knoxville, Tenn.**
decision-making; family..marriage; adults; socio-economics..low income groups; community service; social adjustment

OM-01259 **FAIRWEATHER, GEORGE W., Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.**
research programs; rehabilitation; psychiatric patients; separation; employment; social adjustment; self-concept; halfway house; hospitals..psychiatric ward; community; therapy evaluation; longitudinal study; psychotherapy

OM-01268 **SUGI, TETSU, Camp Fire Girls, Los Angeles Area Council, Inc., Los Angeles, Cal.**
mental health; community service; education; deprivation; ethnics groups; social adjustment

OM-01272 **GRUNEBAUM, HENRY U., Massachusetts Mental Hlth. Res. Corp., Boston, Mass.**
psychotherapy; maternal behavior; child development; family..parent-child; emotional disturbance; therapy evaluation; hospitals..wards

OM-01275 **WILLIAMS, T. GLYNE, Dept MH and Mental Retardation, Oklahoma City, Okla.**
psychiatric patients; social adjustment; community service; social worker; travel; hospitals

OM-01292 **SHELLY, JOSEPH A., Supreme Court State of New York, Brooklyn, N.Y.**
drugs addiction; rehabilitation; criminology; halfway house; group therapy; occupational therapy; role; social adjustment; self-concept; motivation; attitudes; chromatography

OM-01297 **VERNON, CHARLES R., North Carolina Dept. Mental Hlth., Raleigh, N.C.**
mental disorders; epidemiology; psychiatric patients; medical records; information exchange; biometry; computer analysis; geographical sites..North Carolina

OM-01304 **RECKLESS, WALTER C., Ohio State Univ. Res. Fdn., Columbus, Ohio**
juvenile delinquency; education..secondary education; education..student drop-outs; academic achievement; teaching; socioenvironment..urban areas; geographical sites..Ohio

OM-01305 **MELBIN, MURRAY, McLean Hosp., Belmont, Mass.**
hospitals administration; social organization..institutional organization; hospitals personnel; nurses; interpersonal behavior; patient care; computer [illegible]; computer simulation

OM-01312 **RADAUSKAS, BRUNO, Spring Grove State Hosp., Catonsville, Md.**
psychiatric patients; rehabilitation; mental hospitals; hospitals outpatients; social [illegible]

OM-01320 **KIRBY, BERNARD C., San Diego State Col., San Diego, Cal.**
criminology; rehabilitation; halfway house; community service

OM-01330 **MASTERS, HUGH B., Univ. Georgia, Athens, Ga.**
conferences; community service; vocational guidance; geographical sites..United States; education..retirement and pre--retirement education

OM-01335 **WORTIS, JOSEPH, Jewish Hospital, Brooklyn, N.Y.**
mental retardation; children; medical records; computer analysis

OM-01341 LOHMAN, JOSEPH D., Univ. California, Berkeley, Cal.
criminology; criteria; classification; psychological tests; behavioral adjustment; social psychology; adults

OM-01347 MILES, DONALD G., Fort Logan Mental Health Cr., Fort Logan, Colo.
mental hospitals; rehabilitation; psychiatric patients; sheltered employment; personality; behavioral adjustment; hospital--community relations; self--concept; behavior rating scales; mental health personnel; geographical sites..United States

OM-01354 BARRETT, BEATRICE H., Walter E. Fernald State Sch., Waverly, Mass.
mental retardation; children; training; criteria; behavior; instrumentation-methodology; electron recording; research programs

OM-01358 WILNER, DANIEL M., Sch. Pub. Hlth., Univ. California, Los Angeles, Cal.
socioeconomics..housing; aging; mental health; social adjustment; longitudinal study; publications..literature survey; survey; interviews

OM-01366 BIRNBRAUER, JAY S., Sch. Arts, Sci., Univ. Washington, Seattle, Wash.
programmed learning; mental retardation; children; education..special classes; teaching; training

OM-01368 SPRINGER, DONALD, Beth Abraham Home, Bronx, N.Y.
rehabilitation; aging; nursing homes; mental health; research programs; sheltered employment

OM-01377 ROY, IRVING, Catholic Social Service, Stockton, Cal.
children; emotional disturbance; therapy evaluation; family therapy; consultation; education..schools

OM-01381 LARSEN, VIRGINIA L., Mental Health Research Inst., Ft. Steilacoom, Wash.
pregnancy..postpartum; stress; emotional disturbance; maternal behavior; family..parents; interpersonal behavior; psychophysiology; psychological tests; interviews; questionnaire; socioenvironment; social status; pregnancy..perinatal; thyroid function

OM-01382 MADORE, C. ELIZABETH, Dona Ana Mental Health Services, Las Cruces, N.Mex.
mental health personnel; training; manpower; community services; administration; geographical sites..New Mexico

OM-01385 McPARTLAND, THOMAS S., Greater Kansas City Mental Hlth. Fdn., Kansas City, Mo.
coding; community; hospital-community relations; interviews; psychiatric patients; psychotherapy; social adjustment

OM-01386 HORNSTRA, ROBIJN K., Greater Kansas City Mental Health Fdn., Kansas City, Mo.
hospitals outpatients; hospitals release; psychiatric patients; psychotherapy; community service; age; sex difference; ethnic groups; attitude

OM-01389 SEARS, WILLIAM F., McKinley County Family Consultation Service, Inc., Gallup, N. Mex.
ethnic groups..American Indians; alcoholism; socioculture; education..special classes; psychotherapy; disulfiram; therapy evaluation; community service; geographical sites..New Mexico

OM-01393 BROTMAN, RICHARD, New York Med. Col., New York, N.Y.
community service; day center; rehabilitation; drugs addiction; alcoholism; socioenvironment..urban areas; counselling; sheltered employment; social service; group therapy; geographical sites..New York

OM-01401 ROWLAND, LOYD W., Louisiana Assn. Mental Health, New Orleans, La.
police; education..audio--visual aids; psychiatric patients; cinematography; travel; conferences.. workshop

OM-01404 RIESE, HERTHA, Rt. 2, Box 397, Glen Allen, Va.
children; emotional disturbance; therapy evaluation; hospitals..day hospital; education; group therapy; family..parents; interpersonal behavior..cooperation; community; social adjustment; ethnic groups..Negroes; foster homes; attitudes; longitudinal study; ethnic groups..whites; success--failure

OM-01405 BLACK, BERTRAM J., Altro Work Shops, Inc., N.Y.C.
mental disorders; rehabilitation; travel; survey; geographical sites..Europe; sheltered employment

OM-01407 MEILE, RICHARD L., Nebraska Psychiatric Inst., Omaha, Nebr.
social psychology; psychotherapy; mental disorders; attitudes; cognition; questionnaire; interviews; adults

OM-01410 GOLDFARB, ALLAN, Dept. Pub. Hlth. Welfare, San Mateo, Cal.
diagnostic tests; ecology, human; mental disorders; screening

OM-01411 CHAFETZ, MORRIS E., Sch. Psychiatry, Massachusetts Gen. Hosp., Boston, Mass.
attitudes; community service; hospital-community relations; hospitals..emergency rooms; hospitals admissions; information exchange; mental health personnel; motivation; psychiatric patients; therapy; training; volunteers

OM-01416 WILLIAMS, HARRY B., Southern Regional Education Board, Atlanta, Ga.
mental health; statistics; information exchange; training; mental health personnel; conferences.. workshop; publications

OM-01418 MEYER, EUGENE, Johns Hopkins Hosp., Baltimore, Md.
psychotherapy; community service; hospitals outpatients; socioeconomics; socioenvironment..urban areas; socioenvironment..rural areas; age; ethnic groups..race; interviews; therapy evaluation; physician-patient relationship

OM-01420 BRIGGS, THOMAS L., National Assn. Social Workers, N.Y.C.
mental hospitals; social worker; rehabilitation; psychiatric patients; criteria; patient care; hospitals administration; interpersonal behavior; education; judgment; social adjustment; social service; manpower; role

OM-01421 NOTMAN, RALPH R., University Hosp., Inc., Boston, Mass.
community; mental health; mental disorders; survey; social organization..institutional organization; longitudinal study; patient care

OM-01428 LIDDLE, GORDON, Univ. Maryland, College Park, Md.
education..schools; physicians; psychologists; nurses; social worker; community; children; cooperative study

OM-01429 BRODY, SYLVIA, Lenox Hill Hosp., N.Y.C.
maternal behavior; infants, human; family..parent-child; feeding; family..child rearing; child development; interviews; cinematography; personality; research programs; counselling

OM-01430 WOLINS, MARTIN, Sch. Social Work, Univ. California, Berkeley, Cal.
child care; family; separation; child development; socioculture; foster homes; social organization..institutional organization; geographical sites

OM-01432 TEICHER, JOSEPH D., Sch. Med., Univ. Southern California, Los Angeles, Cal.
suicide; children, adolescence; social adjustment; peer group; personality; socioenvironment; socioculture; psychotherapy; prediction; longitudinal study; research programs

OM-01436 BAUER, RALSTON S., Circle F. Club, Inc., Minneapolis, Minn.
psychiatric patients; patient care, post-hospitalization; social adjustment; psychometrics; vocational guidance; community service; day center

OM-01440 GRAGG, LOGAN, Jr., Eastern State Hosp., Lexington, Ky.
nurses; social worker; community service; psychiatric patients; hospitals outpaitents; socioeconomics..low income groups; socioenvironment..rural areas

OM-01444 BALZER, MRS. FRANC, Health and Welfare Council, Washington, D.C.
administration; child care; child development; community service; role; social organization..institutional organization; training; volunteers

OM-01446 WEINER, LEONARD, Boston State Hosp., Boston, Mass.
physicians; consultation; psychiatry; physician--patient relationship; role; attitude; family; survey; community service; mental health

OM-01447 GREENBLATT, MILTON, Boston State Hosp., Boston, Mass.
patient care..home care; psychiatric patients; community service; screening; criteria; therapy; mental disorders; community

OM-01449 CHAFETZ, MORRIS E., Massachusetts Gen. Hosp., Boston, Mass.
alcoholism; mental health; deviant behavior; group therapy; courts; adults; anthropometry; reaction time; self--concept; survey; interviews; psychological tests

OM-01452 WOOTTON, RAY W., Idaho Dept. Health, Boise, Idaho
children; family; family therapy; socioenvironment.. rural areas; socioeconomics..low income groups; emotional disturbance; juvenile delinquency; community service; health department; court personnel; cooperative study; preventive medicine; education; problem solving; rehabilitation; social adjustment

OM-01455 McGLOTHLIN, WILLIAM J., Belknap Campus, Univ. Louisville, Louisville, Ky.
career; motivation; mental health personnel; manpower; education..secondary education; group counselling

OM-01457 ADAMS, WILLIAM T., Western Interstate Comm. Higher Education, Boulder, Colo.
training; mental health personnel; juvenile delinquency; education..universities; conferences..workshop; travel; geographical sites..United States, Western; criteria

OM-01458 SHEEHAN, JANE P., Minnesota Dept. Hlth., Univ. Minnesota Campus, Minneapolis, Minn.
public health nurses; patient care..post-hospitalization; psychiatric patients; family; socioenvironment..rural areas; community service; nursing homes; geographical sites..Minnesota; longitudinal study; hospital-community relations

OM-01460 ANDREW, GWEN, Michigan Dept. Mental Hlth., Lansing, Mich.
mental health; research programs; administration; mental hospitals; hospitals administration; problem solving; mathematical models; health department; geographical sites..Michigan; computer analysis

OM-01461 McCARTHY, JAMES J., Sch. Education, Univ. Wisconsin, Madison, Wis.
mental retardation; children; rehabilitation; sensory deprivation; socioenvironment; visual perception; audiostimulus; speech; psychophysics

OM-01466 MANLEY, HARRY A., Bu. Rehabilitation, Washington, D.C.
community service; halfway house; rehabilitation; criminology; social adjustment; orientation, psychological; group counselling

OM-01468 LAKIN, MARTIN, Duke Univ. Med. Cr., Durham, N.C.
psychotherapy; mental health personnel; training; group counselling; self-concept; interpersonal behavior; group therapy; psychiatric patients

(contd)

LISTING OF GENERAL RESEARCH AREAS

MENTAL HEALTH PROJECT GRANTS REVIEW COMMITTEE (CONTD)

OM-01469 CHOPE, HAROLD D., Dept. Pub. Hlth, Welfare, San Mateo, Cal.
community service; mental health; cooperative study; administration; information exchange; consultation

OM-01470 ZWERLING, ISRAEL, Albert Einstein College Med., N.Y.C.
community service; mental health; cooperative study; administration; information exchange; consultation

OM-01472 WYLIE, MARY L., Sch. Social Work, Univ. Kansas, Lawrence, Kans.
aging; socioenvironment..rural areas; manpower; role; community service; criteria; morale

OM-01475 RADIN, SHERWIN S., 409 West Genesee St., Syracuse, N.Y.
children; education..elementary education; education special classes; emotional disturbance; rehabilitation; academic achievement; interpersonal behavior; therapy evaluation; mental health personnel; community service

OM-01480 WEILAND, I. HYMAN, San Fernando Valley Child Guidance Clinic, Sherman Oaks, Cal.
emotional disturbance; children; group therapy; family therapy; group counselling; community service; questionnaire; family..parent--child; geographical sites..California

OM-01482 KAUFMAN, M. RALPH, Mount Sinai Hosp., N.Y.C.
community service; mental health; cooperative study; administration; information exchange; consultation

OM-01483 PERLIN, SEYMOUR, Montefiore Hospital, N.Y.C.
community health; mental health; cooperative study; administration; information exchange; consultation

OM-01484 KRAFT, ALAN M., Fort Logan Mental Health Cr., Fort Logan, Colo.
community service; rehabilitaion; psychiatric patients; training; mental health personnel; day hospital; information exchange

OM-01485 EWALT, JACK R., Massachusetts Mental Health Cr., Boston, Mass.
community service; mental health; cooperative study; administration; information exchange; consultation; hospitals..day hospital

OM-01487 HUGHES, ROBERT B., Southeastern Mental Health Cr., Sioux Falls, S.D.
mental health; community service; cooperative study; administration; information exchange; consultation

OM-01499 HOLZBERG, JULES D., Wesleyan Univ., Middletown, Conn.
personality; education..university students; psychiatric patients; dyadic interaction; perception; self-concept; anxiety; charcter; values

OM-01500 COWEN, EMORY L., Univ. Rochester, River Campus Sta., Rochester, N.Y.
research programs; mental health; emotional disturbance; children; longitudinal study; diagnostic tests; community service; psychotherapy; education.. elementary education; family..parents; family.. child rearing; teaching; training; mental health personnel; psychological tests; interviews; behavior rating scales; social adjustment; group counselling; attitude; role; computer analysis; preventive medicine

OM-01508 KASMAN, JAQUES W., Grad. Sch., Univ. California, Los Angeles, Cal.
interpersonal behavior; emotional disturbance; learning; children; communication; family..parent-child; education.. elementary education; group counselling; family therapy; therapy evaluation; longitudinal study

OM-01513 WILKINSON, CHARLES B., Greater Kansas City Mental Health Fdn., Kansas City, Mo.
community service; psychiatric patients; training; mental health personnel; information exchange

OM-01519 RICHARDS, GUY A., Utah State Training Sch., American Fork, Utah
mental hospitals; hospitals administration; mental retardation; social adjustment; rehabilitation; therapy evaluation; patient care; consultation; training; mental health personnel

OM-01520 BOCKOVEN, J. SANBOURNE, Cushing Hosp., Framingham, Mass.
aging; death; patient care..terminal patients; hospitals patients; training; attitudes; social psychology; hospitals personnel; communication

OM-01523 WEINER, HYMAN J., Sidney Hillman Health Cr.,N.Y.C.
mental health; rehabilitation; emotional disturbance; vocational guidance; labor unions; employment; community service; socioeconomics..low income groups; mental health personnel; geographical sites..New York

OM-01527 GOLDBERG, MARTIN, Inst. of Pennsylvania Hosp., Philadelphia, Pa.
social service; mental health; migrants (sociological); social adjustment; interviews; mental disorders; emotional disturbance; attitude; interpersonal behavior; computer analysis; geographical sites.. Pennsylvania; socioenvironment..urban areas

OM-01531 GOVELIA, LEONARD H., Rehabilitation Planning Committee, Santa Clara, Cal.
halfway house; psychiatric patients; rehabilitation; social adjustment; attitudes; family; community; preventive medicine

OM-01535 MOTTO, ROCCO L., Reiss-Davis Clinic for Child Guidance, Los Angeles, Cal.
day center; psychotherapy; emotional disturbance; children; survey; travel

OM-01537 GRANICK, SAMUEL, Home for Jewish Aged, Philadelphia, Pa.
aging; community service; mental health; patient care; attitudes; social adjustment; isolation; psychometrics; interviews; nursing homes; counselling

OM-01539 FELDMAN, ALBERT G., Welfare Planning Council, Los Angeles, Cal.
mental health; community service; socioenvironment.. urban areas; socioeconomics..low income groups; ethnic groups..Mexican--Americans

OM-01540 MATHIASEN, GENEVA, National Council on the Aging, N.Y.C.
aging; community service; mental disorders; cooperative study

OM-01541 FRANCIS, BYRON F., Washington State Health Dept., Olympia, Wash.
alcoholism; tuberculosis; rehabilitation; therapy evaluation; hospital--community relations; administrative personnel; hospitals administration; mental health personnel; consultation; community service; geographical sites..United States; public health; hospitals patients

OM-01544 GAGE, N.L., Stanford Univ. Stanford, Cal.
interpersonal behavior; administrative personnel; teaching; education..elementary education; education ..schools; behavior rating scales; self-concept; computer analysis

OM-01547 DONAHUE, WILMA, Grad. Sch., Univ. Michigan, Ann Arbor, Mich.
mental hospitals; psychiatric patients; aging; rehabilitation; community service; sheltered employment; occupational therapy; hospital-community relations; self-concept; behavioral adjustment; hospitals outpatients; foster homes; nursing homes; halfway house; mental health personnel; manpower; geographical sites..Michigan

OM-01551 SARGENT, DOUGLAS A., Merrill-Palmer Inst., Detroit, Mich.
foster homes; children; emotional disturbance; group work; social service; family..parents; social adjustment; information exchange

OM-01554 LEENHOUTS, KEITH J., Municipal Court, City Hall, Royal Oak, Mich.
rehabilitation; criminology; social service; psychiatrists; social worker; volunteers; counselling; attitude; manpower

OM-01563 SANDERS, RICHARD, Philadelphia State Hosp., Philadelphia, Pa.
rehabilitation; psychiatric patients; therapy evaluation; socioenvironment; group work; prediction; social adjustment; social behavior

OM-01570 SIGURDSON, HERBERT R., Youth Studies Cr., Univ. Southern California, Los Angeles, Cal.
social change; community; education; juvenile delinquency; social adjustment; socioenvironment; ethnic groups; leadership; social service; geographical sites.. California

OM-01572 SHIRAISHI, TOYOHIKO J., Olive View Hosp., Olive View, Cal.
hospitals patients; alcoholism; behavior; therapy evaluation; tuberculosis; community service

OM-01573 BENSCHOTER, REBA A., Col. Med., Nebraska Psychiatric Inst., Omaha, Nebr.
medical facilities planning; mental hospitals; education.. universities; education..medical education; research potential; hospitals personnel; training; consultation; television; communication; hospitals outpatients; psychiatric patients; children; patient care; therapy; speech disorders; family

OM-01577 LANGSLEY, DONALD G., Univ. Colorado Med. Cr., Denver, Colo.
family therapy; psychiatric patients; patient care.. home care; community service; mental health; inter-personal behavior

OM-01582 HILGARD, JOSEPHINE R., Stanford Univ., Stanford, Cal.
psychotherapy; emotional disturbance; children..adolescence; recreation; self-concept; dyadic interaction; mental health personnel; adults

OM-01594 BLAKE, ELEANOR, Family and Childrens Soc., Baltimore, Md.
community service; homemaker service; social service; mental health; psychiatric patients; social adjustment; hospitals outpatients; day center; social worker; emotional disturbance; geographical sites..Maryland; interviews

OM-01604 ROBBINS, HAROLD W., New York Serv., Orthopedically Handicapped, New York, N.Y.
handicapped children; mental health; social adjustment; rehabilitation; group therapy; personality; attitudes; psychological tests; family..parents; interviews; psychometrics; social service; geographical sites..New York; recreation; self--concept

OM-01610 TALKINGTON, PERRY C., Timberlawn Foundation, Inc. Dallas, Tex.
mental disorders; medical records; psychiatric patients; socioenvironment; ecology, human; survey; longitudinal study; biometry

OM-01611 **WILLIAMS, HARRY B., Southern Regional Education Board, Atlanta, Ga.**
mental health; mental disorders; survey; statistics; research potential; cooperative study; information exchange

OM-01614 **MARTIN, LEWIS C., Multnomah Counth Public Health, Portland, Ore.**
children; schizophrenia; autism; symbiotic child psychosis; psychiatric patients; therapy evaluation; education.. special classes; social adjustment; family..parents

OM-01616 **GRANT, J. DOUGLAS, California Dept. Corrections, Sacramento, Cal.**
community service; career; criminology; juvenile delinquency; rehabilitation; training; social adjustment; orientation; employment; social worker; social--organization; motivation; goal--striving behavior

OM-01621 **STEWART, GEORGE H., Michigan State Board of Alcoholism, Lansing, Mich.**
alcoholism; education; therapy; community service

OM-01624 **STOTSKY, BERNARD A., Northeastern Univ. with Boston State Hosp., Boston, Mass.**
behavioral adjustment; psychiatric patients; nursing homes; hospitals outpatients; mental hospital; behavior rating scales; interviews; questionnaire; attitude; mental health personnel; family; therapy evaluation; psychotherapy; group therapy; rehabilitation; community service

OM-01625 **BALSER, BENJAMIN H., St. Luke's Hosp., New York, N.Y.**
emotional disturbance; mental health; children.. adolescence; psychotherapy; psychological tests; training; social behavior; family..parents; teaching; conferences..workshop; community service; mental health personnel; education..secondary education.. prediction

OM-01626 **PUMPHREY, MURIEL W., Grad. Sch. Arts, Sci., Washington Univ., St. Louis, Mo.**
mental retardation; children; social adjustment; education..schools; rehabilitation; peer group; interpersonal behavior; emotional reactions; recreation; psychological tests; family..parent--child; publications..monograph; community service; attitude; education..special classes; social worker

OM-01631 **COHEN, JEROME, Sch. Soc. Welfare, Univ. California, Los Angeles, Cal.**
mental health; social worker; occupations; survey; travel; interviews recording; publications..literature survey; consultation; education; community

OM-01634 **GOLDFARB, ALVIN I., Council of Jewish Federations and Welfare Funds, New York City**
aging; mental health; nursing homes; therapy; patient care; mental disorders; questionnaire

OM-01637 **KRAENZEL, CARL F., Sch. Agr., Montana State Col., Bozeman, Mont.**
geographical sites..Montana; socioenvironment..rural areas; mental disorders; medical services; psychiatric patients; patient care..post-hospitalization

OM-01639 **BECKER, ALVIN, Boston State Hosp., Dorchester, Mass.**
occupational therapy; psychiatric patients; hospitals outpatients; social adjustment; rehabilitation; socioenvironment..urban areas; geographical sites..Massachusetts; community service

OM-01645 **SAREYAN, ALEX, Mental Hlth. Materials Cr., Inc., New York, N.Y.**
mental health; education; conferences..workshop; publications; criteria; communication; administrative personnel; family..parent--child; travel

OM-01646 **MILLER, DOROTHY H., California Dept. Mental Hygiene, Sacramento, Cal.**
psychiatric patients; social adjustment; interpersonal behavior; hospitals release; success-failure; hospitals admissions; patient care; age; sex difference; experience; interviews; role; family; mental health

OM-01647 **GUISS, RUSSELL L., Oregon State Board Control, Salem, Ore.**
mental hospitals; hospital-community relations; hospitals personnel; court personnel; nursing homes; aging; hospitals admissions; hospitals release; social service

OM-01648 **KLIEWER, DEAN, Prairie View Hosp., Newton, Kans.**
psychiatric patients; rehabilitation; hospitals outpatients; mental hospitals; day center; community service; hospital-community relations; psychotherapy; group therapy; mental health personnel; education.. universities; socioenvironment..rural areas; geographical sites..Kansas

OM-01650 **MacDONALD, RALPHYNE, City, County Pub. Health, San Francisco, Cal.**
information exchange; mental retardation; children; counselling; family..parents; social service; community service; social worker; medical records; documentation systems; geographical sites..California

OM-01652 **BEKER, JEROME, Syracuse Univ., Syracuse, N.Y.**
social integration; education..schools; children; social adjustment; attitude; interpersonal behavior; learning; academic achievement; teaching; ethnic groups; conflict; mental health personnel; community service; geographical sites..New York

OM-01662 **SAALWAECHTER, GENE, Berkeley Workreation Council, Berkeley, Cal.**
community service; children..adolescence; employment; recreation

OM-01665 **CARBONE, HUBERT A., State Hosp., Jamestown, N.D.**
children..adolescence; emotional disturbance; mental disorders; psychotherapy; rehabilitation; training; patient care; mental hospitals

OM-01667 **EDELSON, DAVID, Dixon State Sch., Dixon, Ill.**
rehabilitation; psychiatric patients; hospitals outpatients; mental hospitals; hospital--community relations; community service; training; social worker; psychotherapy; geographical sites.. Illinois; interviews; family; patient care

OM-01672 **WITTEN, HAROLD B., Western State Hosp., Fort Supply, Okla.**
psychiatric patients; aging; psychotherapy; occupational therapy; physical therapy; behavioral adjustment; patient care; hospital--community relations; community service; manpower; mental health personnel; mental hospitals; geographical sites..Oklahoma; hospitals admissions

OM-01676 **PORTER, ROBERT M., State Home and Training Sch., Grand Junction, Colo.**
mental retardation; rehabilitation; physical therapy; training; recreation; social adjustment; motivation; education..special classes; employment; community; mental health personnel

OM-01677 **ZIER, MERLIN W., State Home and Training Sch., Wheat Ridge, Colo.**
rehabilitation; mental retardation; social adjustment; vocational guidance; sheltered employment; physical therapy; education..schools; geographical sites.. Colorado; motivation; manpower; community service

OM-01678 **ZUBOWICZ, GEORGE, Menninger Fdn., Topeka, Kans.**
patient care; mental retardation; psychiatric patients; therapy; social organization..institutional organization; hospitals personnel; community service; mental hospitals

OM-01679 **CONNOR, ANGIE, Dept. of Health, Honolulu, Hawaii**
mental retardation; rehabilitation; psychiatric patients; training; social worker; recreation; occupational therapy; community service; education; patient care; behavior rating scales; geographical sites..Hawaii

OM-01680 **PARTLOW, R.C., Partlow State Sch., Hosp., Tuscaloosa, Ala.**
physical therapy; mental retardation; neuromuscular disorders; hospitals personnel; hospitals patients; hospitals..wards; exercise; rehabilitation

OM-01681 **SMITH, DONALD, Alabama State Hosps., Bryce Hosp., Tuscaloosa, Ala.**
schizophrenia; separation; hospitals..psychiatric wards; mental hospitals; education; psychotherapy; programmed learning; recreation; patient care; manpower; mental health personnel; hospitals personnel; geographical sites..Alabama

OM-01684 **INGHAM, CHARLES G., Norfolk State Hosp., Norfolk, Nebr.**
community service; mental hospitals; rehabilitation; aging; psychiatric patients; hospital--community relations; social adjustment; manpower; training; mental health personnel; physicians; social worker; nurses

OM-01685 **COATS, EDWIN A., Lincoln State Hosp., Lincoln, Nebr.**
mental disorders; children; mental hospitals; rehabilitation; training; mental health personnel; community service; volunteers; psychiatric aides; patient care; psychotherapy; social service; education; hospital--community relations; occupational therapy; physical therapy; vocational guidance; geographical sites..Nebraska

OM-01687 **WYANT, M.E., Beatrice State Home, Beatrice, Nebr.**
mental retardation; patient care; training; rehabilitation; vocational guidance; employment

OM-01688 **LITSINGER, EDWARD A., Spencer State Hosp., Spencer, W. Va.**
alcoholism; rehabilitation; patient care; psychiatric patients; group therapy; community service

OM-01689 **ANDERSON, COLIN A., West Virginia Training Sch., St. Marys, W.Va.**
mental retardation; children; training; hospitals personnel; hospitals sanitation; motivation; patient care; habit

OM-01690 **WALDEN, ROBERT E., Lakin State Hosp., Lakin, W. Va.**
emotional disturbance; children..adolescence; psychotherapy; patient care; hospitals..outpatients; family; socioculture

OM-01691 **BARANSKI, ALEXANDER H., Weston State Hosp., Weston, W.Va.**
mental hospitals; rehabilitation; psychiatric patients; psychotherapy; chemotherapy; vocational guidance; manpower; mental health personnel; psychiatric aides; psychiatrists; psychologists; social worker; nurses; recreation; geographical sites..West Virginia

OM-01692 **DE LEMOS, GASTON, West Virginia Dept. Mental Hlth., Huntington, W.Va.**
rehabilitation; psychiatric patients; mental hospitals; day center; hospitals outpatients; hospital--community relations; vocational guidance; counselling; recreation; manpower; mental health personnel; social worker; psychologists; psychiatrists; geographical sites..West Virginia; community service

(contd)

LISTING OF GENERAL RESEARCH AREAS

MENTAL HEALTH PROJECT GRANTS REVIEW COMMITTEE (CONTD)

OM-01693 GRIMES, B.P., St. Peter State Hosp., St. Peter, Minn.
mental hospitals; psychiatric patients; rehabilitation; vocational guidance; training; community service; hospital-community relations; manpower; group counselling; administrative personnel; geographical sites..Minnesota

OM-01694 ZELLER, HECTOR C., Hastings State Hosp., Hastings, Minn.
rehabilitation; psychiatric patients; vocational guidance; sheltered employment; recreation; group therapy; rewards and nonrewards; longitudinal study; manpower; psychiatric aides; social worker; public health nurses; counselling; mental hospitals; geographical sites..Minnesota

OM-01696 DOCHERTY, JOHN A., Anoka State Hosp., Anoka, Minn.
children..adolescence; emotional disturbance; patient care; psychotherapy; social behavior; medical facilities planning

OM-01697 TYCE, FRANCIS A., Rochester State Hosp., Rochester, Minn.
mental hospitals; psychiatric patients; aging; day center; community service; patient care; training; hospitals personnel; sheltered employment; rehabilitation; alcoholism; geographical sites.. Minnesota

OM-01698 PATTERSON, WILLIAM L., Fergus Falls State Hosp., Fergus Falls, Minn.
mental hospitals; mental disorders; rehabilitation; psychiatric patients; family therapy; hospital--community relations; manpower; mental health personnel; social worker; nurses; psychologists; community service; travel; conferences..workshop; geographical sites..Minnesota

OM-01700 HENDERSON, C.M., Owatonna State Sch., Owatonna, Minn.
mental retardation; emotional disturbance; children ..adolescence; social adjustment; education..schools; vocational guidance; counselling; self--organization; child care; manpower; geographical sites..Minnesota

OM-01701 ENGBERG, E.J., Faribault State Sch., Hosp., Faribault, Minn.
research programs; psychiatric patients; mental hospitals; rehabilitation; psychotherapy; therapy evaluation; medical records; documentation systems; information exchange; hospitals administration; training; mental health personnel; manpower; hospital-community relations

OM-01702 SMITH, JOHN G., Dr. Joseph H. Ladd Sch., North Kingstown, R.I.
mental retardation; patient care; training; recreation

OM-01703 BACKRASS, ERWIN, Rhode Island Med. Cr., Howard, R.I.
mental hospitals; day center; rehabilitation; psychiatric patients; community service; hospitals outpatients; patient care; foster homes; halfway house; mental health personnel; psychiatrists; social worker; nurses; geographical sites..Rhode Island; hospital-community relations

OM-01705 RICHARDS, GUY A., Utah State Training Sch., American Fork, Utah
therapy; emotional disturbance; mental retardation; handicapped children; diagnostic tests; speech disorders; deafness

OM-01706 LINGL, FREDERICK A., Hawthornden State Hosp., Northfield, Ohio
rehabilitation; children..adolescence; emotional disturbance; mental hospitals; geographical sites.. Ohio; training; mental health personnel; community service; day center; psychotherapy; education.. special classes; social adjustment; peer group; vocational guidance; patient care

OM-01707 GROVER, WILLIAM L., Cleveland State Hosp., Cleveland, Ohio
mental hospitals; day center; rehabilitation; psychiatric patients; community service; hospitals outpatients; hospital-community relations; occupational therapy; recreation; mental health personnel; geographical sites..Ohio

OM-01708 DUTY, JOSEPH E., Toledo State, Rec. Hosp., Toledo, Ohio
mental hospitals; rehabilitation; psychiatric patients; education; self-concept; children..adolescence; adults; community service; geographical sites..Ohio

OM-01709 MARTIN, CHARLES H., Rainier Sch., Buckley, Wash.
mental hospitals; rehabilitation; mental retardation; community service; training; vocational guidance; social adjustment; hospitals outpatients; hospital-community relations; mental health personnel; travel; geographical sites..Washington

OM-01710 diFURIA, GIULIO, Western State Hospital, Fort Steilacoom, Wash.
mental hospitals; psychiatric patients; rehabilitation; patient care; community service; psychotherapy; hospitals outpatients; hospital-community relations; mental health personnel; manpower; training; nursing homes; medical records; geographical sites..Washington

OM-01712 MARTIN, DONALD W., Pontiac State Hosp., Pontiac, Mich.
mental hospitals; rehabilitation; psychiatric patients; medical facilities planning; hospitals.. psychiatric ward; psychotherapy; mental health personnel; patient care; geographical sites..Michigan

OM-01713 HINKO, EDWARD N., Ypsilanti State Hosp., Ypsilanti, Mich.
mental hospitals; community service; rehabilitation; psychiatric patients; hospital--community relations; psychotherapy; occupational therapy; medical facilities planning; mental health personnel; volunteers; geographical sites..Michigan

OM-01714 VITOLS, M.M., Cherry Hosp., Goldsboro, N.C.
children..adolescence; emotional disturbance; mental hospitals; patient care; rehabilitation; manpower; psychiatric aides; social worker; physicians; geographical sites..North Carolina; teaching

OM-01716 MANGUM, VERNON, O'Berry Center, Goldsboro, N.C.
mental hospitals; rehabilitation; social adjustment; psychiatric patients; patient care; hospitals personnel; interpersonal behavior; therapy evaluation; behavior rating scales; mental health personnel; geographical sites..North Carolina

OM-01718 DRUFF, JAMES H., Western State Hosp., Staunton, Va.
mental hospitals; rehabilitation; psychiatric patients; medical services; manpower; hospitals personnel; medical facilities planning; hospitals administration; hospital-community relations; training; vocational guidance; sheltered employment; geographical sites.. Virginia

OM-01719 TOLL, ARTHUR E., Laconia State Sch., Laconia, N.H.
rehabilitation; mental retardation; education; occupational therapy; recreation; psychotherapy; training; mental health personnel; manpower; patient care; geographical sites..New Hampshire; mental hospitals; community service

OM-01721 MEREDITH, CHARLES E., Brandon Training Sch., Brandon, Vt.
mental hospitals; children..adolescence; rehabilitation; recreation; exercise; physical therapy; mental health personnel; manpower; geographical sites..Vermont; mental disorders

OM-01722 PURSLEY, NORMAN B., Gracewood State Sch., Hosp., Gracewood, Ga.
mental hospitals; mental retardation; children; rehabilitation; social adjustment; patient care; mental health personnel; volunteers; social worker; administrative personnel; geographical sites..Georgia

OM-01724 MEREDITH, CHARLES E., Colorado State Hosp., Pueblo, Colo.
mental hospitals; day center; children; emotional disturbance; rehabilitation; patient care; psychotherapy; mental health personnel; hospitals personnel; geographical sites..Colorado

OM-01725 NENNO, ROBERT P., New Jersey State Hosp., Marlboro, N.J.
rehabilitation; psychiatric patients; hospital--community relations; occupational therapy; music therapy; recreation; vocational guidance; manpower; volunteers; mental health personnel; social adjustment; community service; mental hospitals; geographical sites.. New Jersey

OM-01726 WERNERT, JOHN J., Frankfort State Hosp. and Sch., Frankfort, Ky.
rehabilitation; mental retardation; social adjustment; employment; problem solving; group work; community

OM-01727 KERNOHAN, WILLIAM J., Kentucky State Hosp., Danville, Ky.
mental hospitals; psychiatric patients; aging; rehabilitation; social service; occupational therapy; medical facilities planning; computer analysis; medical records; community service; mental health personnel; geographical sites..Kentucky

OM-01728 DOWNING, BILLIE R., Outwood State Hosp., Sch., Dawson Springs, Ky.
self-concept; social adjustment; training; motivation; adults; patient care; mental retardation; hospitals release

OM-01730 BAY, ALFRED P., Topeka State Hosp., Topeka, Kans.
mental hospitals; day center; rehabilitation; psychiatric patients; community service; hospitals outpatients; psychotherapy; social adjustment; occupational therapy; recreation; mental health personnel; training; geographical sites..Kansas; family therapy; sheltered employment; volunteers; public opinion; preventive medicine

OM-01731 BAIR, HOWARD V., Parsons State Hosp. and Training Cr., Parsons, Kans.
mental hospitals; mental retardation; children.. adolescence; rehabilitation; behavioral adjustment; social adjustment; training; mental health personnel; administrative personnel; vocational guidance; sheltered employment; hospital--community relations; geographical sites..Kansas; community service; recreation

OM-01732 CAMERON, DALE C., Saint Elizabeths Hosp., Washington, D. C.
mental hospitals; rehabilitation; psychiatric patients; children..adolescence; day center; education; psychotherapy; occupational therapy; group therapy; recreation; social adjustment; mental health personnel; geographical sites..District of Columbia

OM-01733 RADAUSKAS, BRUNO, Spring Grove State Hosp., Baltimore, Md.
mental hospitals; psychiatric patients; rehabilitation; mental health personnel; manpower; group therapy; recreation; occupational therapy; geographical sites.. Maryland

OM-01735 SCHULTZ, HERBERT F., State Colony, Woodbine, N.J.

OM-01737 **ACUFF, CHARLES E., Arkansas Children's Colony, Conway, Ark.**
mental retardation; child care; education..special classes; training; community service

OM-01739 **VOEGELE, GEORGE E., Governor Bacon Health Cr., Delaware City, Del.**
mental hospitals; mental disorders; emotional disturbance; children..adolescence; psychotherapy; occupational therapy; recreation; medical facilities planning; manpower; mental health personnel; training; geographical sites..Delaware

OM-01745 **DICKERSON, WILLARD W., Caro State Hosp. for Epileptics, Caro, Mich.**
patient care..home care; epilepsy; mental retardation; nurses; rehabilitation; hospitals personnel education; training

OM-01751 **JASLOW, ROBERT I., Plymouth State Home, Training Sch., Northville, Mich.**
mental retardation; children; community service; rehabilitation; child care; manpower; education.. special classes; social worker; psychologists; mental health personnel; nurses; family..parent--child; speech disorders; consultation; geographical sites..Michigan

OM-01752 **ABRUZZO, ANTHONY M., Lapeer State Home and Training Sch., Lapeer, Mich.**
mental retardation; epilepsy; congenital abnormalities; neuromuscular disorders; surgery..postoperative; oral-facial surgery; orthopedics; diagnostic tests; physical therapy; rehabilitation

OM-01754 **CROWE, R.R., Nashville Metro Psychiatric Hosp., Nashville, Tenn.**
psychiatric patients; rehabilitation; counselling; group therapy; education; social adjustment; community service; hospital--community relations; family; hospitals outpatients; mental health personnel; patient care; training; mental hospitals; geographical sites..Tennessee

OM-01755 **SCHURTER, BETTYE S., Clover Bottom Hosp., Sch., Donelson, Tenn.**
mental hospitals; rehabilitation; psychiatric patients; education; vocational guidance; speech; hearing tests; hospitals outpatients; hospital--community relations; community service; group counselling; family; mental health personnel; genetics; geographical sites..Tennessee

OM-01757 **KELLEY, FRANCIS P., Mansfield State Training Sch., Mansfield Depot, Conn.**
mental hospitals; mental retardation; children; adults; rehabilitation; manpower; mental health personnel; volunteers; community service; training; sheltered employment; hospital-community relations; geographical sites.. Connecticut

OM-01758 **BOWMAN, PETER W., Pineland Hosp. and Training Cr., Pownal, Me.**
mental hospitals; mental retardation; emotional disturbance; children; adults; therapy; speech; hearing tests; medical facilities planning; geographical sites..Maine

OM-01760 **GRAGG, LOGAN, Eastern State Hosp., Lexington, Ky.**
mental hospitals; rehabilitation; psychiatric patients; community service; hospitals outpatients; group counselling; family therapy; patient care; mental health personnel; psychotherapy; psychiatrists; psychologists; social worker; geographical sites..Kentucky; nurses

OM-01761 **LINDBERG, THEODORE F., Medfield State Hosp., Harding, Mass.**
psychiatric patients; rehabilitation; hospitals release; employment; social behavior; self--concept; communication; community service; longitudinal study

OM-01762 **McLAUGHLIN, WILLIAM F., Metropolitan State Hosp., Waltham, Mass.**
rehabilitation; psychiatric patients; hospitals day hospitals; electroshock; psychotropic drugs; drugs interaction; performance; empolyment; interpersonal behavior; family; community

OM-01764 **FLOWER, BARDWELL H., Worcester State Hosp., Worcester, Mass.**
mental hospitals; hospitals..day hospital; patient care..post-hospitalization; community service; mental health; rehabilitation

OM-01765 **FINN, FRED F., Seaside Regional Cr., Waterford, Conn.**
mental retardation; children; community service; hospitals outpatients; patient care

OM-01766 **GILIBERTY, FRANK R., Southbury Training Sch., Southbury, Conn.**
mental retardation; physical therapy; training; group work; social organization, institutional organization

OM-01767 **BUTTIMORE, DENNIS J., North Jersey Training Sch., Totowa, N.J.**
mental retardation; children; semantics..language; hearing tests; learning; speech disorders; education..audio-visual aids; therapy

OM-01768 **BARONE, PAUL L., Nevada State Hosp., Nevada, Mo.**
mental hospitals; education; rehabilitation; psychiatric patients; emotional disturbance; mental retardation; adults; children; vocational guidance; programmed learning; teaching machine; geographical sites.. Missouri

OM-01769 **KILLIAN, E.W., Denton State Sch., Denton, Tex.**
mental hospitals; rehabilitation; mental retardation; children; education; vocational guidance; communication; family..parent-child; group counselling; hospitals outpatients; training; hospitals personnel; hospital-community relations; social service; geographical sites..Texas

OM-01770 **KELLY, MILES F., Arkansas State Hosp., Little Rock, Ark.**
mental hospitals; rehabilitation; psychiatric patients; patient care; psychotherapy; occupational therapy; mental health personnel; medical facilities planning; recreation; community service

OM-01771 **FULMER, THOMAS E., Southeast Louisiana Hosp., Mandeville, La.**
children..adolescence; emotional disturbance; behavioral adjustment; foster homes; therapy; family; hospital--community relations; patient care

OM-01773 **KEMP, HARDY A., Larned State Hosp., Larned, Kans.**
mental hospitals; hospitals personnel; training; research potential; employment..job satisfaction; patient care; manpower

OM-01775 **STILLINGER, CECIL G., Idaho Dept. Health, Boise, Idaho**
mental hospitals; rehabilitation; psychiatric patients; psychotherapy; patient care; mental health personnel hospitals personnel; training; hospital--community relations; community service; medical facilities planning; vocational guidance; occupational therapy; hospitals administration; geographical sites..United States

OM-01777 **STECK, ROBERT C., Anna State Hosp., Anna, Ill.**
occupational therapy; music therapy; recreation; education..university students; hospitals personnel; psychiatric patients; hospitals..wards; mental hospitals

OM-01779 **SILVA, FRANCISCO, East Louisiana State Hosp., Jackson, La.**
mental hospitals; psychiatric patients; rehabilitation; hospitals release; hospital--community relations; social adjustment; community service; foster homes; halfway house; training; hospitals personnel

OM-01780 **SEALE, ARTHUR L., Central Louisiana State Hosp., Pineville, La.**
mental hospitals; community service; rehabilitation; patient care; psychiatric patients; consultation; social worker; sociologists; court personnel; psychiatrists; manpower; medical records; hospital--community relations; communication; ethnic groups; geographical sites..Louisiana

OM-01781 **STUCKEY, COATES, Pinecrest State Sch., Pineville, La.**
rewards and nonrewards; mental retardation; training; patient care; social behavior; communication

OM-01786 **SOMMERNESS, M. DUANE, Traverse City State Hosp., Traverse City, Mich.**
psychiatric patients; emotional disturbance; social adjustment; training; employment; community; vocational guidance; children..adolescence; adults; self-concept; group counselling; education..special classes

OM-01788 **LANE, CHALMERS, Ellisville State School, Ellisville, Mississippi**
mental hospitals; rehabilitation; psychiatric patients; diagnostic tests; mental retardation; mental health personnel; manpower; physical therapy; social service; recreation; training; hospital--community relations; geographical sites.. Mississippi; nervous system disorders; psychotherapy

OM-01791 **ROGERS, STANLEY J., Montana State Hosp., Warm Springs, Mont.**
mental hospitals; psychotherapy; manpower; mental health personnel; psychiatric patients; hospital--community relations; rehabilitation; administrative personnel; education..nursing education; geographical sites..Montana

OM-01792 **ELLIOTT, JAMES F., Murdock Cr., Butner, N.C.**
rehabilitation; mental retardation; hospitals personnel; patient care..home care; therapy; social adjustment; family..parents; training; handicapped children

OM-01794 **ANNADOWN, RUTH V., Eastern State Hosp., Vinita, Okla.**
schizophrenia; patient care..ambulatory patients; group therapy; hospital-community relations; rehabilitation; mental hospitals

OM-01797 **KLAUMINZER, FREDERICK A., Vineland State Sch., Vineland, N.J.**
handicapped children; mental retardation; speech disorders; therapy; diagnostic tests; hospitals release; rehabilitation

OM-01799 **COOGAN, RICHARD, Walworth County Hosp., Elkhorn, Wis.**
diagnostic tests; therapy; psychiatric patients; mental hospitals

OM-01801 **URBEN, WALTER J., Mendota State Hosp., Madison, Wis.**
aging; rehabilitation; hospitals patients; therapy; group counselling; family; separation; mental health; mental hospitals

OM-01802 **URBEN, WALTER J., Mendota State Hosp., Madison, Wis.**
alcoholism; group therapy; hospitals..evaluation center; patient care; attitude; training; hospitals personnel; mental health; longitudinal study

OM-01804 **LIEBERMAN, LEONARD, Milwaukee County Mental Health, Milwaukee, Wis.**
mental retardation; psychiatric patients; community service; aging; hospitals release; family; nursing homes

OM-01805 **HERYFORD, FRED W., Wyoming State Training Sch., Lander, Wyo.**
mental retardation; epilepsy; training; rehabilitation; therapy; diagnostic tests;

LISTING OF GENERAL RESEARCH AREAS

MENTAL HEALTH PROJECT GRANTS REVIEW COMMITTEE (CONTD)

OM-01806 JUNKIN, FRANK E., Firecrest Sch., Seattle, Wash.
mental retardation; patient care..home care; family; community; training; group counselling; behavioral adjustment; handicapped children

OM-01807 GRAFF, R.J., Manteno State Hosp., Manteno, Ill.
aging; hospitals patients; survey; patient care..home care; family; community; nursing homes; mental hospitals; mental disorders; hospitals release

OM-01811 LAWLER, WILLIAM T., Travis State Sch., Austin, Tex.
mental retardation; children; training; child care; interpersonal behavior; social service; manpower; social worker; physical therapy; psychomotor functions; rewards and nonrewards; geographical sites..Texas; education..schools

OM-01812 JONES, VERNON, Mexia State Sch., Mexia, Tex.
mental retardation; rehabilitation; community service; education..special classes; communicative disorders; physical therapy; training; recreation; manpower; mental health personnel; mental hospitals; geographical sites..Texas

OM-01814 CHINN, HOWARD J., Redfield State Hosp. and Sch., Redfield, S. D.
mental retardation; rehabilitation; success-failure; employment; social adjustment; social desirability; community; education; training

OM-01815 PALMER, DAN, New Mexico State Hosp., Las Vegas, N. Mex
community; consultation; therapy; patient care.. home care; hospital-community relations; research potential; mental health personnel; social service; mental hospitals; psychiatric patients

OM-01816 SANDDAL, JAMES W., State Training Sch. and Hosp., Boulder, Mont.
rehabilitation; mental retardation; teaching; manpower; physical therapy; patient care; social worker; psychiatric aides; training; geographical sites..Montana; mental hospitals

OM-01817 PULLEN, MYRICK W., Jr., Idaho State Hosp. North, Orofino, Idaho
mental hospitals; rehabilitation; psychiatric patients; mental health personnel; manpower; community service; hospital--community relations; training; patient care; volunteers; geographical sites..Idaho

OM-01818 ROSSELLO, JUAN A., Psychiatric Hosp., Roosevelt, Puerto Rico
adults; family; geographical sites..Puerto Rico; group counselling; hospital-community relations; hospitals outpatients; mental health personnel; mental hospitals; patient care; psychiatric patients; psychotherapy; rehabilitation; day center

OM-01821 HUGHES, LOWELL R., Nevada State Hosp., Reno, Nev.
mental hospitals; hospital--community relations; community service; psychotherapy; psychiatric patients; patient care; consultation; psychologists; social worker; nurses; mental health personnel; geographical sites..Nevada; manpower; hospitals outpatients

OM-01822 DUNAGIN, J.L., Enid State Sch., Enid, Okla.
mental retardation; therapy; training; conditioning.. operant conditioning; sensory deprivation; social organization..institutional organization; children; adults; employment; administrative personnel; self--organization; patient care

OM-01823 BROOKS, DEAN K., Oregon State Hosp., Salem, Ore.
rehabilitation; psychiatric patients; physical therapy; mental hospitals

OM-01824 GERICKE, OTTO L., Patton State Hosp., Patton, Cal.
training; rehabilitation; psychiatric patients; family; community; motivation; hospitals..evaluation center; mental hospitals; schizophrenia; hospitals release

OM-01825 TARJAN, GEORGE, Pacific State Hosp., Pomona, Cal.
mental retardation; children; rehabilitation; self--organization; physical therapy; teaching; behavior rating scales; volunteers; mental hospitals; psychiatric aides

OM-01826 O'BRIEN, WILLIAM M., Modesto State Hosp., Modesto, Cal.
mental hospitals; rehabilitation; psychiatric patients; hospital--community relations; psychotherapy; patient care; social adjustment; community service; training; nurses; mental health personnel; interpersonal behavior; behavior rating scales; therapy evaluation

OM-01827 ADAMS, FREEMAN H., Stockton State Hosp., Stockton, Calif.
mental hospitals; industry; group therapy; rehabilitation; training; group counselling; psychiatric patients

OM-01828 NASH, LOUIS R., Camarillo State Hosp., Camarillo, Cal.
hospital-community relations; community service; mental health; psychiatric patients; patient care; therapy; hospitals personnel; social adjustment; rehabilitation; mental hospitals

OM-01833 KLATTE, ERNEST, Mendocino State Hosp., Talmage, Cal.
mental hospitals; hospitals release; psychiatric patients; rehabilitation; training; motivation; social adjustment; social service; community

OM-01836 GREENBLATT, MILTON, Boston State Hosp., Boston, Mass.
mental hospitals; psychiatric patients; rehabilitation; sheltered employment; occupational therapy; hospital-community relations; community service; hospitals outpatients; mental health personnel; training; halfway house; geographical sites..Massachusetts

OM-01838 SILK, EMANUEL I., Eastern Oregon State Hosp., Pendleton, Ore.
family; hospitals admissions; hospitals release; hospital-community relations; hospitals patients; psychiatric patients; community service; consultation; mental health; mental hospitals

OM-01839 BUSCAGLIA, C.J., Mental Health Center-North Division, Milwaukee, Wis.
hospitals..emergency rooms; mental hospitals; hospitals admissions; social service; patient care

OM-01840 BUSCAGLIA, CHRIS J., Mental Hlth. Ctr.-North Division, Milwaukee, Wis.
day center; mental hospitals; psychiatric patients; group therapy; psychotherapy; occupational therapy; mental health personnel; manpower; consultation; hospital--community relations; community service; travel; geographical sites..Wisconsin

OM-01842 FIEDLER, HOWARD T., Allentown State Hosp., Allentown, Pa.
social adjustment; children..adolescence; psychiatric patients; hospital--community relations; social desirability; self--organization; mental hospitals; vocational guidance; occupational therapy; counselling; attitude; mental health personnel; geographical sites.. Pennsylvania

OM-01844 deRIVAS, CARMELA, Norristown State Hosp., Norristown, Pa.
day center; rehabilitation; psychiatric patients; mental health personnel; mental hospitals; hospital-community relations

OM-01845 MALONE, CHARLES A., Massachusetts Mem. Hospital, Boston, Mass.
social service; family..parent--child; cultural deprivation; socioenvironment..urban areas; socioeconomics..low income groups.. child development; social behavior; social adjustment; consultation; education..nursery schools; communication; community service; geographical sites.. Massachusetts

OM-01847 PHILLIPS, GEORGE M., Crownsville State Hosp., Crownsville, Md.
mental hospitals; psychiatric patients; rehabilitation; education; hospital--community relations; community service; geographical sites..Maryland

OM-01848 PLEASURE, HYMAN, Middletown State Hosp., Middletown, N.Y.
mental hospitals; rehabilitation; psychiatric patients; halfway house; hospitals outpatients; occupational therapy; vocational guidance; sheltered employment; hospital-community relations; mental health personnel; social service; training; hospitals personnel; geographical sites..New York

OM-01851 GOOD, LAWRENCE R., Menninger Fdn., Topeka, Kans.
behavior; environment; psychology; hospitals design; psychiatric patients; education..curriculum

OM-01860 MAZER, MILTON, Martha's Vineyard Guidance Cr., Edgartown, Mass.
community service; mental disorders; alcoholism; illegitimacy; family..divorce; suicide; juvenile delinquency; automobile accidents; statistics; isolation; geographical sites..Massachusetts

OM-01861 RICE, ELIZABETH P., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
social service; children; socioeconomics..low income groups; stress; mental disorders; socioenvironment ..urban areas; community service; interviews; family.. parent--child; socioculture; deprivation

OM-01862 LELAND, HENRY, Parsons State Hosp. and Training Cr., Parsons, Kans.
behavior rating scales; classification; mental retardation; emotional disturbance; rehabilitation; psychiatric patients; interpersonal behavior; social adjustment; therapy evaluation; prediction; training; psychometrics; conferences..workshop; travel; behavioral adjustment

OM-01876 JOHNSTON, ANDREW G., Kennebec Mental Hlth. Assn., Waterville, Me.
mental disorders; children; community service; socioenvironment..rural areas; education..audio--visual aids; consultation; hospitals outpatients; social worker; psychologists; attitude; community; geographical sites..Maine; psychiatrists

OM-01886 DORSCH, GRAYDON, Colorado State Dept. Pub. Hlth., Denver, Colo.
community service; alcoholism; Health Department; mental health personnel; consultation; social adjustment; hospitals outpatients; public health nurses; geographical sites..Colorado; family; information exchange; social worker; manpower

OM-01887 McKAIN, WALTER C., Jr., Univ. Connecticut, Storrs, Conn.
aging; family..marriage; social adjustment; role; community; social status; employment; attitude; interviews; geographical sites..Connecticut; medical records

OM-01889 McNAMARA, VIRGINIA, Georgia Dept. Hlth., Atlanta, Ga.
children; emotional disturbance; questionnaire; teaching; education..elementary education; communication; mental health personnel

OM-01899 HOWARD, ALAN, B.P. Bishop Museum, Honolulu, Hawaii
socioculture; ethnic groups..Hawaiian; cognition; interpersonal behavior; socioeconomics..low income groups; deviant behavior; values; interviews; travel; geographical sites..Hawaii; community

OM-01902 **CALLICRATE, B.L., Oregon Fairview Home, Salem, Ore.**
rehabilitation; mental retardation; mental hospitals; hospital--community relations; community service; geographical sites..Oregon; manpower; psychiatric aides; social worker; vocational guidance; counselling; recreation

OM-01903 **LLOYD-JONES, ESTHER, Teachers Col., Columbia Univ., New York, N.Y.**
counselling; conferences; education..universities; mental health; socioculture; social worker; travel; social psychology

OM-01905 **SCHUMACHER, WILLIAM E., Bureau of Mental Health, Augusta, Maine**
mental retardation; community service; patient care.. home care; public health nurses; social adjustment; nurses; travel; geographical sites..Maine

OM-01906 **HENKEL, RAMON, Col. Arts, Sci., Univ. Maryland, College Park, Md.**
social psychology; public health nurses; attitude; teaching; family..parents; questionnaire; computer analysis

OM-01908 **KLEE, GERALD, University Hosp., Baltimore, Md.**
psychiatric patients; epidemiology; geographical sites ..Maryland; information exchange; mental disorders; computer analysis; computer programming; travel; consultation; mental hospitals; hospitals outpatients; longitudinal study

OM-01914 **GARABEDIAN, PETER G., Col. Sci., Arts, Washington State Univ., Pullman, Wash.**
social change; criminology; rehabilitation; interpersonal behavior; socioenvironment; attitude; separation; classification; behavior rating scales; social psychology; training; mental health personnel; group counselling; role

OM-01915 **MESCHES, LEANORE, Clear Water Ranch Children's House, Inc., Santa Rosa, Cal.**
family therapy; family..parents; siblings; children; schizophrenia; autism; interpersonal behavior

OM-01918 **KIESLER, FRANK, Northland Mental Health Cr., Grand Rapids, Minn..**
mental disorders; epidemiology; information exchange; community service; medical records; socioenvironment.. rural areas; geographical sites..Minnesota

OM-01921 **BLACKBURN, CLARK W., Family Service Assn., New York, N.Y.**
family..marriage counseling; family therapy; information exchange; training; social service; mental health personnel

OM-01922 **HLADKY, FRANK, Tulsa Psychiatric Fdn., Tulsa, Okla.**
mental hospitals; day center; psychotherapy; occupational therapy; vocational guidance; hospitals outpatients; manpower; mental health personnel; geographical sites..Oklahoma

OM-01923 **LILLESKOV, ROY K., James Weldon Johnson Comm. Cr., New York, N.Y.**
community service; emotional disturbance; children.. adolescence; socioenvironment..urban areas; social worker; family..parent--child; education..schools; day center; psychotherapy; physical therapy

OM-01929 **CHICKERING, ARTHUR, Goddard Col., Plainfield, Vt.**
education..universities; education..university students; education..student drop--outs; academic achievement; personality; attitude; religion; socioenvironment; psychological tests; longitudinal study

OM-01934 **GOMBERG, EPHRAIM R., Crime Commission Philadelphia, Philadelphia, Pa.**
criminology; rehabilitation; psychotherapy; communication; court personnel; mental health personnel; decision--making; judgment; therapy evaluation; longitudinal study; cooperative study

OM-01938 **BROCKBANK, T.W., Catholic Charities Counselling Service, N.Y.C.**
emotional disturbance; children; education..schools; teaching; training; mental health; socioeconomics.. low income groups; socioenvironment..urban areas; ethnic groups..Negroes; questionnaire; attitude

OM-01942 **GRAVES, THEODORE D., Institute of Behavioral Science, Univ. Colorado, Boulder, Colo.**
social adjustment; migrants (sociological); success--failure; values; attitude; behavior; socioculture; socioenvironment..urban areas; ethnic groups.. American Indians; interviews; longitudinal study; geographical sites..Colorado; medical records; psychoses

OM-01945 **JACKSON, JAY M., Univ. Oregon, Eugene, Ore.**
mental hospitals; criteria; social organization.. institutional organization; instrumentation--methodology; communication

OM-01947 **ALLEN, RICHARD C., Grad. Sch. Pub. Law, George Washington Univ., Washington, D.C.**
mental retardation; forensic medicine; criminology; publications..literature survey; survey

OM-01950 **SWANDER, CONSTANCE N., Good Samaritan Cr., San Antonio, Tex.**
education..nursery schools; community service; children..preschool; social adjustment; socioeconomics.. low income groups; semantics..language; communication; socioculture; geographical sites..Texas; ethnic groups ..Mexican--Americans; socioenvironment..urban areas

OM-01953 **SIELKE, EUGENE L., Philadelphia State Hosp., Philadelphia, Pa.**
rehabilitation; psychiatric patients; community service; hospital--community relations; volunteers; mental health personnel; counselling; training; socioenvironment; mental hospitals; interpersonal behavior; social adjustment; geographical sites.. Pennsylvania; travel

OM-01955 **FOX, VERNELLE, Georgia Dept. Pub. Hlth., Atlanta, Ga.**
alcoholism; community service; rehabilitation; public health; manpower; mental health personnel; administrative personnel; hospitals personnel; training; hospitals administration; hospitals utilization; hospitals space; hospital--community relations; geographical sites..Georgia

OM-01957 **KOLB, LAWRENCE C., New York State Psychiatric Inst., New York, N.Y.**
hospitals planning; psychiatric patients; patient care; community service; geographical sites.. New York

OM-01959 **NEWELL, BERNARD A., Laurelton State Sch., Hosp., Laurelton, Pa.**
mental retardation; rehabilitation; social service; vocational guidance; social adjustment; counselling; family; social worker; manpower; mental hospitals; hospital--community relations; geographical sites.. Pennsylvania

OM-01960 **KLEPFER, J., Richmond State Hosp., Richmond, Ind.**
community service; social service; mental hospitals; hospital--community relations; hospitals admissions; patient care; psychiatric patients; family; social adjustment; social worker; counselling; physicians; nursing homes; hospitals outpatients; geographical sites..Indiana

OM-01961 **WILLIAMS, C.L., Central State Hosp., Indianapolis, Ind.**
psychiatric patients; children..adolescence; rehabilitation; behavioral adjustment; education.. sepecial classes; occupational therapy; recreation; manpower; mental health personnel; community service; mental hospitals; geographical sites.. Indiana

OM-01962 **FOGEL, ERNEST J., Logansport State Hosp., Logansport, Ind.**
schizophrenia; aging; rehabilitation; sheltered employment; self--concept; interpersonal behavior; group work; social adjustment; community service; problem solving

OM-01963 **ENGLISH, HAROLD M., Eastern Shore State Hosp., Cambridge, Md.**
aging; arteriosclerosis; rehabilitation; physical therapy; recreation; patient care; community service; social service

OM-01964 **SIKES, WALTER A., Dorothea Dix Hosp., Raleigh, N.C.**
rehabilitation; physical therapy; therapy evaluation; psychiatric patients; patient care

OM-01965 **SPRATT, ROBERT J., Napa State Hosp., Imola, Cal.**
rehabilitation; psychiatric patients; community service; mental hospitals; social adjustment; manpower; social worker; mental health personnel; hospitals release; halfway house; psychotherapy; geographical sites..California

OM-01967 **ANDERSON, MILTON H., Evansville State Hosp., Evansville, Ind.**
psychiatric patients; rehabilitation; sheltered employment; training; community service; hospitals outpatients; halfway house; employment

OM-01968 **GARDNER, BILLIE L., Winfield State Hosp. and Training Cr., Winfield, Kans.**
speech disorders; ear disorders; mental retardation; handicapped children; therapy evaluation; diagnostic tests

OM-01969 **RIDDLE, J. IVERSON, Western Carolina Cr., Morganton, N.C.**
therapy evaluation; mental retardation; handicapped children; physical therapy; social adjustment; teaching machine; psychotropic drugs; social worker; family..parents; interpersonal behavior

OM-01970 **McKEE, JOHN S., Jr., Broughton Hosp., Morganton, N.C.**
psychiatric patients; rehabilitation; patient care; consultation; mental health personnel; social worker; hospital--community relations; mental hospitals; hospitals administration; community service; geographical sites..North Carolina; hospitals planning

OM-01972 **McLENDON, SOL B., Palmetto State Hosp., Columbia, S.C.**
rehabilitation; social adjustment; psychiatric patients; hospitals release; vocational guidance; recreation; mental health personnel; manpower; psychiatrists; social worker; psychiatric aides; hospital--community relations; mental hospitals; geographical sites..South Carolina

OM-01977 **BUNNELL, HARRIS F., Eastern State Hosp., Medical Lake, Wash.**
rehabilitation; psychiatric patients; community service; mental hospitals; hospital--community relations; manpower; mental health personnel; nurses; social worker; counselling; family; social adjustment; patient care; hospitals outpatients; geographical sites..Washington

(contd)

MENTAL HEALTH PROJECT GRANTS REVIEW COMMITTEE (CONTD)

OM-01982 HORLICK, REUBEN S., D.C. Dept. Corrections, Lorton, Va.
drugs addiction; rehabilitation; therapy; survey; travel

OM-01987 CURRAN, WILLIAM J., Boston Univ., Boston, Mass.
conferences; alcoholism; forensic medicine

OM-01994 RUDIN, EDWARD, California State Dept. Mental Hygiene, Sacramento, Cal.
mental health; community service; education; consultation; statistics; travel; interviews; publications.. literature survey

OM-01999 FANSHEL, DAVID, Arthur Lehman Counseling Serv., New York, N.Y.
social service; counselling; communication; psycholinguistics; cognitive dissonance; social worker; interviews recording

OM-02006 BEKER, JEROME, Syracuse Univ., Syracuse, N.Y.
juvenile delinquency; children..adolescence; therapy; social adjustment; rehabilitation; training; child care personnel; authority; interpersonal behavior; social organization..institutional organization; publications..handbook

OM-02007 SAMUELSON, A.F., State Psychiatric Clinic, Bismarck, N.D.
juvenile delinquency; rehabilitation; community service; survey; travel

OM-02009 BRUYN, HENRY B., Cowell Mem. Hosp., Univ. California, Berkeley, Cal.
conferences..workshop; alcoholism; education.. university students; student health services; preventive medicine; publications..monograph; geographical sites..California

OM-02010 THELEN, HERBERT A., Sch. Educ., Univ. Chicago, Chicago, Ill.
education..special classes; children; deprivation; socioculture; academic achievement; behavioral adjustment; emotional disturbance; interpersonal behavior; interviews recording; performance

OM-02012 CHOPE, HAROLD D., San Mateo County Courthouse, Redwood City, Cal.
mental health; communication; education..audio--visual aids; community service; information exchange; administrative personnel; consultation; conferences..workshop

OM-02020 PARAD, HOWARD J., Sch. Soc. Work, Smith Col., Northampton, Mass.
emotional crisis; mental health; family; social service; community; questionnaire; survey; travel

OM-02025 NAGLER, BENEDICT, Lynchburg Training Sch. and Hosp., Colony, Virginia
recreation; social adjustment; psychiatric patients; mental hospitals; motivation; rehabilitation; mental health personnel; manpower; geographical sites.. Virginia

OM-02026 NAGLER, BENEDICT, Lynchburg, Training Sch. and Hosp., Colony, Va.
training; sheltered employment; rehabilitation; mental retardation; social adjustment; education; diagnostic tests; therapy evaluation

OM-02029 FOX, WALTER, Central Hosp., Anchorage, Ky.
diagnostic tests; psychotherapy; emotional disturbance; children..adolescence; medical facilities planning; recreation; occupational therapy; education..elementary education; hospitals patients

OM-02030 DOWNING, BILLIE R., Outwood State Hosp. and Sch., Dawson Springs, Ky.
rehabilitation; mental retardation; social adjustment; community; education; mental hospitals; geographical sites..Kentucky

OM-02031 ZARZAR, NAKHLEH P., John Umstead Hosp., Butner, N.C.
patient care; psychotherapy; rehabilitation; community service; training; epidemiology; mental disorders; hospitals personnel; diagnostic tests; medical facilities planning

OM-02035 ALDERSTEIN, ARTHUR M., New Jersey State Dept. Inst., Agencies, Trenton, N.J.
attitude; psychiatric patients; hospitals admissions; mental hospitals; interviews; statistics; hospitals planning; mental retardation; community service; geographical sites..New Jersey; longitudinal study

OM-02036 PREMACK, DAVID, Col. Arts, Sci., Univ. Missouri, Columbia, Mo.
research programs; behavioral adjustment; social behavior; psychiatric patients; mental hospitals; hospitals..psychiatric wards; reinforcement; rewards and nonrewards; television; computer analysis; psychiatric aides; tranquilizers; verbal behavior

OM-02037 CHITTICK, RUPERT A., Vermont State Hosp., Waterbury, Vt.
mental hospitals; hospitals planning; education; rehabilitation; occupational therapy; patient care; psychiatric patients; hospitals administration; hospitals personnel; manpower; social organization ..institutional organization; geographical sites.. Vermont; community service

OM-02042 ISRAEL, ROBERT H., Warren State Hosp., Warren, Pa.
emotional disturbance; children..adolescence; mental hospitals; social adjustment; self--organization; education..special classes; manpower; mental health personnel; psychologists; social worker; psychiatric aides; hospital--community relations; family therapy; geographical sites..Pennsylvania

OM-02045 SOAR, ROBERT S., Col. Educ., Temple Univ., Philadelphia, Pa.
education..schools; child development; social adjustment; intelligence; learning; psychological tests; creativity

OM-02049 DONAHUE, GEORGE T., Board Education, New Rochelle, N.Y.
rehabilitation; children; schizophrenia; education.. schools; community service; volunteers; teaching; travel

OM-02051 CONNOR, ANGIE, Waimano Training Sch., Hosp., Pearl City, Hawaii
hospital--community relations; mental hospitals; mental retardation; group therapy; psychotherapy; vocational guidance; occupational therapy; training; self--organization; social adjustment; rewards and nonrewards; mental health personnel; manpower; community service; geographical sites..Hawaii

OM-02053 GILIBERTY, FRANK R., Southbury Training Sch., Southbury, Conn.
mental retardation; community service; rehabilitation; social adjustment; mental health personnel; social worker; recreation; socioenvironment; interpersonal behavior; mental hospitals; geographical sites.. Connecticut

OM-02057 DOLNICK, BERNARD, Fort Wayne State Sch., Fort Wayne, Ind.
mental retardation; children; training; vocational guidance; social adjustment; education..audio--visual aids; education..special classes; mental hospitals; manpower; community service; hospital--community relations; geographical sites..Indiana; mental health personnel

OM-02058 BOWMAN, KARL M., Alaska Psychiatric Inst., Anchorage, Alaska
children..adolescence; mental disorders; rehabilitation; psychotherapy; education; recreation; hospitals..psychiatric wards; mental hospitals; mental health personnel; manpower; community service; consultation; family..parent--child; geographical sites..Alaska

OM-02060 HARRIGAN, WILLIAM L., Mount Pleasant State Home, Mount Pleasant, Mich.
mental retardation; training; habit; self--organization; behavioral adjustment; conditioning; reinforcement; rewards and nonrewards; nurses; patient care; manpower; mental health personnel; geographical sites..Michigan; mental hospitals

OM-02061 WILLIAMS, T. GLYNE, Rosewood State Hosp., Owings Mills, Md.
mental retardation; children; rehabilitation; training; teaching; recreation; child care; music therapy; social adjustment; mental health personnel; manpower; psychiatric aides; geographical sites.. Maryland; mental hospitals; community service

OM-02062 McATEE, OTT B., Madison State Hosp., Madison, Ind.
rehabilitation; aging; psychiatric patients; hospitals..psychiatric wards; mental hospitals; physical therapy; community service; patient care; hospital--community relations; mental health personnel; manpower; geographical sites..Indiana

OM-02063 ADKINS, GALEN H., Cambridge State Sch., Hosp., Cambridge, Minn.
rehabilitation; mental retardation; epilepsy; children..adolescence; interpersonal behavior; social adjustment; mental hospitals; community service; hospital--community relations; manpower; mental health personnel; psychotherapy; counselling; occupational therapy; recreation; geographical sites..Minnesota

OM-02067 MANGUM, VERNON, O'Berry Cr., Goldsboro, N.C.
rehabilitation; mental retardation; manpower; social worker; psychologists; mental hospitals; community service; hospital--community relations; geographical sites..North Carolina; hospitals admissions

OM-02068 WERNERT, JOHN J., Jr., Frankfort State Hosp., Sch., Frankfort, Ky.
mental retardation; training; recreation; motivation; morale; hospital--community relations; patient care; manpower; mental health personnel; mental hospitals; geographical sites..Kentucky

OM-02069 KRAFT, ALAN M., Fort Logan Mental Hlth. Cr., Fort Logan, Colo.
mental hospitals; psychotherapy; psychiatric patients; patient care; therapy evaluation; hospital--community relations; community service; hospitals admissions; hospitals outpatients; manpower; mental health personnel; geographical sites..Colorado

OM-02070 GOYNE, JAMES B., New Jersey State Hosp., Trenton, N.J.
emotional disturbance; children; rehabilitation; group therapy; community service; mental hospitals; manpower; mental health personnel; social worker; psychiatrists; social adjustment; geographical sites ..New Jersey

OM-02071 RUSSELL, FRANCIS W., State Colony, New Lisbon, N.J.
rehabilitation; mental retardation; mental hospitals; longitudinal study; manpower; mental health personnel; administration; recreation; social adjustment; physical therapy; hospitals planning; community service; geographical sites.. New Jersey; hospital--community relations; sex difference

OM-02072 COHN, JESS V., Springfield State Hosp., Sykesville, Md.
rehabilitation; psychiatric patients; day center; mental hospitals; socioenvironment..rural areas; therapy evaluation; chemotherapy; psychotherapy; manpower; mental health personnel; hospital--community relations; community service; geographical sites..Maryland

OM-02073 RAND, CHARLES C., Grafton State Sch., Grafton, N.D.
mental hospitals; mental retardation; hospitals outpatients; diagnostic tests; therapy; rehabilitation; consultation; social service; hospital--community relations; communication; mental health personnel; manpower; geographical sites.. North Dakota; travel

OM-02074 LUND, J. BENJAMIN, Minnesota Security Hosp., St. Peter, Minn.
mental hospitals; role; rehabilitation; psychiatric patients; mental disorders; criminology; community service; hospital--community relations; mental health personnel; manpower; occupational therapy; education; programmed learning; music therapy; recreation; social adjustment; training; geographical sites..Minnesota

OM-02075 O'NEILL, FRANCIS J., Central Islip State Hosp., Central Islip, N.Y.
alcoholism; hospitals patients; rehabilitation; orientation; education..audio--visual aids; recreation; vocational guidance; counselling; psychotherapy

OM-02076 SPENCER, ROBERT S., Hawaii State Hosp., Kaneohe, Hawaii
social adjustment; psychiatric patients; mental hospitals; rehabilitation; education; vocational guidance; hospital--community relations; manpower; mental health personnel; patient care; consultation; travel; geographical sites..Hawaii; social service

OM-02078 PARNICKY, JOSEPH J., E.R. Johnstone Tr., Res. Cr., Bordentown, N.J.
rehabilitation; mental retardation; children; mental hospitals; child care personnel; mental health personnel; socioeconomics..housing; social adjustment; recreation; manpower; community service; hospital--community relations; geographical sites.. New Jersey

OM-02080 POMEROY, J.M., Fairview Hosp., Training Cr., Salem, Ore.
mental retardation; children; rehabilitation; manpower; mental health personnel; training; recreation; education; social adjustment; community service; mental hospitals; hospital--community relations; geographical sites.. United States

OM-02081 BUCKMAN, CHARLES, Kings Park State Hosp., Kings Park, N.Y.
rehabilitation; emotional disturbance; children.. adolescence; education; vocational guidance; mental hospitals; mental health personnel; manpower; teaching; community service; hospital--community relations; geographical sites..New York

OM-02082 REUSS, EMERY E., Waukesha County Hosp., Waukesha, Wis.
rehabilitation; psychiatric patients; psychotherapy; patient care; emotional disturbance; community service; hospital--community relations; manpower; mental health personnel; geographical sites..Wisconsin; diagnostic tests; mental hospitals

OM-02084 STOCKBURGER, JOHN C., Arkansas State Hosp., El Dorado, Ark.
community service; mental health; hospital--community relations; attitude; public opinion; education; rehabilitation; vocational guidance; diagnostic tests; patient care; mental hospitals; mental health personnel; psychotherapy; consultation; psychiatric patients; geographical sites.. Arkansas

OM-02085 TABER, MERLIN, Sch. Soc. Work, Univ. Illinois, Urbana, Ill.
public opinion; attitude; mental hospitals; hospitals planning; hospital--community relations; community service; therapy; mental disorders; emotional disturbance; psychiatric patients; geographical sites..Illinois; interviews; hospitals release

OM-02088 HILL, LAWRENCE A., Sch. Business Admin., Univ. Michigan, Ann Arbor, Mich.
patient expenses; cost; patient care; psychiatric patients; mental hospitals; medical economics; travel; computer analysis

OM-02089 PASEWARK, RICHARD A., Univ. Wyoming, Laramie, Wyo.
career; mental health; experience; employment; adults; education..secondary education; interests; attitude; personality

OM-02090 SIMSARIAN, FRANCES P., Sch. Soc. Work, Howard Univ., Washington, D.C.
social adjustment; children; ethnic groups..Negroes; experience; foster homes; education..schools; social integration; interviews; socioenvironment.. urban areas; geographical sites..District of Columbia; socioenvironment..rural areas; geographical sites.. Virginia

OM-02092 HERRMANN, WILLIAM W., Los Angeles City Police Dept., Los Angeles, Cal.
decision--making; criminology; court personnel; administrative personnel; information exchange; documentation systems; statistics; consultation; communication; social adjustment; geographical sites.. California

OM-02101 VOORHEES, WILLIAM D., Jr., Northern State Hosp., Sedro Woolley, Wash.
patient care; psychiatric patients; aging; mental hospitals; community service; hospital--community relations; rehabilitation; manpower; mental health personnel; occupational therapy; halfway house; geographical sites..Washington

OM-02103 GREENBLATT, MILTON, Boston State Hosp., Boston, Mass.
mental hospitals; hospital--comunity relations; community service; administrative personnel; manpower; mental health personnel; orientation; rehabilitation; geographical sites..Massachusetts

OM-02104 MAHONEY, MARY K., Maine Med. Cr., Portland, Me.
community service; homemaker service; mental health; social worker; manpower; mental disorders; psychotherapy; geographical sites..Maine; psychoses; family

OM-02113 ANSTREICHER, KURT, Delaware State Hosp., New Castle, Del.
rehabilitation; mental hospitals; psychiatric patients; day center; hospitals outpatients; hospital--community relations; psychotherapy; family therapy; geographical sites..Delaware; manpower; mental health personnel; psychiatrists; social worker; occupational therapy; recreation

OM-02115 WINDHAM, GERALD O., Col. Arts, Sci., Mississippi State Univ., State College, Miss.
alcoholism; community service; education..schools; adults; children..adolescence; information exchange; documentation systems; public health; attitude; travel; geographical sites..Mississippi

OM-02121 POLSKY, HOWARD W., Hawthorne Cedar Knolls Sch., Hawthorne, N.Y.
child care; children..adolescence; emotional disturbance; juvenile delinquency; rehabilitation; community service; role; social adjustment; interpersonal behavior; education..schools; mental health personnel; peer group; socioenvironment

OM-02127 SCHEIBE, KARL E., Wesleyan Univ., Middletown, Conn.
social adjustment; psychiatric patients; interpersonal behavior; adults; personality; behavior rating scales; mental hospitals; psychiatric aides; computer analysis

OM-02130 BIRNBRAUER, JAY S., Sch. Arts, Sci., Univ. North Carolina, Chapel Hill, N.C.
mental retardation; children; teaching; mental hospitals; training; mental health personnel; rehabilitation; patient care; interpersonal behavior; social behavior; behavior rating scales; programmed learning

OM-02131 NISONGER, HERSCHEL W., American Assn. on Mental Deficiency, Columbus, Ohio
conferences..workshop; mental retardation; patient care; rehabilitation; training; administrative personnel; information exchange; travel

OM-02159 CARTER, PHIL, Los Lunas Hosp., Training Sch., Los Lunas, N.M.
medical services; mental hospitals; rehabilitation; patient care; children; mental retardation; manpower; medical personnel; mental health personnel; hospitals personnel; dental personnel; geographical sites.. New Mexico

OM-02160 WILDBERGER, WILLIAM C., Woodward State Hosp., Woodward, Iowa
mental retardation; hospitals..evaluation center; mental hospitals; neuropsychological tests; patient care; mental health personnel; medical personnel; hospitals personnel; vocational guidance; manpower; rehabilitation; community service; communicative disorders; geographical sites..Iowa

OM-02167 ROOS, PHILIP, Austin State Sch., Austin, Tex.
mental retardation; rehabilitation; mental hospitals; family..parents; hospital--community relations; administrative personnel; mental health personnel; education..special classes; travel; geographical sites..Texas; manpower; social adjustment; hospitals..evaluation center; volunteers

OM-02205 SPAULDING, ROBERT W., Indiana Dept. Mental Hlth., Indianapolis, Ind.
mental retardation; community service; administration; mental hospitals; consultation; travel

OM-02209 MOSS, FENTON E., Grad. Sch. Social Work, Univ. Utah, Salt Lake City, Utah
alcoholism; cost; patient care; community service; geographical sites..United States

OM-02221 BREWER, JOSEPH H., Assn. of Directors Community Mental Hlth. Crs. Kansas, Inc., Wichita, Kans.
mental hospitals; community service; hospital--community relations; rehabilitation; mental retardation; emotional disturbance; children; adults; travel; consultation; hospitals administration

LISTING OF GENERAL RESEARCH AREAS

MENTAL HEALTH PROJECT GRANTS REVIEW COMMITTEE (CONTD)

OM-02225 BENNETT, ROBERT E., New Jersey Neuro-Psychiatric Inst., Princeton, N.J.
drugs addiction: community service: mental hospitals; hospital--community relations; psychotherapy; occupational therapy; patient care; rehabilitation; consultation; education; manpower; mental health personnel; geographical sites..New Jersey

OM-02235 PLUNKERT, WILLIAM, Community Council Greater New York, New York, N.Y.
alcoholism; rehabilitation; therapy evaluation; community service; criteria

OM-02236 BEARD, BELLE B., Univ. Georgia, Athens, Ga.
aging; longevity; documentation systems; survey; publications..literature survey; geographical sites; social adjustment

OM-02302 BOWMAN, PAUL H., Community Studies, Inc., Kansas City, Mo.
emotional disturbance; children; teaching; education.. elementary education; behavioral adjustment; training; administrative personnel; interpersonal behavior

OM-02303 BOWMAN, PAUL H., Community Studies, Inc., Kansas City, Mo.
education..elementary education; emotional disturbance; teaching; conferences..workshop; interpersonal behavior; geographical sites..United States; juvenile delinquency

OM-02331 MARIANI, EUGENE L., New Mexico Dept. Pub. Hlth., Santa Fe, N. Mex.
publications..monograph; mental health; consultation; community service; geographical sites..United States

MENTAL HEALTH SMALL GRANTS

MH-08316 NASH, DENNISON J., Univ. Connecticut, Storrs, Conn.
social behavior; migrants (sociological); personality; role; socioculture; ethnic groups..Americans; geographical sites..Europe; social adjustment

MH-08392 ELONEN, ANNA S., Children's Psy. Hosp., Univ. Michigan Med. Cr., Ann Arbor, Mich.
adults; computer analysis; infants (human); intelligence; intelligence tests; longitudinal study; prediction

MH-08636 HESS, ROBERT D., Univ. Chicago, Chicago, Ill.
pulmonary emphysema; psychophysiology; orientation; pulmonary function; stress; interviews; thematic apperception test; hospitals outpatients; basal metabolism; adults

MH-08650 MARTIN, RANDALL B., Northern Illinois Univ., DeKalb, Ill.
adults; attention; audiostimulus; cognition; conditioning.. avoidance; electroshock; galvanic skin response; learning..mediation; memory-retention; visual stimulus

MH-08660 MIKAWA, JAMES K., Austin Community Guidance Cr., Austin, Tex.
adoption; aggression; anxiety; attitudes; behavior; behavior rating scales; children; family..parent-child; fantasy; interviews; performance; questionnaire; self-concept

MH-08666 ORPET, RUSSEL E., California State Col., Long Beach, Cal.
intelligence tests; children; education..elementary education; criteria; memory--retention; cognition; statistics

MH-08960 BADIA, PIETRO, Col. Liberal Arts, Bowling Green State Univ., Bowling Green, Ohio
conditioning..avoidance; electroshock; stimulus; reinforcement; frustration; rewards and nonrewards

MH-08966 ERLEBACHER, ALBERT, Col. Lieberal Arts, Northwestern Univ., Evanston, Ill.
mental processes; conditioning; concept; identification; discrimination; learning..mediation; stimulus generalization

MH-08994 ABU-LABAN, BAHA R., Sch. Arts, Sci., American Univ. of Beirut, Beirut, Lebanon
geographical sites..Asia; community; leadership; social change

MH-10026 CROWDER, WILLIAM F., Col. Liberal Arts, Univ. Mississippi, University, Miss.
behavior; reinforcement; conditioning; morphine; drugs addiction; audiostimulus

MH-10063 VOLDENG, A. NELSON, Univ. Arkansas Med. Cr., Little Rock, Ark.
tranquilizers; phenothiazines; synthesis; chemical structure--biological activity; disulfides

MH-10116 JOHNSON, JOHN I., Jr., Michigan State Univ., East Lansing, Mich.
brain; sensory mechanisms; behavior; ontogeny

MH-10141 ROSNOW, RALPH L., Sch. Pub. Rel., Com., Boston Univ., Boston, Mass.
communication; public opinion; verbal behavior; rewards and nonrewards; reinforcement; questionnaire; interviews; attitudes

MH-10197 KENT, NEIL D., Grinnel Col., Grinnel, Iowa
sex behavior; experience; adults; isolation; infant animals; species

MH-10199 PREHM, HERBERT J., Col. Educ., Univ. Wisconsin, Madison, Wis.
learning..association learning; memory--retention; mental retardation; children; psychological tests

MH-10201 BYERS, JOE L., Col. Letters, Sci., Univ. California, Berkeley, Cal.
concept; decision-making; discrimination; experimental psychology; skills

MH-10260 STORM, THOMAS, Univ. British Columbia, Vancouver, B.C., Canada
concept; learning..mediation; ethnic groups.. American Indians; ethnic groups..whites; cues; teaching; sociocultural; geographical sites..Canada

MH-10267 BEIER, ERNST G., Col. Letters, Sci., Univ. Utah, Salt Lake City, Utah
psycholinguistics; speech; perception; children; psychometrics; mental disorders; judgment; adults

MH-10320 SIEGEL, PAUL S., Col. Arts, Sci., Univ. Alabama, University, Ala.
behavioral adjustment; emotional disturbance; children; learning; rewards and nonrewards; interpersonal behavior ..cooperation; psychological tests

MH-10409 BOUSFIELD, WESTON A., Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.
learning..association learning; learning..sequential learning; memory--retention; semantics..language; psychometrics; statistics

MH-10415 EDWARDS, DAVID C., Col. Sci., Humanities, Iowa State Univ., Ames, Iowa
learning..association learning; memory--retention; cognition; discrimination; visual stimulus; adults

MH-10418 ISHIYAMA, TOARU, Cleveland State Hosp., Cleveland, Ohio
concept; role; psychiatric patients; psychiatric aides; expectancy; interpersonal behavior; behavior rating scales; personality; sex difference; ethnic groups..race

MH-10506 UHL, CHARLES N., Col. Letters, Sci., Univ. Utah, Salt Lake City, Utah
discrimination; conditioning..avoidance; rewards and nonrewards; behavior; learning

MH-10510 MARSHALL, GEORGE R., Bell Telephone Laboratories, Inc., Murray Hill, N.J.
learning..association learning; learning..mediation; memory--retention; verbal behavior; concept

MH-10514 KILDAHL, JOHN P., Lutheran Med. Cr., Brooklyn, N.Y.
psycholinguistics; verbal behavior; religion; mental health; ego; glossolalia

MH-10519 PATTON, SELMA H., Col. Arts, Sci., Louisiana Polytechnic Inst., Ruston, La.
lipids..serum lipids; children; mental retardation; fatty acids; triglycerides; cholesterol; phospholipids; steroids

MH-10521 STOUT, JOHN F., Walla Walla Col., College Place, Wash.
social behavior; communication; audiostimulus; visual stimulus

MH-10529 PHILLIPS, JAMES D., Jr., Sch. Arts, Sci., Arlington State Col., Arlington, Tex.
reinforcement; exploratory behavior; electroshock; conditioning, operant conditioning

MH-10530 STEVENS, DAVID A., Col. Arts, Letters, Sci., Univ. Oregon, Eugene, Ore.
learning; discrimination; memory--retention; stress; problem solving; strychnine; genetic strains

MH-10532 FRIEDMAN, HERBERT, Col. William and Mary, Williamsburg, Va.
discrimination; learning..mediation; visual stimulus; sensory feedback; adults

MH-10538 WINNICK, WILMA A., Queens Col. , City Univ. New York, Flushing, N.Y.
learning..association learning; memory-retention; cognition; threshold

MH-10543 McPHEE, WILLIAM N., Inst. Behavioral Sci., Univ. Colorado, Boulder, Colo.
learning; feeding behavior; obesity; fasting; body weight; mathematical models; habit; emotional reactions

MH-10551 JENNESS, ARTHUR, Williams Col., Williamstown, Mass.
hypnosis; personality; imagery; anxiety; cognition; perception; psychometrics

MH-10555 GALINSKY, MAEDA J., Sch. Social Work, Univ. Michigan, Ann Arbor, Mich.
deviant behavior; children; education..schools; attitude; behavioral adjustment; social service; group work; academic achievement; self-organization; behavior rating scales; questionnaire

MH-10565 KIRMAN, JACOB H., Queens College, Flushing, N.Y.
psychophysiology; conditioning; arousal; attention; potentials; reinforcement; orientation

MH-10567 PODELL, LAWRENCE, New York City Dept. Welfare, New York, N.Y.
children; emotional disturbance; geographical sites.. West Indies; epidemiology; family..parents; social psychology

MH-10578 WHITEMAN, MARTIN, Columbia Univ. Sch. Social Work, N.Y.C.
concept; child development; interviews recording; social adjustment; socioeconomics..low income groups; socioenvironment..urban areas; intelligence; experience; psychometrics

MH-10584 KLEMM, WILLIAM R., Col. Vet. Med., Iowa State Univ., Ames, Iowa
electroencephalography; emotional reactions; muscle relaxation; brain..subcortical structures; nervous system..cutaneous sensory nerves

MH-10585 WILSON, WARNER R., Univ. Hawaii, Honolulu, Hawaii
social psychology; choice behavior; interpersonal behavior..competition; interpersonal behavior cooperation; games; perception; stimulus; time

MH-10586 **LEE, S.C.**, Col. Arts, Sci., Univ. South Dakota, Vermillion, S.D.
socioculture; community; identity; authority; social organization; mental health; separation; ethnic groups..Hutterites; geographical sites.. South Dakota; interviews; questionnaire

MH-10587 **KOBAYASHI, YUTAKA**, Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
enzyme inhibitors..monoamine oxidase inhibitors; radiolabeled carbon; schizophrenia; stimulants.. antidepressants; criteria

MH-10592 **BEALS, ALAN R.**, Sch. Humanities, Stanford Univ., Stanford, Cal.
disease classification; concept; conflict; socioculture; semantics..language; criteria; communication; ethnic groups..American Indians

MH-10600 **HOMMEL, LEONARD S.**, California State Col., Long Beach, Cal
exploratory behavior; drive; cues; stimulus; reinforcement; hunger; thirst; arousal

MH-10610 **SMITH, M. BREWSTER**, Grad. Sch., Univ. California, Berkeley, Cal.
attitude; interpersonal behavior; values; stimulus; ethnic groups..whites; ethnic groups.. Negroes; ethnic groups..Jewish; ethnic groups.. race; religion; social status; children.. adolescence

MH-10612 **HOUSTON, JOHN P.**, Col. Letters, Sci., Univ. California, Los Angeles, Cal.
learning..association learning; learning sequential learning; discrimination; stimulus, memory--retention; experience

MH-10614 **KATZ, EVELYN W.**, Inst. Communications Res., Univ. Illinois, Urbana, Ill.
interpersonal behavior; classification; semantics language; communication; role; motivation; socioculture; psychometrics

MH-10627 **COWAN, PHILIP A.**, Col. Letters, Sci., Univ. California, Berkeley, Cal.
cognition; child development; performance; problem solving; concept; psychometrics; criteria

MH-10628 **DE LEON, GEORGE**, Staten Island Mental Hlth., Soc., Staten Island, N.Y.
psychophysiology; blood pressure; stress; conditioning ..operant conditioning; conditioning..avoidance; conditioning..extinction; electroshock; visual stimulus; adults

MH-10634 **SPECTOR, ELLIOT**, Col. Pharm., Northeastern Univ., Boston, Mass.
mescaline; hallucinogens; indoles; toxicology; nervous system..central nervous system

MH-10638 **REYNOLDS, JAMES H.**, Col. Liberal Arts, Hamilton, N.Y.
learning..association learning; learning..mediation; concept; sensory feedback

MH-10648 **PORTER, JOHN J.**, Univ. Wisconsin, Milwaukee, Wis.
conditioning..avoidance; conditioning..extinction; electroshock; audiostimulus; reinforcement; rewards and nonrewards

MH-10650 **CHESTEEN, HILLIARD E., Jr.**, Sch. Soc. Welfare, Louisiana State Univ., Baton Rouge, La.
social organization..institutional organization; administrative personnel; child care personnel; employment..job satisfaction; attitude; environment; juvenile delinquency; nursing homes; community service

MH-10651 **WATSON, JOHN S.**, Merrill-Palmer Inst., Detroit, Mich.
eye movements; visual fixation; infant human; conditioning..operant conditioning; conditioning extinction; reinforcement; audiostimulus; visual stimulus; discrimination

MH-10656 **NOBLE, ERNEST P.**, Stanford Univ. Med. Sch., Palo Alto, Cal.
catecholamines; serotonin; brain; DOPA; dopamine; norepinephrine; epinephrine; 5--hydroxytryptophan; decarboxylases..DOPA decarboxylase; enzyme inhibitors; emotional reactions; exploratory behavior; conditioning..avoidance; infant animals; fetus

MH-10660 **BEACH, LESLIE R.**, Col. Educ., Hope College, Holland, Mich.
personality; education, university students; socioculture; religion; social adjustment; maturity; sex differences; longitudinal study

MH-10661 **ALLISON, JOEL**, Sch. Med., Yale Univ., New Haven, Conn.
personality; religion; experience; emotional reactions; self--concept; values; authority; socioenvironment; psychological tests; interviews recording

MH-10665 **STEIN, MARVIN**, Cornell University Med. Col., N.Y.C.
asthma; infant animals; handling; separation; social space; allergens; ovalbumin; pulmonary airway resistance; lung volume

MH-10667 **SCHNEIDER, ALLEN M.**, Col. Arts, Sci., New York Univ., New York, N.Y.
spreading depression; interhemispheric transfer; memory--retention; brain..cerebral cortex; learning; conditioning..extinction; reinforcement; rewards and nonrewards; electroshock

MH-10669 **SHADER, RICHARD I.**, Massachusetts Mental Hlth. Ctr., Boston, Mass.
social adjustment; psychiatric patients; hospitals; psychiatric wards; interpersonal behavior; nurses; attitude; behavior rating scales; social desirability; performance; occupations; prediction; hospitals out-patients; interviews; longitudinal study

MH-10675 **HENKER, BARBARA A.**, Col. Educ., Ohio State Univ., Columbus, Ohio
electroshock; psychiatric patients; therapy evaluation; behavioral adjustment; expectancy; psychiatrists; physician--patient relationship; mental hospitals; behavior rating scales; interviews; questionnaire; psychological tests

MH-10688 **FISCHER, ANN.**, Sch. Social Work, Tulane Univ., New Orleans, La.
social organization; family, parent--child; children; sex difference; authority; identity; socioculture; socioeconomics; ethnic groups..Negroes; interviews; geographical sites..Louisiana

MH-10690 **KLEINER, ROBERT J.**, Col. Liberal Arts, Temple Univ., Philadelphia, Pa.
mental disorders; ethnic groups..Negroes; identity; attitude; self--concept; goal--striving behavior; social status; questionnaire

MH-10700 **TUCKER, IRVING F.**, Col. Liberal Arts, Louisiana State Univ., New Orleans, La.
learning..association learning; conditioning..verbal conditioning; vocalization; time; response; reinforcement; training

MH-10707 **FISCHER, GLORIA J.**, Univ. South Florida, Tampa, Fla.
form perception; learning; experience; time; sensory deprivation; photosensitivity; discrimination

MH-10711 **HARRIS, CHARLES S.**, Col. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.
visual perception; orientation; visual feedback; optical aids..prism spectacles; body position; body image; head movement; limbs movement

MH-10726 **KRYSTAL, HENRY**, Detroit Receiving Hosp., Detroit, Mich.
conferences..workshop; trauma; emotional reactions; psychotherapy; therapy evaluation; rehabilitation; diagnostic tests; hospitals..day hospital

MH-10743 **MALOTT, RICHARD W.**, Denison Univ., Granville, Ohio
stimulus generalization; experience; sensory deprivation; response; photostimulus; discrimination; behavior; reinforcement; perception; training

MH-10745 **POLLIS, NICHOLAS P.**, Grad. Sch., Oklahoma State Univ., Stillwater, Okla.
social psychology; interpersonal behavior; judgment; conditioning; stress; autokinetic effect

MH-10746 **EXLINE, RALPH V.**, Cr. Res. Social Behavior, Univ. Delaware, Newark, Del.
visual fixation; visual perception; interpersonal behavior; arousal; emotional reactions; instrumentation--methodology

MH-10747 **STEWART, CHARLES N.**, Franklin and Marshall Col., Lancaster, Pa.
epinephrine; conditioning, avoidance; learning; fear; dosage

MH-10748 **SLATER, PHILIP E.**, Brandeis Univ., Waltham, Mass.
sex behavior; socioculture; personality; social adjustment; statistics; coding

MH-10754 **SCHUCK, JOHN R.**, Col. Sci., Humanities, Iowa State Univ., Ames, Iowa
instrumentation--methodology; visual perception; visual fixation; visual fields; eye..retina; adults

MH-10756 **FOX, STEPHEN S.**, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
pituitary gland..neurohypophysis; brain..regulatory centers; osmoreceptors; saline solutions; neurosecretion; hypophysectomy..neurohypophysectomy; threshold; electrostimulus; urohypophysis

MH-10791 **BROWN, THOMAS S.**, Illinois State Psychiatric Inst., Chicago, Ill.
brain lesions; brain..visual tectum; brain..thalamus; visual perception; discrimination; learning; electrophysiology

MH-10792 **SECHZER, JERI A.**, Col. Med., Baylor Univ., Houston, Tex.
brain lesions; brain..visual cortex; brain..subcortical structures; learning; discrimination; memory--retention; interhemispheric transfer; intercular transfer; conditioning..avoidance; electroshock

MH-10793 **HELPER, MALCOLM M.**, Nebraska Psychiatric Inst., Omaha, Nebr.
mental retardation; verbal behavior; intelligence; sex difference; psycholinguistics

MH-10794 **MOORE, JOHN W.**, Col. Arts, Sci., Univ. Massachusetts, Amherst, Mass.
learning; hearing..auditory discrimination; mathematical models

MH-10795 **GLADSTONE, ARTHUR I.**, New School Social Res., New York, N.Y.
verbal behavior; interpersonal behavior; conflict; separation; social integration; interviews recording

MH-10796 **DEY, MUKUL K.**, Eastern Michigan Univ., Ypsilanti, Mich.
conditioning; response; time; expectancy; eyelids; stimulus; adults

MH-10797 **GELLER, IRVING**, New York Med. Col., New York, N.Y.
conditioning..operant conditioning; conditioning.. extinction; reinforcement; human; electroshock

MH-10806 **RESSLER, ROBERT H.**, Col. Letters, Sci., Univ. Wisconsin, Milwaukee, Wis.
conditioning..avoidance; maternal--fetal environment; behavior; electroshock; genetic strains

MH-10815 **STEED, GITEL**, Hofstra Univ., Hempstead, L.I., N.Y.
socioculture; geographical sites..India; socioenvironment..rural areas; ethnic groups; personality

(contd)

MENTAL HEALTH SMALL GRANTS (CONTD)

MH-10868 **MEYER, MERLE E., Whitman Col., Walla Walla, Wash.**
orientation; magnetic field; conditioning..operant conditioning; discrimination; threshold

MH-10885 **BELSHAW, MICHAEL, Hunter Col. of City Univ. New York, New York, N.Y.**
socioculture; ethnic groups..Mexican Indians; social change; conflict; attitude; geographical sites..Mexico

MH-10938 **BECK, ROBERT C., Col. Arts, Sci., Wake Forest Col., Winston-Salem, N.C.**
conditioning..operant conditioning; pain; electroshock; reinforcement; rewards and nonrewards; primates..squirrel monkeys; electrophysiology; heart rate

MH-10950 **WITTE, ROBERT S., San Jose State Col., San Jose, Cal.**
learning; choice behavior; prediction; orientation; conditioning; rewards and nonrewards

MH-10981 **GERJUOY, HERBERT G., Educational Testing Service, Princeton, N.J.**
learning; choice behavior; children; adults; mental retardation; reinforcement

MH-10982 **EBNER, EUGENE, Lafayette Clinic, Detroit, Mich.**
cognition; schizophrenia; visual perception; form perception; visual threshold

MH-10987 **HEATH, DOUGLAS H., Haverford Col., Haverford, Pa.**
personality; maturity; education..universities; socioculture; self--concept; Rorschach; MMPI; psychometrics; questionnaire; interviews; sex difference; adults

MH-11005 **STILSON, DONALD W., Sch. Med., Univ. Colorado, Denver, Colo.**
schizophrenia; visual perception; pupillary reflex; adrenergic receptors; cholinergic receptors; reaction time; computer simulation; photostimulus; noise

MH-11007 **AGNEW, HARMAN W., Jr., Col. Arts, Sci., Univ. Florida, Gainesville, Fla.**
sleep; aging; sex difference

MH-11012 **EISENSTEIN, EDWARD M., Col. Arts, Sci., State Univ. New York, Stony Brook, L.I., N.Y.**
nerve impulse transmission..efferent impulses; ganglion, nervous system; thorax; electrostimulus

MH-11014 **SIMMEL, ARNOLD, Fac. Med., Columbia Univ., New York, N.Y.**
attitude; education..nursing education; role; self--concept; authority; anxiety; career; questionnaire

MH-11016 **ANDERSON, D. CHRIS, Menninger Fdn., Topeka, Kans.**
conditioning..avoidance; electroshock; reinforcement; rewards and nonrewards; experimental psychology; learning

MH-11017 **BLACKWOOD, RALPH O., Univ. Bridgeport, Bridgeport, Conn.**
problem solving; thinking; conditioning..operant conditioning; verbal behavior; learning..mediation; reinforcement

MH-11019 **LYON, DAVID O., Col. Arts, Sci., Western Michigan Univ., Kalamazoo, Mich.**
conditioning..avoidance; electroshock; rewards and nonrewards; learning; response; reinforcement

MH-11021 **LONDON, IRA T., Denison Univ., Granville, Ohio**
goal--striving behavior; reinforcement; rewards and nonrewards; motivation; cues; deprivation; conditioning

MH-11031 **HOROWITZ, LEONARD M., Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.**
learning..association learning; semantics..language; semantics..vocabulary; psycholinguistics; cues; memory--retention

MH-11032 **WAYNER, MATTHEW J., Grad. Sch., Syracuse Univ., Syracuse, N.Y.**
thirst; sodium chloride; body fluids; deprivation; drinking behavior

MH-11033 **ARNOLD, WILLIAM R., Col. Arts, Sci., Univ. Texas, Austin, Texas**
juvenile delinquency; questionnaire; socioeconomics; peer group; role; social status; social psychology

MH-11034 **HUITRIC, ALAIN C., Col., Pharm., Univ. Washington, Seattle, Wash.**
psychotropic drugs; synthesis; chemical structure--biological activity; stereochemistry; cyclohexanols; cyclohexylamines

MH-11036 **LANG, GOTTFRIED O., Grad. Sch. Arts, Sci., Catholic Univ., Washington, D.C.**
socioculture; symbolism; ethnic groups..Sukuma; religion; social psychology; interpersonal behavior; medical practice; geographical sites..Africa

MH-11038 **KENYON, GERALD S., Sch. Education, Univ. Wisconsin, Madison, Wis.**
psychometrics; attitude; exercise; social psychology; values; statistics; computer analysis

MH-11043 **TOBACH, ETHEL, American Museum Natural History, New York, N.Y.**
psychometrics; statistics; computer

MH-11044 **MOSS, STANLEY M., Col. Arts, Sci., Univ. Massachusetts, Amherst, Mass.**
mental processes; reaction time; visual stimulus; choice behavior; experimental psychology; cognition; adults

MH-11053 **LAWTON, M. POWELL, Home for the Jewish Aged, Philadelphia, Pa.**
aging; social adjustment; socioeconomics..housing; morale; interviews; behavior rating scales; intelligence tests; mortality; morbidity; longitudinal study; geographical sites..Pennsylvania

MH-11055 **ARIENS, E.J., Univ. Nymegen, Nymegen, Holland**
nervous system..central nervous system; nervous system..peripheral nerves; adrenergic receptors; cholinergic receptors; stimulants; sympatholytic agents; parasympatholytic agents; intestines..ileum; vas deferens

MH-11057 **KAMRIN, BENJAMIN B., American Museum Natural History, New York, N.Y.**
parabiosis; alpha globulins; embryology; vocalization; histocompatibility; skin transplantation; nervous system

MH-11067 **AGNELLO, JOSEPH G., Col. Liberal Arts, Temple Univ., Philadelphia, Pa.**
speech disorders; vocalization; psychometrics; sound (speech) viewer

MH-11068 **McCONNELL, JAMES V., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
amphibians; memory--retention; learning..reversal learning; conditioning..operant conditioning; regeneration

MH-11069 **MINERS, WILLIAM S., Mendocino State Hosp., Talmage, Cal**
capillaries; schizophrenia; mental retardation; skin; temperature; tranquilizers

MH-11071 **KIMBLE, GREGORY A., Duke Univ., Durham, N.C.**
conditioning; salivation; swallowing; instrumentation--methodology

MH-11072 **GORE, PEARL M., Tennessee A and I State Univ., Nashville, Tenn.**
social desirability; acquiescence; social learning theory; criteria; motivation

MH-11092 **KAHN, ROBERT L., Univ. Michigan, Ann Arbor, Mich.**
education..university students; social organization..institutional organization; attitude; values; personality; experience; stress; success--failure; academic achievement; intelligence tests; psychological tests; education..universities; education..curriculum

MH-11093 **SCHELLENBERG, JAMES A., Sch. Liberal Arts, Sci., Western Michigan Univ., Kalamazoo, Mich.**
interpersonal behavior; social psychology; attitude; social desirability; dyadic interaction; personality

MH-11095 **CAMP, DAVID S., Col. Arts, Sci., Univ. Rhode Island, Kingston, R.I.**
emotional reactions; conditioning..avoidance; rewards and nonrewards; suppression, psychology

MH-11096 **GESCHEIDER, GEORGE A., Hamilton Col., Clinton, N.Y.**
hearing..auditory discrimination; nervous system..cutaneous sensory nerves; sensory mechanisms; stimulus; perception

MH-11100 **MILLER, MARILYN E., Col. Letters, Sci., Univ. Wisconsin, Milwaukee, Wis.**
learning..association learning; performance; memory--retention; volunteers

MH-11103 **HARRISON, ROBERT H., Boston City Hosp., Boston, Mass.**
statistics; computer analysis; MMPI; pregnancy; biomathematics

MH-11104 **HANDLON, JOSEPH H., Stanford Med. Cr., Palo Alto, Cal.**
psychotherapy; physician--patient relationships; communication; expectancy; role; psychometrics

MH-11107 **NAHINSKY, IRWIN D., Col. Arts, Sci., Saint Louis Univ., St. Louis, Mo.**
learning; conditioning; stimulus; reinforcement; response; problem solving; judgment

MH-11138 **GOSSETTE, ROBERT L., Grad. Sch., Hofstra Univ., Hampstead, N.Y.**
learning..reversal learning; discrimination; perception; performance; birds; primates..monkeys

MH-11139 **BRUNER, EDWARD M., Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.**
migrants, sociological; socioenvironment..urban areas; social change; social status; social adjustment; motivation; role

MH-11152 **LITTLE, KENNETH B., Grad. Col., Univ. Denver, Denver, Colo.**
judgment; training; visual stimulus; audiostimulus; discrimination; decision--making; adults

MH-11157 **JACKSON, DONALD E., Mary Washington Col., Fredericksburg, Va.**
goal--striving behavior; motivation; thirst; frustration; reinfrocement; conditioning..extinction

MH-11158 **MONAHAN, THOMAS P., State Univ. New York, Oswego, N.Y.**
children; criminology; juvenile delinquency; documentation systems; age; sex difference; ethnic groups..race; socioenvironment..urban areas; statistics; police; geographical sites..Pennsylvania

MH-11173 **BERNSTEIN, IRA H., Sch. Arts, Sci., Arlington State Col., Arlington, Texas**
choice behavior; reaction time; visual stimulus; decision--making; conditioning; learning; reinforcement; cognition; adults

MH-11175 **MEDALIA, NAHUM Z., Smith Col., Northampton, Mass.**
morbidity; anxiety; stress; sex difference; adults; socioeconomics; religion; socioculture; questionnaire

MH-11196 **DRAPER, WILLIAM A., Yerkes Regional Primate Res. Cr. Emory Univ., Orange Park, Fla.**
social behavior; primates..Macaca mulatta; exploratory behavior; problem solving; communication; infant animals ..newborn; siblings; travel; geographical sites..Puerto Rico

MH-11197 **VANDAMENT, WILLIAM E., Harpur Col., Binghamton, N.Y.**
eyelids; conditioning..extinction; visual stimulus; response; audiostimulus

MH-11205 **DeARMOND, DIANE, Sch. Liberal Arts, Univ. Missouri, Kansas City, Mo.**
behavior; conditioning..operant conditioning; rewards and nonrewards; electroshock; suppression; reinforcement

MH-11242 **SIMPSON, WILLIAM E., Albion Col., Albion, Mich.**
learning..association learning; learning..sequential learning; semantics..language; semantics..grammar; psychometrics; statistics; adults; children

MH-11276 **MANOSEVITZ, MARTIN, Col. Arts, Sci., Rutgers State Univ., New Brunswick, N.J.**
hoarding behavior; fear; frustration; feeding; electroshock; genetic strains

MH-11277 **STERNE, RICHARD S., Col. Arts, Sci., Univ. Miami, Coral Gables, Fla.**
family; juvenile delinquency; prediction; social psychology; statistics

MH-11278 **KIPLINGER, GLENN F., Univ. Texas Med. Br., Galveston, Tex.**
drugs tolerance; morphine; chemical structure--biological activity; analgesics; depressants; immunology..antigen--antibody reactions

MH-11279 **COWAN, THADDEUS M., Albion Col., Albion, Mich.**
verbal behavior; learning..association learning; memory--retention; psychometrics; mathematical models

MH-11329 **KLINMAN, CYNTHIA S., Col. Arts, Sci., Univ. Connecticut, Storrs, Conn.**
learning; memory--retention; mental retardation; children; discrimination; problem solving; color vision; visual perception; statistics

MH-11330 **WALKER, RICHARD N., Gesell Inst. Child Development, New Haven, Conn.**
behavior rating scales; Q sort test; children; family..parents; psychometrics

MH-11331 **FISHBEIN, HAROLD D., Col. Arts, Sci., Univ. Cincinnati, Cincinnati, Ohio**
conditioning; response; eyelids; training; cognition; problem solving; perception

MH-11338 **WRIGHT, HERBERT F., The Tavistock Inst. Human Relations, London, England**
social behavior; children; community; socio-environment..urban areas; socioculture; population dynamics, human; role; identity; social psychology

MH-11353 **WHITE, ROBERT A., Grad. Sch., St. Louis Univ., St. Louis, Mo.**
social adjustment; social integration; socio-environment..urban areas; ethnic groups..American Indians; socioculture; geographical sites..South Dakota; social status; interviews recording; migrants, sociological

MH-11359 **CAWTE, J.E., Univ. New South Wales, Sydney, New South Wales, Australia**
mental disorders; ethnic groups..Melanesians; survey; psychiatry; socioculture; religion; geographical sites.. Pacific Islands

MH-11366 **RIVERS, JULIAN P., Sch. Med., Univ. Chicago, Chicago, Ill.**
social change; ethnic groups; socioenvironment.. rural areas; migrants, sociological; conflict; socioeconomics; geographical sites..Spain; travel; interviews

MH-11367 **SHANNON, LYLE W., Col. Liberal Arts, Univ. Iowa, Iowa City, Iowa**
prediction; career; criminology; juvenile delinquency; socioenvironment..urban areas; Guttman rating scale; courts

MH-11369 **GLIXMAN, ALFRED F., Univ. Oklahoma, Norman, Okla.**
self--concept; interpersonal behavior; cognition; classification; identity; psychological tests; adults

MH-11371 **HEAL, LAIRD W., George Peabody Col. for Teachers, Nashville, Tenn.**
mental retardation; learning; discrimination; children; problem solving; cues; rewards and non-rewards; computer analysis

MH-11375 **KOENIG, KARL P., Stanford Univ., Stanford, Cal.**
psychotherapy; behavioral adjustment; neuroses; motivation; conditioning..operant conditioning; conditioning..avoidance; electroshock; habit; self--concept; memory--retention; muscle relaxation; smoking

MH-11398 **GOTTESMAN, IRVING I., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
personality; genetics..genotypes; family..parent--child; twins; siblings; sex difference; psychological tests; computer analysis; MMPI

MH-11407 **SCREVEN, C.G., Sch. Liberal Arts, Univ. Wisconsin, Milwaukee, Wis.**
rehabilitation; hospitals patients; chronic diseases; aging; patient care; conditioning..operant conditioning; reinforcement; motivation; self--organization

MH-11411 **WALLACE, SAMUEL E., Columbia Univ., New York, N.Y.**
criminology; interpersonal behavior; aggression; motivation; deviant behavior; interviews; publications; socioculture

MH-11415 **MARTIN, GUSTAV J., William H. Rorer, Inc., Fort Washington, Pa.**
conferences; durgs; enzymes; geographical sites.. United States; publications

MH-11428 **SIGEL, ROBERTA S., Col. Liberal Arts, Wayne State Univ., Detroit, Mich.**
public opinion; communication; information exchange; politics; education..audio--visual aids; attitude; interviews

MH-11429 **KINCH, JOHN W., Sch. Behavioral, Soc. Sci., San Francisco State Col., San Francisco, Cal.**
self--concept; perception; interpersonal behavior; self--organization; leadership; communication; psychometrics; adults

MH-11430 **BARTHOLOMEW, GEORGE A., Col. Letters, Sci., Univ. California, Los Angeles, Cal.**
social behavior; breeding cycles; pregnancy.. implantation; vocalization; sea lions

MH-11433 **JONES, ROBERT E., Jr., Portland State Col., Portland, Ore.**
learning..association learning; performance; reinforcement; adults; questionnaire

MH-11434 **HANDLER, JEROME S., Col. Liberal Arts, Sci., Southern Illinois Univ., Carbondale, Ill.**
socioculture; ethnic groups..Negroes; slavery; geographical sites..West Indies; travel; publications.. literature survey; social organization

MH-11436 **GOODE, WILLIAM J., Columbia Univ., New York, N.Y.**
family; behavior; publications..literature survey; publications..monograph; documentation systems; information exchange

MH-11437 **SOLLENBERGER, RICHARD T., Mount Holyoke Col., South Hadley, Mass.**
family..child rearing; ethnic groups..Chinese--Americans; socioenvironment..urban areas; interviews; socioculture; juvenile delinquency; prediction; geographical sites..United States

MH-11438 **SAFILIOS-ROTHSCHILD, CONSTANTINA, The Merrill-Palmer Inst., Detroit, Mich.**
attitude; mental disorders; ethnic groups..Greeks; geographical sites..Greece; role; family; social psychology; socioenvironment..urban areas; questionnaire; family..marriage; socioculture; values

MH-11442 **ODOM, RICHARD D., Grad. Sch., Vanderbilt Univ., Nashville, Tenn.**
children; concept; cognition; training; reinforcement; response; computer analysis

MH-11450 **WALTER, WILBERT G., Sch. Pharm., Univ. Mississippi, University, Miss.**
medicinal plants; chemical structure--biological activity; narcotics; antifertility factors; toxicology; antineoplastic agents

MH-11456 **AKHTAR, M., Col. Liberal Arts, Marquette Univ., Milwaukee, Wis.**
learning; rewards and nonrewards; conditioning.. avoidance; conditioning..extinction; reinforcement; behavior; electroshock

MH-11484 **MULLIGAN, B. EDWARD, Col. Arts, Sci., Univ. Georgia, Athens, Ga.**
hearing..auditory discrimination; audiostimulus; psychophysics

MH-11493 **BERK, ROBERT H., Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.**
statistics; mathematical models; biomathematics

MH-11494 **WOLLEN, KEITH A., Col. Sci., Arts, Washington State Univ., Pullman, Wash.**
learning..association learning; adults

MH-11495 **CHAVEZ, MARGARITO N., California Col. Med., Los Angeles, Cal.**
medicinal plants; chemical structure--biological activity; psychotropic drugs

MH-11496 **BEACH, LEE R., Univ. Michigan, Ann Arbor, Mich.**
mental processes; decision--making; concept; problem--solving; cues; psychometrics

MH-11502 **FISCHER, JOHN L., Cr. Advanced Study in Behavioral Sci., Stanford, Cal.**
self--concept; migrants (sociological); ethnic groups Japanese--Americans; socioculture; attitude; interviews; cues; semantics..language; social change; family; role; dyadic interaction

MH-11503 **GARSKOF, BERTRAM E., Douglass Col., Rutgers State Univ., New Brunswick, N.J.**
learning..association learning; memory--retention; psychometrics

MH-11504 **KRANTZ, DAVID H., Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.**
visual perception; depth perception; color vision; mathematical models; experimental psychology

MH-11505 **OSKAMP, STUART, Claremont Grad. Sch., Univ. Cr., Claremont, Cal.**
social behavior; interpersonal behavior..cooperation; game theory; personality; friendship; altruism; motivation

MH-11620 **WEBSTER, RONALD L., Hollins Col., Hollins College, Va.**
vocalization; infant human; communication; audiostimulus; semantics..language; verbal behavior; interviews recording; speech; learning

MH-11650 **JOHNSON, ERWIN H., Col. Arts, Sci., State Univ. New York, Buffalo, N.Y.**
values; community; ethnic groups..Negroes; socioenvironment..urban areas; socioculture; conflict; family; peer group; geographical sites..United States

(contd)

LISTING OF GENERAL RESEARCH AREAS

MENTAL HEALTH SMALL GRANTS (CONTD)

MH-11653 FELDMAN, SAMUEL M., Albert Einstein Col. Med., New York, N.Y.
brain..reticular formation; brain lesions; visual perception; sensory mechanisms; stimulus generalization; nerve impulse facilitation

MH-11674 KEITH, ROBERT A., Claremont Grad. Sch., Univ. Cr., Claremont, Cal.
behavior; angina pectoris; myocardial infarct; peptic ulcer; speech; interviews; adults; body movement

MH-11695 SENGSTAKE, CORD B., Portland State Col., Portland, Ore.
brain..rhinencephalon; brain lesions; visual perception; learning

MH-11699 WEISBERG, PAUL, Grad. Sch., Brown Univ., Providence, R.I.
discrimination; conditioning..operant conditioning; reinforcement; behavior; child development; infant human

MH-11701 PLOG, STANLEY C., Inst. Govt., Pub. Affairs, Univ. California, Los Angeles, Cal.
social psychology; semantics..language; religion; interviews recording; communication; emotional reactions

MH-11710 GRATCH, GERALD, Col. Arts, Sci., Univ. Houston, Houston, Tex.
child development; infant human; problem solving; choice behavior; memory--retention; attention; visual stimulus; concept; learning; intelligence

MH-11718 HEALEY, ALBERT F., Princeton Univ., Princeton, N.J.
learning..association learning; cues; problem solving; children; discrimination

MH-11719 GERSTEN, CHARLES D., Col. Liberal Arts, Arizona State Univ., Tempe, Ariz.
learning..mediation; discrimination; visual stimulus; performance; prediction; adults

MH-11722 CALHOUN, WILLIAM H., Col. Liberal Arts, Univ. Tennessee, Knoxville, Tenn.
memory--retention; amnesia; learning; conditioning.. avoidance; audiostimulus; visual stimulus; electrostimulus

MH-11723 LOCKHART, RUSSELL A., Col. Letters, Sci., Univ. California, Santa Barbara, Cal.
autonomic reflexes; conditioning..avoidance; conditioning.. extinction; electroshock; emotional reactions; heart rate; reinforcement

MH- 11730 EVANS, SELBY H., Grad. Sch. Arts, Sci., Texas Christian Univ., Fort Worth, Tex.
communication theory; perception; cognition; computer programming; computer analysis; computer simulation

MH-11731 ALLISON, JAMES, Sch. Arts, Sci., Indiana Univ., Bloomington, Ind.
feeding behavior; hunger; thirst; stimulus; sensory mechanisms; smell; taste; vision

MH-11739 WALKER, RONALD E., Grad. Sch., Loyola Univ., Chicago, Ill.
social psychology; anxiety; interviews; psychologists; clergy; adults; psychological tests; MMPI; interpersonal behavior

MH-11740 WOHLWILL, JOACHIM F., Grad. Sch. Arts, Sci., Clark Univ., Worcester, Mass.
concept; child development; semantics..language; cognition; children..preschool; experience

MH-11742 GARLAND, WILLIAM, Sch. Liberal Arts, Sci., Western Michigan Univ., Kalamazoo, Mich.
ecology, human; socioculture; ethnic groups..Africans; geographical sites..Africa

MH-11745 SCHILLER, PETER H., Sch. Humanities, Social Sci., Massachusetts Inst. Tech., Cambridge, Mass.
interhemispheric transfer; spreading depression; brain..corpus callosum; brain mapping; brain lesions; learning

MH-11746 STREIB, GORDON F., Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.
social change; socioeconomics; socioenvironment.. rural areas; attitude; family..parent--child; authority; interviews; social status; geographical sites..Europe; socioenvironment..urban areas

MH-11748 PAOLINO, RONALD M., Sch. Pharm., Univ. Connecticut, Storrs, Conn.
brain; brain mapping; rewards and nonrewards; drugs; binding; behavior; electrostimulus; mental disorders; acetylcholine; epinephrine; norepinephrine; serotonin; histamine; dopamine

MH-11751 NOWLIS, DAVID P., Bryn Mawr Col., Bryn Mawr, Pa.
consciousness; hypnosis; creativity; thinking; prediction; sex difference; questionnaire; family..child rearing; interviews; computer analysis

MH-11759 WAHLER, ROBERT G., Col. Liberal Arts, Univ. Tennessee, Knoxville, Tenn.
interpersonal behavior; children..preschool; peer group; free behavior; reinforcement

MH-11763 LANDAUER, THOMAS K., Col. Humanities, Sci., Stanford Univ., Stanford, Cal.
rowth; child development; experience; child care; infant human; sex difference; publications.. literature survey

MH-11769 LOCKHEAD, GREGORY R., Grad. Sch., Duke Univ., Durham, N.C.
visual perception; discrimination; color vision; visual stimulus; visual threshold; experimental pathology

MH-11771 EISMAN, EUGENE H., Col. Letters, Sci., Univ. Wisconsin, Milwaukee, Wis.
heart rate; deprivation; psychophysiology; conditioning; thirst; tachycardia; rewards and nonrewards

MH-11772 DYAL, JAMES A., Texas Christian Univ., Fort Worth, Tex.
conditioning..extinction; behavior; frustration; motivation; learning..mediation; reinforcement

MH-11774 PAVLIK, WILLIAM B., Col. Arts, Sci., Rutgers State Univ., New Brunswick, N.J.
learning..reversal learning; rewards and nonrewards; reinforcement; cues; discrimination; conditioning.. extinction; experimental psychology

MH-11776 CRIST, ROBERT L., Illinois State Univ., Normal, Ill.
mental retardation; children; programmed learning; reading; group work; reinforcement; performance

MH-11781 SULLIVAN, RICHARD T., City Col. New York, New York, N.Y.
learning; psychophysics; judgment; cross modal transfer; visual stimulus; audiostimulus; electroshock; mathematical models; perception

MH-11788 RICKERS-OVSIANKINA, MARIA A., Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.
psychometrics; expectancy; psychotherapy; social psychology; psychological tests; behavior rating scales; interpersonal behavior; statistics

MH-11789 MATUSZAK, ALICE J., Sch. Pharm., Univ. of Pacific, Stockton, Cal.
barbiturates; synthesis; chemical structure--biological activity; electron transport; molecular structure

MH-11790 IRWIN, SAMUEL, Oregon Regional Primate Res. Cr., Beaverton, Ore.
computer programming; computer analysis; behavior; psychotropic drugs

MH-11795 WELCH, ANNEMARIE S., Col. William and Mary, Williamsburg, Va.
stress; pregnancy; social space; epinephrine; fetus; brain; liver; oxidoreductases..monoamine oxidase; transferases..catechol O--methyl transferase; infant animals..newborn; catecholamines

MH-11801 MIKAELIAN, HARUTUNE H., Bowdoin Col., Brunswick, Me.
spatial perception; body movement; visual perception; optical aids..prism spectacles

MH-11803 MEYERS, WILLIAM J., State Univ. Iowa, Iowa City, Iowa
psychophysiology; heart rate; laboratory facilities; instrumentation--methodology

MH-11806 GOSSETTE, ROBERT L., Grad. Sch., Hofstra Univ., Hempstead, N.Y.
learning..reversal learning; discrimination; rewards and nonrewards; performance; species

MH-11809 TEGHTSOONIAN, ROBERT, Smith Col., Northampton, Mass.
learning; choice behavior; cognition; cues; psychometrics

MH-11810 TEGHTSOONIAN, MARTHA, Smith Col., Northampton, Mass.
spatial perception; visual perception; judgement; experience; training; education; adults; psychophysics; personality; size--weight illusion

MH-11817 GERARD, HAROLD B., Col. Letters, Sci., Univ. California, Riverside, Cal.
decision--making; arousal; attention; rewards and nonrewards; choice behavior; judgment; mental processes; adults

MH-11827 HORN, JOHN, Grad. Col., Univ. Denver, Denver, Colo.
behavior; social psychology; mathematical models; statistics; computer analysis

MH-11829 HAYES, DONALD P. and MELTZER, LEO, Col. Arts, Sci., Cornell Univ., Ithaca, N.Y.
social status; interpersonal behavior; information--seeking behavior; problem solving; communication; social psychology; speech

MENTAL HEALTH SPECIAL GRANTS

MH-09128 ARGYRIS, CHRIS, Sch. Eng., Yale Univ., New Haven, Conn.
industrial medicine; social organization institutional organization; mental health; behavior

MH-09135 BIBER, BARBARA, Bank Street Col. Education, New York, N.Y.
education..schools; mental health; teaching; social psychology; information exchange; research programs; attitudes; community; politics

MH-09137 LINDEMANN, ERICH, Harvard Univ. Med. Sch., Boston, Mass.
mental health; socioenvironment..urban areas; interviews; family; children; social adjustment; role; attitude; community service; ethnic groups

MH-09145 SIMON, ALEXANDER, Langley Porter Neuropsychiatric Inst., San Francisco, Cal.
aging; self-concept; mental disorders; survey; decision-making; community; mental hospitals; social psychology; stress; perception; personality; nervous system disorders; longitudinal study

MH-09151 KING, STANLEY H., Harvard Univ., Cambridge, Mass.
education..universities; social organization; personality; social adjustment; psychometrics; longitudinal study

MH-09171 CHEIN, ISIDOR, Grad. Sch., Arts, Sci., New York Univ., N.Y.C.
community service; juvenile delinquency; geographical sites..New York; socioeconomics..housing; survey; mental health; socioenvironment; statistics

MH-09179 ISAACS, HAROLD R., Massachusetts Inst. Technology, Cambridge, Mass.
personality; politics; stress; ethnic groups; social change; identity; mental health; public opinion; interviews; children..adolescence

MH-09180 CISIN, IRA H., George Washington Univ., Washington, D.C.
drinking behavior; survey; interviews; social psychology; geographical sites..United States; longitudinal study; adults

MH-09181 SANFORD, NEVITT, Inst. for Study Human Problems, Stanford Univ., Stanford, Cal.
cooperative study; alcoholism; therapy; criminology; public opinion; public health; socioculture; manpower; information exchange

MH-09183 ROSSI, PETER H., National Opinion Res. Cr., Chicago, Ill.
biometry; psychometrics; social behavior; emotional reactions; attitudes; socioenvironment; community

MH-09186 CONNERY, ROBERT H., Duke Univ., Durham, N. C.
mental health; research programs; survey; socioenvironment..urban areas; politics; social change

MH-09187 SNYDER, CHARLES R., Grad. Sch., Southern Illinois Univ., Carbondale, Ill.
documentation systems; drinking behavior; publications,. literature survey

MH-09192 HENRY, WILLIAM E., Sch. Social Sci., Univ. Chicago, Chicago, Ill.
career; interviews; longitudinal study; mental health personnel; motivation; orientation (psychological); personality; research programs; role; self-concept; social status

MH-09193 McCAFFREE, KENNETH M., Col. Arts, Sci., Univ. Washington, Seattle, Wash.
hospitals administration; medical economics; patient care; psychiatric patients; therapy

MH-09194 GOFFMAN, IRWIN W., Mental Hlth. Res. Unit., Syracuse, N.Y.
suicide; risk behavior; orientation, psychological; decision-making; subjective time; stress; social status; criteria; computer analysis; family; social organization

MH-09199 REIN, MARTIN and ROSS, BERNARD, Professional Sch., Bryn Mawr Col., Bryn Mawr, Pa.
social service; community service; mental health; medical facilities planning; public opinion; administration; interviews; survey

MH-09205 GEER, BLANCHE, Syracuse Univ. Res. Inst., Syracuse, N.Y.
education..schools; training; experience; socioeconomics; social adjustment; personality; role; adults

MH-09208 SIMMONS, OZZIE G., Grad Sch., Univ. Colorado, Boulder, Colo.
social adjustment; migrants (sociological); socioenvironment..urban areas; success--failure; role; social status; interviews; survey; mathematical models; geographical sites..Colorado

MH-09216 HOWERTON, DOROTHY K., Sch. Soc. Work, Boston Col., Boston, Mass.
social psychology; foster homes; child care; family.. parent--child; attitudes; interpersonal behavior; questionnaire; computer analysis

METABOLISM

AI-01111 STEVENS, CARL M., Grad. Sch., Washington State Univ., Pullman, Wash.
valine; leucine; microorganisms; mutations; 2-isopropylmalic acid; 3-isopropylmalic acid; molecular rearrangement; hydrogen acceptors; lysine

AI-01575 SNELL, ESMOND E., Grad. Sch., Univ. California, Berkeley, Cal.
bacteria..Lactobacillus; amino acids; pantothenic acid; nutrients; pyridoxine

AI-02757 AYVAZIAN, JOHN H., Veterans Admin. Hosp., New York, N.Y.
deoxyribonucleic acid; nucleases..deoxyribonuclease; purine nucleotides

AI-03427 VENKITASUBRAMANIAN, T.A., Sch. Med., Univ. Delhi, Delhi, India
carbohydrates metabolism disorders; tuberculosis; enzymes; endocrine glands; glucose; insulin; liver; membrane permeability and transport; cell components.. cell membrane

AM-00052 DRURY, DOUGLAS R., Sch. Med., Univ. Southern California, Los Angeles, Cal.
carbon dioxide transport; diabetes; glucose; insulin; nephrectomy; radiolabeled carbon

AM-00149 PONSETTI, I.V., Col. Med., State Univ. Iowa, Iowa City, Iowa
mucopolysaccharides; α--aminonitriles; skin; fractionation; enzymes; collagen; children; temperature

AM-00396 GOLDSTEIN, MAURICE S., Michael Reese Hosp., Chicago, Illinois
insulin; glucose; exercise; hypoglycemic agents; liver; cell components..cell membrane; thyroid gland; membrane permeability; nervous system..sympathetic nerves; adrenal glands; pituitary gland

AM-00430 TALSO, PETER J., Stritch Sch. Med., Loyola Univ., Hines, Ill.
carbohydrates; dehydrogenases..lactate dehydrogenase; diuresis; edema (generalized); familial periodic paralysis; heart failure..congestive heart failure; hyposmolarity; ion..cations; liver cirrhosis; magnesium; potassium; pyruvate

AM-00475 VERMEULEN, CORNELIUS W., Sch. Med., Univ. Chicago, Chicago, Ill.
bacterial diseases; calcium; citrate; crystallization; milk; urinary calculi

AM-00613 KUYPER, ADRIAN C., Col. Med. Wayne State Univ., Detroit, Mich.
citrate; ossification; oxidation; radiolabeled; carbon dioxide

AM-00650 BALDRIDGE, ROBERT C., Sch. Med., Temple Univ., Philadelphia, Pa.
imidazolpyruvic acid; imidazolyllactic acid; imidazolylpropionic acid; antimetabolites; urocanic acid; histidine; urocanase; preganancy; radiolabeled carbon; fractionation

AM-00666 FREEMAN, SMITH, Sch. Med., Northwestern Univ., Chicago, Ill.
binding; blood proteins..plasma proteins; bone; calcium; carbohydrates; cell components..mitochondria; citrate; kidney; Kreb's cycle; nephrectomy; parathyroid hormones; phosphorylases; radiolabeled carbon

AM-00831 DRABKIN, DAVID L., Grad. Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
blood proteins..plasma proteins; cell components..microsomes; hepatectomy; liver; messenger ribonucleic acid; nephrosis; nucleic acids; proteins; radiolabeled carbon; radiolabeled phosphorus; regeneration

AM-00854 NICHOLS, GEORGE, Jr., Sch. Med., Harvard Univ., Boston, Mass.
bone; bone resorption; calcium; phosphorus; ion; body fluids; radiolabeled; cells; bone disorders

AM-00893 PARSONS, WILLIAM, Univ. Virginia Hosp., Charlottesville, Va.
obesity hereditary hyperglycemic; lipids; hyperglycemia; fatty acids; adipose tissue; fasting; liver; diet; hexose monophosphate pathway; radiolabeled carbon; diabetes

AM-00975 BOAS, NORMAN F., Norwalk Hosp., Norwalk, Conn.
body fluids; chemical structure; hexosamines; oligosaccharides

AM-01059 SCHEINBERG, I. HERBERT, Sch. Med., Yeshiva Univ., N.Y.C.
proteins; copper; blood..plasma; ceruloplasmin; hepatolenticular degeneration

AM-01155 HOWELL, DAVID S., Jackson Memorial Hosp., Miami, Fla.
binding; cartilage; connective tissue; costochondral growth center; electrolytes; hydroxyapatite; mucopolysaccharides

AM-01230 LIEBELT, ROBERT A., Col. Med., Baylor Univ., Houston, Tex.
adipose tissue; adrenal glands; body weight; brain..hypothalamus; cytology; gold thioglucose; hyperphagia; lipids; obesity; ovary; thyroid function

AM-01266 SNEDECOR, JAMES G., Grad. Sch., Univ. Massachusetts, Amherst, Mass.
carbohydrates; glucose; glycogen body; hormones; hypophysectomy; implants; pituitary gland; radiolabeled carbon; radiolabeled phosphorus

AM-01271 REDEKER, ALLAN G., Sch. Med., Univ. Southern California, Los Angeles, Cal.
blood cells..erythrocytes; chlorotris (p-methoxyphenyl) ethylene; coproporphyrins; liver; porphyria acute; porphyria cutanea tarda; porphyria erythropoietic; porphyrins; protoporphyrins; pyrrole; sex hormones; uroporphyrins

AM-01277 BUCHANAN, DONALD L., Veterans Administration Hosp., West Haven, Conn.
aspartic acid; glutamates; isomers; peptides; proteases..peptidases; synthesis; urine

AM-01351 ANAST, CONSTANTINE S., Sch. Med., Univ. Missouri, Columbia, Mo.
magnesium; calcium; bone; sulfates; muscle; gastrointestinal system; parathyroid hormones; parathyroid glands disorders; diet; acidosis

AM-01391 WYNGAARDEN, JAMES B., Duke Univ., Durham, N.C.
adenine; purine; gout; bacteria..Escherichia coli; enzymes; growth, macroorganisms; liver; glycosyltransferases.. ribosylamine-5-phosphate; pyrophosphate phosphoribosyltransferase; synthesis; enzymes feedback

AM-01392 ISSELBACHER, KURT J., Massachusetts Gen. Hosp., Boston, Mass.
galactose-1-phosphate; galactose; galactosemia; tissue culture; genetics; enzymes; brain lesions; cataract; liver diseases

AM-01417 MENDELOFF, ALBERT I., Sinai Hosp. Baltimore, Baltimore, Md.
bile acids and salts; gas chromatography; cholesterol; intestinal absorption; liver function; bile

AM-01432 KRAMER, BENJAMIN, Maimonides Hosp., Brooklyn, N.Y.
magnesium; metabolic diseases; radiolabeled magnesium; intestinal absorption; diet; feces; urine; blood cells.. erythrocytes; body fluids; blood proteins; electrolytes; dietary deficiency; bone disorders; neuromuscular diseases

AM-01483 SCHACHTER, DAVID, Col. Phys., Surg., Columbia Univ., New York, N.Y.
calcium; intestinal absorption; gastric pouch; vitamin D; pituitary hormones; parathyroid hormones; adrenal glands; radiolabeled carbon; vitamin D2; tritium

(contd)

LISTING OF GENERAL RESEARCH AREAS

METABOLISM (CONTD)

AM-01489 RECKNAGEL, RICHARD O., Sch. Med., Western Reserve Univ., Cleveland, Ohio
blood..plasma; carbon tetrachloride; ethionine; fatty liver; phosphorus; triglycerides

AM-01499 PRICE, JAMES M., Sch. Med., Univ. Wisconsin, Madison, Wis.
tryptophan; arthritis..rheumatoid arthritis; pregnancy; metabolites; aplastic anemia, congenital

AM-01535 WHITNEY, JOHN E., Univ. Arkansas Med. Cr., Little Rock, Arkansas
glucose uptake stimulating factors; diabetes; epididymal fat pad; diaphragm; insulin

AM-01543 JEFFAY, HENRY, Sch. Med., Univ. Illinois, Chicago, Ill.
albumins..serum albumin; amino acid; blood; blood proteins..serum proteins; peptides; proteins; radiolabeled sulfur; tissue; urine

AM-01617 DANOWSKI, THADDEUS S., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
electrolytes; carbohydrates; blood..serum; metabolic diseases

AM-01646 SOKAL, JOSEPH E., Roswell Park Mem. Inst., Buffalo, N.Y.
liver; carbohydrates; glycogen; glucagon; insulin; hydrocortisone; adrenal cortex hormones; glycogenolysis glycogenosis; epinephrine

AM-01653 KRAHL, MAURICE E., Univ. Chicago, Chicago, Ill.
adipose tissue; amino acid; carbohydrates; cell components..mitochondria; insulin; nitrogen; oxidative phosphorylation; proteins; radiolabeled carbon

AM-01677 HEIMBERG, MURRAY, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
ACTH; adrenal cortex hormones; adrenalectomy; epinephrine; fats; fatty acids; gonadectomy; gonadotropins; hormones; hydrocortisone; liver; oxidation; radiolabeled carbon; triglycerides

AM-01706 KLITGAARD, HOWARD M., Sch. Med., Marquette Univ., Milwaukee, Wis.
body water; fats; body composition; electrolytes; thyroidectomy; thyroxine; thyroglobulin; diet; basal metabolism; enzymes

AM-01708 VESTER, JOHN W., Vet. Administration Hosp., Pittsburgh, Pa.
carbon dioxide; cell components..mitochondria; diabetes; glucose; high energy compounds; insulin; Krebs cycle; liver; oxidative phosphorylation; oxygen; pancreatectomy; phosphorus; phosphotransferases.. ATP:D-hexose 6-phosphotransferase; radiolabeled carbon

AM-01775 GAMBLE, JAMES L., Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
binding; cell components..mitochondria; electrolytes; ion; oxidative phosphorylation; potassium

AM-01834 DISCHE, ZACHARIAS, Col. Phys., Surg., Columbia Univ., N.Y.C.
N-acetylneuraminic acid; binding; calcium; curtain electrophoresis; epithelium; L-fucose; molecular weight; polysaccharides; urinary calculi; urinary tract

AM-01847 BROWN, JOSIAH, Sch. Med., Univ. of California, Los Angeles, Calif.
uterus; growth hormones; glucose; fatty acids; oxidation; muscle; pituitary hormones; hemagglutination inhibition; gonadotropins; ACTH; cortisone; hypophysectomy

AM-01849 COPE, OLIVER, Massachusetts Gen. Hosp., Boston, Mass.
alcoholism; diaphragm; diet; gastrointestinal surgery; magnesium; malabsorption syndromes; radiolabeled

AM-01921 KIPNIS, DAVID M., Sch. Med., Washington Univ., St. Louis, Mo.
amino acid; carbohydrates; cell components..cell membrane; diet; enzymes; fatty acids; hormones

AM-01952 HAUSBERGER, FRANZ X., Daniel Baugh Inst., Anatomy, Philadelphia, Pa.
hyperadrenalism; obesity; insulin; gonadectomy; adipose tissue; adrenal glands

AM-02019 ARIAS, IRWIN M., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
bile pigments; bilirubin; cell components; dosage; 17 α ethyl-19-nortestosterone; glucuronic acid; icterogenin; liver cells; transferases..glucuronyl transferase

AM-02027 ZIMNY, MARILYN L., Sch. Med., Louisiana State Univ., New Orleans, La.
cholinesterases; dehydrogenases..succinate dehydrogenase; oxidases..NADPH2 acceptor oxidoreductase; phosphatases ..adenosine triphosphatase; phosphomonoesterases..alkaline phosphatases; seasonal variation

AM-02040 SESSIONS, JOHN T., Jr., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
liver cirrhosis; cancer; hepatitis; jaundice..obstructive jaundice; ribonucleic acid; deoxyribonucleic acid; oxidoreductases..lactate dehydrogenases; oxidoreductases.. succinate dehydrogenase; aminotransferases..aspartate transaminase; aminotransferases..alanine transaminase; liver; hyperthyroidism; dietary deficiency; liver function

AM-02096 WATSON, CECIL J., Col. Vet. Med., Univ. Minnesota, Minneapolis, Minn.
porphyrins; genetics; splenectomy; anemia; porphyria; oxygen; electrophoresis; hemoglobin; erythema; skin; protoporphyrins; blood cells..reticulocytes; radiolabeled carbon

AM-02131 NAIR, PADMANABHAN P., Sinai Hospital, Baltimore, Md.
lipids; radiolabeled iodine; scintillation counter; radiolabeled carbon; tritium; lysolecithins; silicic acid chromatography; fatty acids; steroids; nutrition; intestinal absorption; bile acids and salts; triglycerides

AM-02164 LABBE, ROBERT F., Sch. Med., Univ. Washington, Seattle, Wash.
porphyrins; purine; porphyria; inosine; iron; electron transport; fatty acids; tissue culture

AM-02231 BARNESS, LEWIS A., Sch. Med. Univ. Pennsylvania, Philadelphia, Pa.
antibiotics; blood cells..erythrocytes; carbon monoxide; dietary deficiency; ethanolamines; germ-free; hippurates; lipids; mucopolysaccharides; phenols, proteins; tocopherol

AM-02286 SAVITSKY, J. PHILLIP, Montefiore Hosp., N.Y.C.
atherosclerosis; cholesterol; deoxyribonucleic acid; lipemia; lipids..serum lipids; nucleases..deoxyribonuclease

AM-02294 MASON, MERLE, Sch. Med., Univ. Michigan, Ann Arbor, Michigan
hydroxykynurenine; transaminases..kynurenine transaminase; enzymes inhibitors; pyridoxal phosphate; estrogen sulfates; steroids

AM-02307 RAMEY, ESTELLE R., Med. Sch., Georgetown Univ., Washington, D.C.
adipose tissue; diaphragm; fasting; fatty acids; nervous system..autonomic nervous system; neuroendocrine systems; palmitic acid; stress

AM-02340 LUND, PAUL K., The Swedish Hosp., Seattle, Wash.
cholesterol; fatty acids; lipids; phospholipids; triglycerides; xanthomatosis generalisata ossium; x-ray diffraction

AM-02463 HALMI, NICHOLAS S., Col. Med., State Univ. Iowa, Iowa City, Iowa
iodide; thyroid gland; thyrotropin; cell types; pituitary gland; staining; species; kidney..renal tubular transport

AM-02489 ROTHSCHILD, MARCUS A., Sch. Med., New York Univ., N.Y.C.
albumins; cortisone; dextran; hyperglobulinemia; hypoalbuminemia; radiolabeled iodine; reticuloendothelial system

AM-02564 BATES, MARGARET W., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
albumins..plasma albumins; cholesterol esters; fasting; fatty acids; lipids..plasma lipids; phospholipids; triglycerides

AM-02568 BOSTROM, HARRY, Univ. Stockholm, Stockholm, Sweden
radiolabeled sulfur; sulfates..sulfuric esters; body fluids; paper chromatography; electrophoresis; radioautography; column chromatography; fractionation

AM-02598 GORDON, EDWIN E., Col. Med., Yeshiva Univ., N.Y.C.
acid-base equilibrium; carbohydrates; carbon dioxide; citrate; diabetes..alloxan diabetes; kidney; kidney function; lipids; liver; pyridine nucleotides; radiolabeled carbon; respiration

AM-02640 CAHILL, GEORGE F., JR., Baker Clinic Research Lab., Boston, Mass.
adipose tissue; carbohydrates; fats; glucocorticoids; lipids; obesity; proteins

AM-02642 MILCH, ROBERT A., Johns Hopkins Hosp., Baltimore, Md.
alkaptonuria; arthritis; homogentisic acid; pigmentation disorders; collagen; aging; arteriosclerosis; joint diseases..degenerative joint disease; connective tissue; aldehydes

AM-02731 VAN PILSUM, JOHN F., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
aminotransferases; creatine; diet; diurnal variation; enzymes; guanidines; kidney; tocopherol

AM-02745 SUZUKI, HOWARD K., Univ. Arkansas Med. Cr., Little Rock, Ark.
osteogenesis; pituitary gland; gonads; bone transplantation; osteocytes; thyroid hormones; poikilotherms; estrogens; antlers; mucopolysaccharides; arthritis

AM-02756 KYLE, LAURENCE H., Sch. Med., Georgetown Univ., Washington, D.C.
adipose tissue; body composition; body volume; body weight; Cushing's syndrome; diet; estrogens; helium; hormones; instrumentation; surgery..postoperative; temperature; testosterone; thyroid hormones; triglycerides

AM-02803 VOLWILER, WADE, Sch. Med., Univ. Washington, Seattle, Wash.
albumins..plasma albumins; blood coagulation..fibrinogen; blood proteins..Cohn's fractionation; blood proteins.. plasma proteins; computer; liver; perfusion; radiolabeled iodine

AM-02872 LUDWIG, GEORGE D., Univ. Pennsylvania, Philadelphia, Pa.
dehydrogenases..succinate dehydrogenase; porphyrins; oxidases..NADH2 diaphorase; oxidase, succinate oxidase; cell components..mitochondria; malonic acid; oxidative phosphorylation; genetics; porphyria; congenital abnormalities; hematopoiesis..erythropoiesis; aminoaciduria; indoluria; hyponatremia; hypochloremia; vasopressin; carbon monoxide; hemins

AM-02914 McMANUS, IVY R., Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
dehydrogenases..alcohol dehydrogenase; dietary deficiency; ethanol; nicotinic acid; oxidases..pyruvate oxidase; radiolabeled carbon; thiamine

AM-02979 LEIN, ALLEN, Northwestern Univ. Med. Sch., Chicago, Ill.
fats; diabetes; liver function; fatty acids; insulin; binding; proteins

AM-03025 DOISY, RICHARD J., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
adipose tissue; insulin; bioassay; diet; age; oxygen consumption; dietary deficiency; chromium; liver function

AM-03038 SHAPIRO, BENYAMIN, Hebrew University-Hadassah Med. Sch., Jerusalem, Israel
adipose tissue; enzymes; esterification; fatty acids; lipids; liver circulation; neohrosis; triglycerides

AM-03049 DIETRICH, L.S., Sch. Med., Univ. Miami, Coral Gables, Fla.
coenzyme; antivitamins; cell components..cell nucleus; cell components..mitochondria; cell components.. microsomes

AM-03108 JOHNSTON, JOHN M., Sch. Med., Univ. Texas, Dallas, Tex.
chemical structure; cholesterol; enzymes; fatty acids; intestinal absorption; lipids; mucous membrane

AM-03142 HARPER, PAUL V., Sch. Med., Univ. Chicago, Chicago, Ill.
glucagon; lipids..serum lipids; hyperlipemia; immunology.. antibodies; cholesterol; hypothyroidism; hyperparathyroidism; gastric pouch; fatty liver; parathyroid hormones; atherosclerosis

AM-03143 DeMARTINIS, FREDERICK D., Woman's Med. Col. Pennsylvania, Philadelphia, Pa.
cell components..mitochondria; dietary deficiency; enzymes; fats; hyperthyroidism; oxygen consumption

AM-03224 DEISS, WILLIAM P., Jr., Sch. Med., Indiana Univ., Indianapolis, Ind.
bone; parathyroid hormones; radiolabeled carbon; radiolabeled sulfur; parathyroidectomy

AM-03293 LEVY, ROBERT I., Sinai Hosp. Baltimore, Baltimore, Md.
cholesterol; fatty acids; gas chromatography; kidney; kidney disorders; lipids..serum lipids; nephrotic syndrome; silicic acid chromatography; triglycerides

AM-03295 MONROE, LEE S., Scripps Clin. Res. Fdn., La Jolla, Cal.
bromsulphalein; indocyanine green; liver; oxygen consumption; reaction rates (chemistry); rose bengal

AM-03296 CORNELIUS, CHARLES E., Sch. Vet. Med., Univ. California, Davis, Cal.
mucoproteins; ion; binding; carbohydrates; urinary calculi; colloids

AM-03347 ARCHIBALD, REGINALD M., Rockefeller Inst., N.Y.C.
bone; calcium; cartilage; enzymes; fluorides; menopause.. postmenopause; osteoporosis; therapy

AM-03421 BOLLET, ALFRED J., Sch. Med., Univ. Virginia, Charlottesville, Va.
arthritis; arthritis..rheumatoid arthritis; bone; bone disorders; calcification; cartilage; cell components..microsomes; cell components..mitochondria; connective tissue; connective tissue diseases; electron transport; enzymes; immune sera; immunology..antibodies; immunology..complement; lupus erythematosus..systemic lupus erythematosus; metabolic diseases; polysaccharides; proteases

AM-03458 MOREHOUSE, MARGARET G., Sch. Med., Univ. Southern California, Los Angeles, Cal.
adipose tissue; chemical structure; fatty acids; intestinal absorption; lipids; liver; triglycerides

AM-03513 KUHLMAN, ROBERT E., Sch. Med., Washington Univ., St. Louis, Missouri
bone..epiphyses; tissue culture; bone disorders; osteogenesis

AM-03568 KESTON, ALBERT S., Inst. Med. Res. and Studies, New York, N.Y.
glucose; isomerases..mutarotase; insulin; kidney function; cell components..cell membrane; metabolic diseases; membrane permeability and transport

AM-03615 FITCH, COY D., Sch. Med., Univ. Arkansas Med. Cr., Little Rock, Ark.
creatine; liver; amidinotransferases; creatinuria; radiolabeled carbon; muscle; membrane permeability and transport; dietary deficiency

AM-03709 RIGGS, THOMAS R., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
hormones; amino acids; radiolabeled carbon; proteins; estrogens; insulin; androgens; uterus

AM-03766 WHITE, ARNOLD A., Sch. Med., Univ. Missouri, Columbia, Mo.
calcification; bone..femur; phosphorus; radiolabeled phosphorus; phosphomonoesterases..alkaline phosphatase; calcium; radiolabeled calcium

AM-03816 GARN, STANLEY M., Fels Res., Inst., Yellow Springs, Ohio
bone..epiphyses; growth; ossification; hand; joints..wrist; age; children; foot; genetics; nutrition

AM-03892 WILSON, JEAN D., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
hormones; diet; proteins; nitrogen balance; carbohydrates; diabetes; pyridine nucleotides

AM-03963 DOLE, VINCENT P., Rockefeller Inst., New York, N.Y.
radiolabeled carbon; chylomicrons; lipids..plasma lipids; PVP; ketone bodies; diabetes

AM-03967 BERNSTEIN, DANIEL S., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
cartilage; mucopolysaccharides; glucose; carbohydrates; rickets; phosphotransferases..ATP : D--hexose 6--phosphotransferase; oxidoreductases..glucose--6-phosphate dehydrogenase; phosphomutases..phosphoglucomutase; parathyroid hormones; fluorides; bone disorders

AM-04050 YOUNATHAN, EZZAT S., Univ. Arkansas Med. Cr., Little Rock, Ark.
alloxan; cytoxicity; enzyme inhibitors; Krebs cycle; NAD(H2)

AM-04071 CLARK, IRWIN, Col. Phys., Surg., Columbia Univ., New York, N.Y.
bone resorption; vitamin A; vitamin D; collagen; mucopolysaccharides; calcium; phosphorus; antibiotics..tetracycline; binding; magnesium; osteogenesis; bone; adrenal cortex hormones; hypercalcuria; hyperphosphaturia; parathyroid glands; adrenal glands; diet

AM-04080 FRANTZ, ANDREW G., Mass. Gen. Hosp., Boston, Mass.
somatotropin; proteins; hypophysectomy; blood cells.. reticulocytes; bioassay; radiolabeled carbon; tritium; immunological tests

AM-04123 BEEKEN, WARREN L., Dartmouth Med. Sch., Hanover, N.H.
albumins; cell components; reaction sites

AM-04135 BERGREN, WILLIAM R., Childrens Hosp., Los Angeles, Cal.
galactose; hormones; diet; galactosemia

AM-04225 McLEAN, FRANKLIN C., Univ. Chicago, Chicago, Ill.
bone; calcium; collagen; calcification; rickets; diurnal variation; estrogens; genetics; dental structure; cell age; osteoblasts; osteoclasts; osteocytes; osteogenesis; parathyroidectomy; parathyroid hormones; tritium; tetracycline; vitamin D; cartilage; glycine

AM-04241 MOORE, RICHARD O., Grad. Sch., Ohio State Univ., Columbus, Ohio
adipose tissue; cell; enzymes; glycolysis; hormones; lipids; mammary gland; membrane permeability; prolactin; tissue respiration

AM-04270 KHACHADURIAN, AVEDIS K., Sch. Med., American Univ., Beirut, Lebanon
adipose tissue; fasting; epinephrine; insulin; blood flow; perfusion; pump oxygenator; fatty acids

AM-04303 HASLEWOOD, GEOFFREY A. D., Guy's Hosp. Med. Sch., London, England
bile acids and salts; glycine; conjugates; chemical structure; bile alcohols

AM-04304 ELLIOT, JAMES S., Sch. Med., Univ. California, San Francisco, Cal.
amino acid; calcium oxalate; calcium phosphate; ion; magnesium; organic compounds; oxalates; phosphates; solubility; urinary calculi; urine

AM-04307 SWEELEY, CHARLES C., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
fatty acids; nutrition; phosopholipids; sphingolipidosis; sphingolipids; sphingomyelin

AM-04336 TODD, WILBERT R., Sch. Med., Univ. Oregon, Portland, Ore.
carbohydrates; creatine; diet; glycine; glycogen; glyconeogenesis; proteins; stress

AM-04340 KUNIN, ARTHUR S., Sch. Med., Univ. Vermont, Burlington, Vt.
bone; calcium; citrate; cortisone; diet; osteoporosis; triiodothyronine

AM-04362 MUELLER, WERNER J., Grad. Sch., Pennsylvania State Univ., University Park, Pa.
calcium; bone; hormones; nutrition

AM-04396 SCHUBERT, MAXWELL, New York Univ. Med. Cr., N.Y.C.
bone; immobilization; limbs; nerves..denervation; osteogenesis; radiolabeled sulfur

AM-04407 SCHACHTER, DAVID, Col. Phys., Surg., Columbia Univ., N.Y.C.
intestinal absorption; iron; pregnancy

AM-04410 BOSTROM, HARRY, The Wenner-Gren Inst., Stockholm, Sweden
metabolic diseases; sulfates; body fluids; enzymes; radiolabeled sulfur

AM-04445 McCONNELL, KENNETH P., Sch. Med., Univ. Louisville, Louisville, Ky.
selenium; muscle proteins; myosin; neutron activation analysis (unspecified); aldolases; muscular diseases; cytochrome C; lipoproteins; 2--selenocystine; selenomethionine; 6--selenoguanine; purine; radiolabeled selenium; liver; mucous membrane; membrane permeability and transport; ion exchange and transport; sulfur; cell components..ribosomes; adenosine triphosphate; respiration; pancreatic juice; blood cells..erythrocytes; ion exchange resins

AM-04447 PRINCIOTTO, JOSEPH V., Sch. Med., Dent., Georgetown Univ., Washington, D.C.
amino acid; chelating agents; iron; blood cells; binding; proteins

AM-04505 GAYLOR, JAMES L., Cornell Univ., Ithaca, N.Y.
sterols; skin; chemical structure; radiolabeled; cholesterol; mevalonic acid; acetates; hypercholesteremia

AM-04569 YOUNG, ROBERT J., Col. Agr., Cornell Univ., Ithaca, N.Y.
fats; fatty acids; intestinal absorption; palmitic acid; stearic acid; oleic acid; linoleic acid; triglycerides; bile

AM-04703 LANDON, ERWIN J., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
deoxycorticosterone; oxidation; cell components.. mitochondria; cell components..endoplasmic reticulum; glycolysis; ions..cation; kidney; phosphatases..adenosine triphosphatase

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LISTING OF GENERAL RESEARCH AREAS

METABOLISM (CONTD)

AM-04705 **BAKER, NOME,** Sch. Med., Univ. California, Los Angeles, Cal.
glucose; fats; diabetes; blood..plasma; radiolabeled carbon; polysaccharides; liver; tissue; diet; mathematical models

AM-04706 **SCHOTZ, MICHAEL C.,** Sch. Med., Univ. California, Los Angeles, Cal.
carbon tetrachloride; liver; triglycerides; cell components; radiolabeled carbon; palmitic acid; lipoproteins; fats; electron microscopy; enzymes; saturated fatty acids; unsaturated fatty acids; phospholipids

AM-04707 **MAJOR, CHARLES W.,** Univ. Maine, Orono, Me.
uracil analogs; amino acid; liver; regeneration; thyroid hormones

AM-04708 **SELTZER, HOLBROOKE S.,** Univ. Texas Southwestern Med. Sch., Dallas, Tex.
insulin; hormones standardization; glucose; carbohydrates; immunology; diabetes; hypoglycemia; growth hormones

AM-04714 **RAMEY, ESTELLE R.,** Sch. Med., Georgetown Univ., Washington, D.C.
adrenalectomy; guanosine phosphates; stress; thymus; heart..myocardium; adrenal glands; pituitary gland; muscle ..skeletal muscle; fatty acids; blood sugar; fats; blood pressure; glycogen; nitrogen; liver; potassium; oxygen consumption

AM-04718 **GOURLEY, DESMOND R.H.,** Sch. Med., Univ. Virginia, Charlottesville, Va.
insulin; carbohydrates; oxidation; muscles..skeletal muscle; radiolabeled carbon; reaction sites; anti-metabolites

AM-04722 **WINEGRAD, ALBERT I.,** Hosp. Univ. Pennsylvania, Philadelphia, Pa.
diabetes; uronic acids; arteries..aorta; glucuronic acid; glucose; insulin; glucocorticoids; hyperglycemia; sulfonylurea..arylsulfonylureas; diet; pentoses

AM-04790 **ASHMORE, JAMES,** Sch. Med., Indiana Univ., Indianapolis, Ind.
amino acid; proteins; diabetes; radiolabeled carbon; adrenalectomy; glyconeogenesis; liver; glucose; oxidation; pyruvate; glutamates

AM-04792 **NYE, WILLIAM H.R.,** Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
phospholipids; nephrotic syndrome; therapy; diet; heparin; cortisone; lipids..plasma lipids; hyperlipemia; ethanol

AM-04829 **SHIPP, JOSEPH C.,** Sch. Med., Univ. Florida, Gainesville, Fla.
glucose; radiolabeled carbon; palmitic acid; lipids; glycogen; cell; membrane permeability and transport; heart..myocardium

AM-04842 **WOOL, IRA G.,** Univ. Chicago, Chicago, Ill.
adrenal cortex hormones; adrenalectomy; diaphragm; insulin; nucleic acids; nucleotides; proteins; radio-labeled carbon

AM-04876 **CHAVIN, WALTER,** Grad. Sch., Wayne State Univ., Detroit, Mich.
carbohydrates; glucose; blood sugar; endocrine glands

AM-04886 **CAREN, RAYMOND,** Mount Sinai Hosp., Los Angeles, Cal
arachidonic acid; pancreas; pancreatic diseases

AM-04927 **KRONFELD, DAVID S.,** Sch. Vet. Med., Univ. Pennsylvania, Kennett Square, Pa.
hypoglycemia; ketone bodies; glucose; growth hormones; nicotinamide; coenzyme; lipids; insulin

AM-04931 **STEINER, DONALD F.,** Grad. Sch., Univ. Chicago, Chicago, Ill.
liver; diabetes; glycosyltransferases..UDP glucose : α--1,4--glucan α--4--glycosyltransferase; insulin; glycogen

AM-04961 **SARCIONE, EDWARD J.,** Health Research, Inc., Buffalo, New York
glycoproteins; liver; radiolabeled carbon; hexoses; cell components, ribosomes; galactose; proteins

AM-04965 **LEONARD, SAMUEL L.,** Sch. Arts, Sci., Cornell Univ., Ithaca, New York
hormones; glycogen; sex hormones; glycosyltransferases, UDP glucose; D-glucose-6-phosphate 1-glycosyltransferase; uterus..myometrium; glycogenolysis; phosphorylases; muscle..skeletal muscle; heart..myocardium; liver

AM-04967 **KOHN, PAUL,** Sch. Med., U. Illinois, Chicago, Ill.
intestinal absorption; carbohydrates; thyroxine; phlorizin; D-aldohexoses; D-aldopentoses

AM-04969 **RULIFFSON, W. S.,** Grad. Sch., Kansas State Univ., Manhattan, Kansas
ligands; radiolabeled iron; intestinal absorption; iron

AM-04996 **DAVIS, MATTHEW D.,** Sch. Med., Univ. Wisconsin, Madison, Wis.
diabetic retinopathy; adrenal cortex hormones; pituitary gland; adrenal glands; pancreas; somatotropin; hypophysectomy; genetics; obesity; hyperglycemia; growth hormones; transplantation; pituitary neoplasms; diabetes; primates..monkeys

AM-05004 **CHOW, BACON F.,** Sch. Hyg., Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
acetates; amino acid; body weight; cholesterol; dietary deficiency; fats; liver; mevalonic acid; radiolabeled carbon; thyroid gland; vitamin B12

AM-05057 **ROUSSOS, GERASSIMOS G.,** Veterans Admin. Hosp., Kansas City, Mo.
uric acid; oxidoreductases..hypoxanthine oxidase; phosphomonoesterases; beans

AM-05084 **THAYER, SIDNEY A.,** Sch. Med., St. Louis Univ., St. Louis, Mo.
cell; deoxyribonucleic acid; growth; progesterone; prolactin; reproduction; transcarbamylases..aspartate transcarbamylase; uterus

AM-05116 **ROYCE, PAUL C.,** Van Etten Hosp., Bronx, N.Y.
kidney; growth factors; bioassay; nephrectomy

AM-05117 **SCRIVER, CHARLES R.,** Montreal Children's Hosp., Montreal, Canada
genetics; coenzyme; proline; hydroxyproline; glycine; membrane permeability and transport; aminoaciduria; vitamin D; kidney..renal tubular transport; ion exchange and transport; lipids; vitamin B6 complex; amino acid; parathyroid hormones; tryptophan; conjugates

AM-05222 **MOSBACH, ERWIN H.,** Pub. Hlth, Inst. City New York, N.Y.C.
bile acids and salts; diet; cholesterol; cholestanol; androgens; 17α-methyltestosterone; neomycin

AM-05223 **ROBERTSON, WILLIAM vanB.,** Sch. Med., Stanford Univ., Palo Alto, Cal.
proline; hydroxyproline; ascorbic acid; glucose; mucopolysaccharides; radiolabeled carbon; urine; hyaluronic acid; chondroitin sulfate; collagen; tyrosine; carrageenan; sulfates; granuloma; scurvy; immunology..antigens

AM-05235 **WELLS, IBERT C.,** Sch. Med., Creighton Univ., Omaha, Nebr.
2-amino-2-methylpropanol; choline; choline inhibitors; methionine; reaction sites

AM-05290 **GUIDOTTI, GUIDO G.,** Sch. Med., Univ. Milano, Milano, Italy
heart; glucose; membrane permeability and transport; 2--deoxy--D--glucose; radiolabeled carbon; α--D--1--phosphate; phosphomonoesterases..glucose phosphatases; glycolysis; peptides; lipids; proteins; insulin; phosphotransferases..ATP: D--hexose 6--phosphotransferase

AM-05304 **BLOOMFIELD, DANIEL K.,** University Hosps., Cleveland, Ohio
bile acids and salts; cholesterol; enzymes; intestinal absorption; sterols; therapy

AM-05333 **SCHIFF, LEON,** Cincinnati Gen. Hosp., Cincinnati, Ohio
adenosine triphosphate; perfusion; fatty liver; diet; adenine; NAD; coenzyme A; vitamin B12; hepatotoxins; liver diseases; liver; alcohols; bilirubin; hydrocortisone

AM-05349 **SHELTON, DAMON C.,** Sch. Med., West Virginia Univ., Morgantown, W.Va.
blood proteins..plasma proteins; cholesterol; fatty acids; intestinal absorption; lipids; lymph

AM-05384 **TCHEN, TCHE-TSING,** Grad. Sch., Wayne State Univ., Detroit, Mich.
cholesterol; pregnenolone; hormones; chromatophores; cell division; cell differentiation; putrescine; mitomycin C; nucleic acids; deuterium; bacteria..Escherichia coli; binding; oxidoreductases..succinate dehydrogenase; succinic acid; viruses..bacteriophage T2; spermidine

AM-05386 **CARPENTER, MARY P.,** Oklahoma Med. Res. Inst., Oklahoma City, Okla.
testis disorders; tocopherol; dietary deficiency; gonadectomy; glycolysis; respiration; ascorbic acid; liver; peroxidation; lipids

AM-05387 **FROESCH, E. RUDOLF,** Univ. Zurich, Zurich, Switzerland
fructose--intolerance, hereditary; hypoglycemia; liver; glucose; blood cells..erythrocytes; blood cells.. leukocytes; phosphorylation; adipose tissue; intestines.. jejunum; fructose; dental caries; diet; hexoses; diabetes; lipolysis; insulin

AM-05388 **PLATNER, WESLEY S.,** Sch. Med., Univ. Missouri, Columbia, Mo.
fatty liver; magnesium; lipids; diet; cold; palmitic acid; radiolabeled carbon; carbon dioxide; tissue respiration

AM-05392 **YOSHIDA, TSUNEO,** Sch. Med., Osaka Univ., Osaka, Japan
liver cirrhosis; ethnic groups..Japanese; diet; liver diseases; nucleotides; mucopolysaccharides; therapy; radiolabeled carbon; radiolabeled sulfur; socioeconomics; longitudinal study

AM-05472 **ELSBACH, PETER,** New York Univ. Med. Cr., N.Y.C.
blood cells..leukocytes; fatty acids; lipases; lipids; phagocytosis

AM-05474 **BASS, ALLAN D.,** Sch. Med. Vanderbilt Univ., Nashville, Tenn.
hormones; amino acid

AM-05475 **BLECHER, MELVIN,** Sch. Med., Dent., Georgetown Univ., Washington, D.C.
adrenal cortex hormones; membrane permeability; steroids; oxidation; hydrolysis; phosphates..phosphoric esters; glycolysis; fatty acids; neoplasms

AM-05486 **HENEGAR, GEORGE C.,** Sch. Med., Northwestern Univ., Chicago, Ill.
blood proteins..plasma proteins; blood vessel shunts.. portacaval shunt; hepatectomy; transplantation..homotransplantation; radiolabeled sulfur; liver transplantation; radiolabeled carbon; methionine; leucine; blood coagulation..fibrinogen

AM-05487 **WEINHOUSE, SIDNEY,** Sch. Med., Temple Univ., Philadelphia, Pa.
blood sugar; hormones; diet; environment; radiolabeled carbon; glucose; liver function; insulin; diabetes; cancer; fatty acids

AM-05493 **CAHILL, GEORGE F., Jr.**, Baker Clinic Res. Lab., Boston, Mass.
carbon; insulin; islands of Langerhans; proteins; temperature

AM-05572 **SPENCER, HERTA**, Hines Veterans Admin. Hosp., Chicago, Ill.
aging; bone density; calcium; diet; hormones; immobilization; intestinal absorption; minerals; proteins; radiolabeled calcium; strontium; vitamin D

AM-05606 **HOEKSTRA, WILLIAM G.**, Col. Agri., Univ. Wisconsin, Madison, Wis.
calcium; dietary deficiency; metalloenzymes; radiolabeled; skin; zinc

AM-05622 **BEATTY, CLARISSA H.**, Oregon Regional Primate Res. Cr., Beaverton, Ore.
aging; amino acid; fetus; glucagon; glycolysis; hexose monophosphate pathway; hypoxia; infants (animals); insulin; ketone bodies; Krebs cycle; muscle..skeletal muscle; primates..monkeys; radiolabeled carbon; tissue respiration

AM-05676 **GRILLO, MARIA A.**, Sch. Med., Inst. di Chimica Biologica, Torino, Italy
serine; bacteria..Escherichia coli; pyruvate; ammonia; chemical structure; biotin; enzymes; radiolabeled carbon; liver

AM-05684 **ADAMKIEWICZ, VINCENT W.**, Univ. Montreal, Montreal, Canada
glucose; nutrition; hypersensitivity; blood sugar; sugars

AM-05685 **WICK, ARNE N.**, San Diego State Col., San Diego, Cal.
insulin; chemical structure--biological activity; 6--deoxy--D--glucose; glucose analogs; membrane permeability and transport; phenethylbiguanide; radiolabeled carbon; radiolabeled phosphorus; Crabtree effect; Ehrlich ascites carcinoma; 2--deoxy--D--glucose; sulfhydryls; hypoglycemia; amides; oxidoreductases.. glucose dehydrogenase

AM-05701 **SIMON, ERNST**, Weizmann Inst. Sci., Rehovoth, Israel
mannoheptulose; diabetes; insulin; islands of Langerhans ..beta cells; pancreas; glucose; radiolabeled carbon

AM-05735 **HAUSBERGER, FRANZ X.**, Jefferson Med. Col., Philadelphia, Pa.
ACTH; adipose tissue; epinephrine; fasting; fats; growth hormones; nervous system, sympathetic nervous system

AM-05776 **BOYLE, ALBERT J.**, Col. Liberal Arts, Wayne State Univ., Detroit, Mich.
amino acid; arthritis..rheumatoid arthritis; chemotherapy; collagen diseases; connective tissue diseases; 2,5-dihydroxyphenylpyruvic lactone; spectrophotofluorometry; tyrosine

AM-05871 **COLWELL, JOHN A.**, Veterans Admin. Res. Hosp., Chicago, Ill.
insulin; liver; fatty acids; glucose; sulfonylurea; diabetes; family; genetics

AM-05877 **ALPERS, JOSEPH B.**, Sch. Med., Harvard Univ., Boston, Mass.
carbohydrates; cell; glycogen; glucose; glycosyltransferases..UDP glucose : α--1,4--glucan α--4--glycosyltransferase; phosphorylases; HeLa cells; adenosine monophosphate; glucose phosphates; liver

AM-05891 **HENNES, ALLEN R.**, Sch. Med., Wayne State Univ., Detroit, Mich.
lipids; radiolabeled carbon; acetates; diabetes; blood cells..thrombocytes

AM-05905 **FRIED, GEORGE H.**, Beth Israel Hosp., New York, N.Y.
obesity hereditary hyperglycemia; stress; oxidoreductases ..dehydrogenases; oxygen consumption; hormones; therapy; endotoxins; bacteria; gold thioglucose; genetic strains

AM-05930 **ROBINSON, ROSCOE R.**, Sch. Med., Duke Univ., Durham, N.C.
ammonia; kidney; acidosis; alkalosis; respiration; potassium; dietary deficiency; acetazolamide; glutamine; Krebs cycle; kidney function; micropuncture; electrolytes; organic acids

AM-05931 **LISS, MAURICE**, Boston Dispensary, Boston, Mass.
proteins; amino acids; nucleic acids; keratinization; skin; nucleases; ribonucleic acid; psoriasis; radiolabeled carbon

AM-05956 **KLATSKIN, GERALD**, Sch. Med., Yale Univ., New Haven, Conn.
ethanol; liver damage; transmethylation; hyperlipemia; viruses; granuloma; fatty acids; hepatotoxins; fatty liver

AM-05968 **GOODMAN, DEWITT S.**, Col. Phys., Surg., Columbia Univ., New York, N.Y.
cholesterol esters; chylomicrons; lymph; intestines; cholesterol; squalene; vitamin A; intestinal absorption; carotene

AM-05970 **SCHRAER, ROSEMARY**, Grad. Sch., Pa. State Univ., University Pk., Pa.
binding; calcium; calcium carbonate; cell components ..mitochondria; egg shell; oviduct; phylogeny; tissue respiration

AM-05976 **SELLERS, ALVIN F.**, Vet. Col., Cornell Univ., Ithaca, N.Y.
carbohydrates; ketone bodies; radiolabeled carbon; carbon dioxide; pregnancy; starvation; hypoglycemia

AM-05981 **BECK, LYLE V.**, Sch. Med., Indiana Univ., Bloomington, Ind
trauma; sulfhydryls; radiolabeled sulfur; cysteine; disulfides

AM-06000 **SULLIVAN, JAMES F.**, Sch. Med., Creighton Univ., Omaha, Nebr.
catalase; dehydrogenases..alcohol dehydrogenase; ethanol; liver; liver cirrhosis; regeneration; therapy; zinc

AM-06031 **FANCHER, JAMES A.**, Albert Einstein Med. Cr., Philadelphia, Pa.
pancreatic cystic fibrosis; mucous membrane; intestines.. colon; mucus; carbohydrates; radiolabeled carbon; organ culture; tissue preservation

AM-06050 **BEERS, RONALD F., Jr.**, Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
age; barium; bone; calcification; growth; radiation effects; radioisotopes..barium; radiolabeled barium

AM-06083 **ALPERT, NORMAN R.**, Col. Med., Univ. Illinois, Chicago, Ill.
hypoxia; carbohydrates; anaerobiosis; glycolysis

AM-06087 **KLEEMAN, CHARLES R.**, Mt. Sinai Hosp., Los Angeles, Cal.
parathyroid hormones; calcium; phosphorus; body fluids; vitamin D

AM-06089 **BINKLEY, FRANCIS O.**, Emory Univ., Atlanta, Ga.
kidney function; enzymes; kidney..renal tubular transport; amino acid; glucose; water-electrolyte balance; ion; brush border membrane; aminoaciduria

AM-06115 **GRODSKY, GEROLD M.**, Univ. California Med. Cr., San Francisco, Cal.
tritium; bilirubin; vitamin K; sulfonamides; phenylhydrazine; perfusion; bile; hepatitis; liver cirrhosis; cytology; cell components..lysosomes

AM-06138 **FELDMAN, DONALD**, Grad. Sch., Rutgers Univ., New Brunswick, N.J.
aldosterone; oxidases; electrolytes; sodium; kidney; oxidative phosphorylation; tissue respiration

AM-06181 **LACY, PAUL E.**, Sch. Med., Washington Univ., St. Louis, Mo.
insulin inhibitors; diabetes; tolbutamide; cortisone; growth hormones; fats

AM-06182 **McKUSICK, ANNE B.**, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
arthritis..rheumatoid arthritis; tryptophan

AM-06183 **FREEDBERG, IRWIN M.**, Beth Israel Hosp., Boston, Mass.
amino acid; chemical structure; proteins; radiolabeled; skin; skin diseases

AM-06184 **BERG, CLARENCE P.**, Sch. Med., State Univ. Iowa, Iowa City, Iowa
histidine; glycogen; diet; urocanic acid; ethionine; metabolites; radiolabeled carbon; D--histidine; acetazolamide

AM-06186 **CHASE, ELIZABETH B.**, Sch. Liberal Arts, Univ. Rhode Island, Kingston, R.I.
adrenal cortex hormones; blood sugar; fasting; glucose; glycogen; hypoglycemia; insulin; insulin tolerance (resistance); liver; temperature

AM-06205 **RAISZ, LAWRENCE G.**, Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
bone; parathyroid hormone; bioassay; growth; tissue culture; body fluids; minerals; parathyroid glands; calcium

AM-06206 **BOLE, GILES G., Jr.**, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
lipoproteins; connective tissue; radiolabeled phosphorus; radiolabeled carbon; glycerin; phospholipids; inflammation; hormones; drugs; ground substance; polyvinyl alcohol; injuries..wounds; synovial fluid; arthritis.. rheumatoid arthritis; glycolipids; ribonucleotides

AM-06207 **ELIEL, LEONARD P.**, Oklahoma Med. Res. Inst., Oklahoma City, Okla.
bone resorption; acid; parathyroid hormones; neoplasms; proteins; polypeptides; calcium; magnesium; radiolabeled calcium; radiolabeled magnesium

AM-06208 **BLECHER, MELVIN**, Sch. Med., Dent., Georgetown Univ., Washington, D.C.
fatty acids; oxidation; enzymes; liver; cell components.. cytoplasm; cell components..mitochondria; endocrine glands disorders

AM-06210 **ADROUNY, GEORGE A.**, Sch. Med., Tulane Univ., New Orleans, La.
diet; enzymes; fasting; glycogen; growth hormones; heart ..myocardium; muscle..skeletal muscle

AM-06245 **HEGSTED, DAVID M.**, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
diet; chemical structure; primates..monkeys; fats; adipose tissue; fatty acids; lipids blood; cholesterol

AM-06268 **SKINNER, DOROTHY M.**, Sch. Med., New York Univ., N.Y.C.
muscle; muscle proteins; molting

AM-06305 **RECANT, LILLIAN**, Sch. Med., Washington Univ., St. Louis, Mo.
diabetes; somatotropin; adipose tissue; lipogenic inhibitors; prediabetes; insulin inhibitors

AM-06306 **ROBINSON, ROSCOE R.**, Sch. Med., Duke Univ., Durham, N.C.
laboratory facilities; amino acid; ammonia; blood flow; blood proteins..serum proteins; kidney..renal tubular transport

AM-06319 **WHITE, VANDON E.**, Undergrad. Sch., Southern Univ., A&M Col., Baton Rouge, La.
cholesterol; lipids..serum lipids; thiouracil; tissue respiration; insulin; magnesium; diet; thyroid gland; adrenal glands

(contd)

METABOLISM (CONTD)

AM-06334 LOMBARDI, BENITO, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
chemical structure; fatty liver; glucose; lipoproteins.. serum lipoproteins; liver cells; phospholipids; triglycerides

AM-06345 ROSENTHAL, WILLIAM S., New York Med. Col., N.Y.C.
liver

AM-06346 WOLF, GEORGE, Grad. Sch., Massachusetts Inst. Tech., Cambridge, Mass.
amino acid; radiolabeled carbon; hydroxyproline; proline; methacholine; carnitine; binding; phospholipids

AM-06362 KLEIN, EDMUND, Health Research, Inc., Buffalo, N.Y.
lipids..serum lipids; blood coagulation..prothrombin; blood coagulation..thromboplastin; phosphatidyl ethanolamine; lecithin; lipases..lipoprotein lipase; triglycerides; lipoproteins; membrane permeability and transport; lipase.. pancreatic lipase; lasers; radiation effects

AM-06442 COSTELLO, LESLIE C., Sch. Pharm., Univ. Maryland, Baltimore, Md.
parathyroid hormones; glycolysis; phosphomonoesterases.. alkaline phosphatase; phosphomonoesterases..glycose--6--phosphatase; phosphomonoesterases..acid phosphatase; phosphatases..adenosine triphosphatase; oxidative phosphorylation; oxidoreductases..lactate dehydrogenases; oxidoreductases..succinate dehydrogenase; oxidoreductases..isocitrate dehydrogenase; oxygen consumption; Krebs cycle; radiolabeled phosphorus

AM-06468 CORNWELL, DAVID G., Sch. Med., Ohio State Univ. Res. Fdn., Columbus, Ohio
proteins; liver; hyperlipemia; diabetes; ketone bodies; lipoproteins; antimetabolites; lipids..plasma lipids; neoplasms; dietary deficiency; orotic acid; fatty liver; ethionine; diet; obesity; feeding behavior; lipotropic factors

AM-06469 AUERBACH, VICTOR H., St. Christopher's Hosp. for Children, Philadelphia, Pa.
children; endocrine glands disorders; diabetes; hypoglycemia, leucine induced; acanthrocytosis; metabolic diseases inborn; pancreatic cystic fibrosis; thyroid gland disorders; glycogenosis; histidinemia; congenital abnormalities; aminoaciduria

AM-06510 BEIGELMAN, PAUL M., Sch. Med., Univ. Southern California, Los Angeles, Cal.
adipose tissue; age; blood proteins..serum proteins; diabetes; glucose; hormones; insulin; radiolabeled carbon

AM-06511 GOLDSTEIN, LEON, Sch. Med., Harvard Univ., Boston, Mass.
acidosis; ammonia; amidohydrolases..glutaminase; amino acid; ammonium chloride; kidney

AM-06535 PAULSEN, ELSA P., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
children; diabetes; growth; growth hormones; hormones; insulin; insulin inhibitors; longitudinal study; therapy; tolbutamide

AM-06536 SILVERSTONE, FELIX A., Maimonides Hosp., Brooklyn, N.Y.
diabetes; diagnostic tests; glucose tolerance; longitudinal study; pregnancy; tolbutamide tolerance

AM-06537 SINGLETON, JOHN W., Univ. Colorado Med. Cr., Denver, Colo.
heme; radiolabeled; bilirubin; bile pigments; amino acid; biliary tract diseases

AM-06570 TUCKER, VIRGINIA L., Univ. Kansas Med. Cr., Kansas City, Kans.
acidosis; bicarbonates; cell fluids; diabetes; 5,5-dimethyl-2,4-oxazolidinedione; hydrogen-ion concentration; ketoacids; potassium; sodium; therapy

AM-06619 HOWELL, DAVID B., Sch. Med., Univ. Miami, Miami, Fla.
hydroxyapatite; molecular size; molecular shape; collagen; solutions inclusions; precipitation; micelle formation (chemistry)

AM-06665 LOUIS, LAWRENCE H., University Hosp., Ann Arbor, Mich.
polypeptides; chemical structure--biological activity; glucose tolerance; insulin (resistance) tolerance; diabetes lipoatrophic

AM-06667 FLUHARTY, ARVAN L., Sch. Med., Univ. Southern California, Los Angeles, Cal.
radiolabeled carbon; synthesis; tetritols; tetroses

AM-06668 HORLICK, LOUIS, Univ. Hosp., Saskatoon, Saskatchewan, Canada
skin; arteries; sterols; hormones; triparanol; metabolic diseases; diethylstilbestrol; liver; bile acids and salts

AM-06670 BIERMAN, EDWIN L., Sch. Med., Univ. Washington, Seattle, Wash.
diabetes; hyperlipemia; carbohydrates; diet; intestinal absorption; radiolabeled carbon; lipids; longitudinal study; glucagon

AM-06671 KAPLAN, DAVID A., Downstate Med. Cr., State Univ., New York, Brooklyn, N.Y.
amino acid; chlorothiazide; gout; kidney..renal tubular transport; uric acid

AM-06673 ALLRED, JOHN B., Undergrad. Sch., Oklahoma City Univ., Oklahoma City, Okla.
ketone bodies; radiolabeled carbon

AM-06711 GUNDERSEN, KARE, Boston Dispensary, Boston, Mass.
amino acid; diabetes; glucose; insulin; ketone bodies; pancreas; radiolabeled carbon

AM-06721 COLE, C.L., Grad. Sch., Univ. Minnesota, St. Paul, Minn.
gastrointestinal system; lipids; lipoproteins; liver; mammary gland; radiolabeled; stomach..rumen

AM-06728 RELMAN, ARNOLD S., Mass. Memorial Hospitals, Boston, Mass.
acid-base equilibrium; acidosis; carbon dioxide; calcium; diagnostic tests; hydrogen-ion concentration; kidney; muscle; organic acids

AM-06751 BEYER, ROBERT E., Grad. Sch., Univ. Wisconsin, Madison, Wis.
adenosine diphosphate; binding; cell components.. mitochondria; electron transport; oxidative phosphorylation; phosphorylation

AM-06795 SCHWARTZ, ROBERT, Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
diabetes; diet; glucose; homeostasis; hypoglycemia; infants (animal)..newborn; infants (human)..newborn; liver; pregnancy..placental transfer; radiolabeled carbon

AM-06810 LANDAU, BERNARD R., Sch. Med., Western Reserve Univ., Cleveland, Ohio
hexoses; intestinal absorption; brush border membranes; phosphatases; sugar nucleotides; tritium; glucose; fructose

AM-06815 SIDBURY, JAMES B., Jr., Duke Univ. Med. Cr., Durham, N.C.
enzymes; metabolic diseases inborn; genetics..heterozygotes; metabolites; glycogenosis; glycogen; blood cells..erythrocytes; galactosemia; nucleotides; adenine; radiolabeled carbon; aminoaciduria; maple syrup urine disease; cerebro--oculo--renal syndrome; carbohydrate metabolic disorders; mucopolysaccharidosis; lipoidal diseases

AM-06825 BLOCK, WALTER D., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
histidine; methylhistidines; imidazoles; diet; methionine; psoriasis; radiolabeled carbon; antimetabolites; folic acid antagonists

AM-06838 BADEN, HOWARD P., Massachusetts Gen. Hosp., Boston, Mass.
keratinization; carcinogenesis; cell components..ribosomes; amino acid; proteins; ribonucleic acid; skin neoplasms; carcinogens; cell-free systems; antimetabolites; radiolabeled carbon

AM-06840 OSTROW, J. DONALD, Lakeside Hosp., Cleveland, Ohio
bilirubin; bilirubin glucuronides; liver; albumins..serum albumins; binding; cholesterol; temperature; hypoxia; bile acids and salts; antimetabolites; kernicterus; hemolysis; bile pigments; radiolabeled carbon; membrane permeability; gallbladder

AM-06841 FUSARO, RAMON M., Univ. Minnesota Hosps., Minneapolis, Minn.
glycogen; bioassay; carbohydrases..α1,4--glucan glucohydrolase; fungi..Aspergillus niger; radiolabeled carbon

AM-06865 FIELD, JAMES B., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
thyrotropin; thyroid gland; cell-free systems; oxidative phosphorylation; phosphotransferases.. ATP:NAD2'-phosphotransferase; NADP; NADPH2; acetylcholine; epinephrine; serotonin; perfusion; radiolabeled carbon

AM-06878 DIEDRICH, DONALD F., Col. Med., Univ. Kentucky, Lexington, Ky.
phlorizin; intestinal absorption; radiolabeled carbon; cell components..cell membrane; molecular structure; binding; glucose; drugs receptors; drugs interaction

AM-06935 GOODMAN, HENRY M., Sch. Med., Harvard Univ., Boston, Mass.
adipose tissue; amino acid; carbohydrates; esterification; fatty acids; ketone bodies; lipases; lipids; liver; proteins; somatotropin; triglycerides

AM-06955 FIELD, JAMES B., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
aminotransferases; cell; dehydrogenases..glutamic dehydrogenase; diet; enzymes; enzymes inhibitors; ethanol; fasting; glycogen; glycogenesis; glyconeogenesis; hypoglycemia; liver; NAD; perfusion; radiolabeled carbon

AM-06983 BARTLETT, PAUL D., Henry Ford Hosp., Detroit, Mich.
cell components..mitochondria; 6-dimethylamino-9-(3'-amino-3'-deoxy-β-D-ribofuranosyl)-purine; enzymes inhibitors; ion; kidney; Krebs cycle; nephrosis; phosphatases..adenosine triphophatase; phospholipids; phosphorylation; potassium; radiolabeled carbon; radiolabeled phosphorus; sodium

AM-07033 REYNOLDS, ORLAND B., Middlebury Col., Middlebury, Vermont
bile; carboxylic acids; ion..anion; kidney..renal tubules; liver function; organic acids; sulfates..sulfuric esters; sulfonates

AM-07034 METCOFF, JACK, Michael Reese Hosp., Med. Cr., Chicago, Ill.
malnutrition; death; muscle cells; water-electrolyte balance; Kwashiorkor; glycolysis; organic acids; enzymes; cell components; blood cells..leukocytes; venous infusions; children; glucose; radiolabeled carbon

AM-07089 **HENNES, ALLEN R.**, Col Med. Wayne State Univ., Detroit, Mich.
lipids; phospholipids; fatty acids; sterols; cholesterol esters; triglycerides; blood..plasma; blood cells..thrombocytes; esterification; diabetes; vascular disorders; glucose; acetates; radiolabeled carbon; atherosclerosis; diet; saturated fats

AM-07091 **SCHMID, RUDI**, Univ. Chicago, Chicago, Ill.
bile pigments; liver diseases; bilirubin; radiolabeled carbon; proteins; binding; genetics; liver; hemoglobin; blood cells..erythrocytes; intestinal absorption; conjugates

AM-07126 **JOHNSTON, CYRUS C., Jr.**, Sch. Med., Indiana Univ., Indianapolis, Ind.
bone disorders; metabolic diseases; ground substance; hexosamines; mucoproteins; proline; hydroxyproline; collagen; parathyroid hormones; calcitonin; radiolabeled carbon; radiolabeled calcium; glucose

AM-07201 **VAN BRUGGEN, JOHN T.**, Sch. Med., Univ. Oregon, Portland, Oregon
acetates; ethanol; metabolites; radiolabeled carbon

AM-07202 **STAPLE, EZRA**, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
bile acids and salts; cell components..microsomes; cell components..mitochondria; cell-free systems; cholesterol; enzymes; liver; radiolabeled; species

AM-07211 **ASHMORE, JAMES**, Indiana Univ. Med. Sch., Indianapolis, Ind.
adipose tissue; adrenal cortex hormones; diabetes; glucose; immunology..antibodies; insulin; insulin inhibitors; lipids; liver diseases; sympatholytic agents

AM-07212 **HOLLENBERG, CHARLES H.**, McGill Univ., Montreal, Canada
hormones; lipids; adipose tissue; diabetes; triglycerides; carbohydrates; fasting

AM-07237 **NORCIA, LEONARD N.**, Sch. Med., Temple Univ., Philadelphia, Pa.
cholesterol; oxidation..auto-oxidation; bile acids and salts; liver; biliary tract; triparanol; acetates; radiolabeled carbon

AM-07243 **CHIPAULT, JACQUES R.**, Grad. Sch., Univ. Minnesota, Austin, Minn.
lipids; oxidants; nitrogen compounds; pigmentation disorders; unsaturated fatty acids; diet

AM-07249 **CHATAGNER, FERNANDE**, Faculte Sciences l'Universite Paris, Paris, France
liver; pyridoxal phosphate; enzymes; hormones; thyroid hormones; enzyme substrate analogs; antimetabolites; ethionine; adrenalectomy; cortisone; cystathionine; decarboxylases

AM-07265 **NISHIKAWARA, MARGARET T.**, Col. Med., Ohio State Univ., Columbus, Ohio
dehydrogenases..glutamic dehydrogenase; oxidation; α--ketoglutarate; glutamates; diet; proteins; fasting; hormones; ulorizin; liver; histogenesis

AM-07361 **HENLEY, KEITH S.**, Univ. Michigan Med. Cr., Ann Arbor, Mich.
liver diseases; enzymes; cell components..mitochondria; enzyme substrate; NADP(H2); oxygen consumption; pyridine nucleotides

AM-07364 **HARLAN, WILLIAM R., Jr.**, Med. Col. Virginia, Richmond, Va.
fatty acids; liver; brain; cell components..mitochondria; cell components..microsomes; fasting; insulin; proteins; enzymes; coenzyme A analogs; radiolabeled carbon; diabetes..alloxan diabetes; lung; fetus

AM-07365 **TIPTON, SAMUEL R.**, Univ. Tennessee, Knoxville, Tenn.
liver; cell components..mitochondria; oxidases..cytochrome oxidases; dehydrogenases..succinate dehydrogenase; proteins; nucleic acid; growth; thyroxine; adrenal cortex hormones; growth hormones

AM-07391 **TRUCCO, RAUL E.**, Univ. Buenos Aires, Buenos Aires, Argentina
tocopherol; lipids; peroxidation; phosphates; muscular dystrophy; blood cells..erythrocytes; diaphragm; radiolabeled phosphorus; membrane permeability and transport; dietary deficiency

AM-07556 **ELWYN, DAVID H.**, Hektoen Inst., Chicago, Ill.
amino acids; diet; proteins; blood; liver; radiolabeled; intestines; phospholipids; choline; dietary deficiency

AM-07633 **SELLERS, ALVIN L.**, Cedars Lebanon Hosp., Los Angeles, Cal.
albumins..serum albumin; nephrosis; radiolabeled iodine; liver function; kidney function; gastrointestinal system

AM-07654 **FORSHAM, PETER H.**, Univ. California Med. Cr., San Francisco, Cal.
bioassay; chemical structure--biological activity; glucose; insulin; membrane permeability; oxytocin; sodium; urinary bladder; vasopressin

AM-07656 **CRAIG, JAMES W.**, University Hosps., Cleveland, Ohio
diabetes; epinephrine; glycogen; glycosyltransferases.. UDP glucose: α-1,4-glucan α-4-glycosyltransferase; insulin

AM-07663 **LA DU, BERT N., Jr.**, New York Univ. Med. Cr., N.Y.C.
ascorbic acid; chemical structure--biological activity; enzymes inhibitors; folic acid; hydroxylases..p-hydroxyphenylpyruvate hydroxylase; p-hydroxyphenyl pyruvic acid; oxidation; phenylketonuria; pteridines; tyrosine

AM-07672 **BALDWIN, RANSOM L.**, Col. Agr., Univ. California, Davis, Cal.
cell division..mitosis; deoxyribonucleic acid; enzymes; hormones; lactation; mammary gland; pregnancy; species

AM-07714 **GLENN, JOSEPH L.**, Albany Med. Col., Albany, N.Y.
cardiolipins; cell components..mitochondria; fat-free diet; fatty acids; fatty liver; linoleic acid; liver; phosphatidyl choline; phosphatidyl ethanolamine; phosphatidyl inositol; phosphatidyl serine; phospholipids; radiolabeled carbon; radiolabeled phosphorus

AM-07736 **TRAVIS, LUTHER B.**, Univ. Texas Med. Cr., Galveston, Texas
binding; bioassay; children; diabetes; immunology..antibodies; insulin

AM-07796 **BACCHUS, HABEEB**, Providence Hosp., Washington, D.C.
amino acid; connective tissue; connective tissue diseases; glycoproteins; mucopolysaccharides; mucoproteins; radiolabeled carbon; seromucoid; stable isotope labeled nitrogen; sugar

AM-07821 **SCHILLER, SARA**, Sch. Med., New York Med. Col., N.Y.C.
cell-free systems; chrondroitin sulfate; connective tissue; diabetes; enzymes; glucose; homeostasis; hyaluronic acid; insulin; membrane permeability; mucopolysaccharides; phosphorylation; thyroxine; tritium

AM-07846 **MORRIS, MANFORD D.**, Sch. Med., Univ. Arkansas, Little Rock, Ark.
cholesterol; 3--hydroxysteroids; digitonin; tomatine; tissue; diet; instrumentation--methodology; synthesis

AM-07847 **HIRSCH, ROBERT L.**, Col. Phys., Surg., Columbia Univ. Res. Service, N.Y.C.
adipose tissue; blood flow; fatty acids; kidney; lipid mobilizing factors (pituitary); lipids..plasma lipids; lipoproteins..plasma lipoproteins; liver; triglycerides

AM-07924 **HSIA, S.L.**, Sch. Med., Univ. Miami, Miami, Fla.
hydroxycholanic acids; radiolabeled carbon; tritium; chemical structre; metabolites; bile

AM-07958 **SPENCER, RICHARD P.**, Sch. Med., Yale Univ., New Haven, Conn.
amino acid; amino acid analogs; enzymes; enzymes inhibitors; enzymes substrates; hormones; imino acids; intestinal absorption; membrane permeability

AM-07985 **LEE, YA PIN**, Sch. Med., Univ. North Dakota, Grand Forks, N.D.
carbohydrates; cytochrome; dehydrogenases..glycerophosphate dehydrogenase; enzymes inhibitors; neoplasms; phosphatases; poikilotherms; species; thyroid hormones; tissue respiration

AM-07994 **WEISSMANN, BERNARD**, Col. Med., Univ. Illinois, Chicago, Ill.
allantoin; guanines; methylation; purine; radiolabeled carbon; stable isotope labeled nitrogen

AM-08026 **VILLEE, DOROTHY B.**, Massachusetts Gen. Hosp., Boston, Mass.
adrenal glands; congenital abnormalities; endocrine glands; enzymes; fetus; hydroxylases; metabolic diseases; organ culture

AM-08029 **BO, WALTER J.**, Bowman Gray Sch. Med., Winston-Salem, N.C.
estrogens; fetus; glycogen; infants..animal; intestines; muscle..skeletal muscle; muscle..smooth muscle; phosphotransferases..UTP; alpha-D-glucose-1-phosphate uridyltransferase; phosphorylases; tongue; urinary bladder; uterus..myometrium

AM-08048 **PESCH, LEROY A.**, Sch. Med., Rutgers State Univ., New Brunswick, N.J.
cell components..mitochondria; estrogens; hepatotoxins; lecithin; liver cells; liver damage; liver diseases; molecular structure; oxidases.. NAD(P) transhydrogenase; oxidative phosphorylation; tissue respiration

AM-08050 **KING, J. STANTON, Jr.**, Bowman Gray Sch. Med., Winston-Salem, N.C.
peptides; amino acid analogs; urine; diagnostic tests; ninhydrin; kidney disorders; mental retardation; aminoaciduria

AM-08163 **MANKIN, HENRY J.**, Sch. Med., Univ. Pittsubrgh, Pittsburgh, Pa.
bone..femur; cartilage; cell death; death; joints diseases; proteins; ribonucleic acid; transplantation; trauma

AM-08242 **WAGLE, SHREEPAD R.**, Sch. Med., Indiana Univ., Indianapolis, Ind.
amino acid; bioassay; carbohydrates; diabetes; diet; enzymes; fetalectomy, animal; insulin; insulin inhibitors; pancreas; radiolabeled carbon; tolbutamide

AM-08246 **TRANQUADA, ROBERT E.**, Sch. Med., Univ. Southern California, Los Angeles, Cal.
acidosis; lactates; NAD(H2); acetoacetate; β--hydroxybutyric acid; pyruvate; oxidoreductases..lactate dehydrogenase; genetics; hypoxia; carbohydrates metabolism disorders; radiolabeled carbon

AM-08249 **RIVERS, JERRY M.**, Col. Home Ec., Cornell Univ., Ithaca, N.Y.
adrenal glands; ascorbic acid; bone..epiphyses; cartilage; cell components..microsomes; connective tissue; enzymes inhibitors; epimerization; liver; mucus; oxidases; polysaccharides; pyridine nucleotides; scurvy

AM-08259 **GILBERT, JAMES B.**, West Virginia Univ. Med. Cr., Morgantown, W. Va.
diet; vegetables; thiols; polymorphism; genetics; amino acids; sulfur amino acids; sulfur; mental retardation; children; adults

AM-08267 **HAWTHORNE, BETTY E.**, Sch. Home Ec., Oregon State Univ., Corvallis, Ore.
lipids; blood cells..leukocytes; blood cells..erythrocytes; lipids..serum lipids; diet; metabolic diseases

(CONTD)

METABOLISM (CONTD)

AM-08295 DANOWSKI, T.S., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
ACTH..corticotropin-releasing factor; adrenal cortex hormones; chemotherapy; children; DDD; diabetes; diabetic retinopathy; diagnostic tests; endocrine gland disorders; epinephrine; glomerulosclerosis; glucose tolerance; growth; hypoglycemia; hypopituitarism; immunology..autoantibodies; insulin; obesity; pigments; pituitrin; protein-bound iodine; radiolabeled iodine; research programs; skin; thyroid function; thyroid hormones; thyrotropin

AM-08300 JOHNSON, B. CONNOR, Grad. Sch., Univ. Illinois, Urbana, Ill.
tocopherol; metabolites; liver; cell components; antioxidants

AM-08302 GRAY, SEYMOUR J., Massachusetts Inst. Technology, Cambridge, Mass.
p-aminobenzoic acid; cell components..microsomes; conjugates; gastrointestinal system; hepatic coma; 5-hydroxyindole acetic acid; 5-hydroxyindoles; indole acetic acid; indoxysulfuric acid; jaundice; liver; liver cirrhosis; oxidases..monoamine oxidase; serotonin; serotonin inhibitors; sprue

AM-08329 MAJCHROWICZ, EDWARD, North Carolina Memorial Hosp., Chapel Hill, N.C.
acetaldehyde; alcohols; aldehydes; enzymes; ethanol; fatty acids; lipids; liver; radiolabeled carbon

AM-08333 FIELD, JAMES B., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
glycogenosis; blood cells..leukocytes; intestines..small intestine; phosphorylases; genetics; diagnostic tests; radiolabeled carbon

AM-08366 COURSIN, DAVID B., St. Joseph Hosp., Lancaster, Pa.
biotin; glucose; dietary deficiency; phosphotransferases.. ATP : D--glucose 6--phosphotransferase; insulin

AM-08373 MISTRY, SORAB P., Univ. Illinois, Urbana, Ill.
biotin; glucose; enzymes; dietary deficiency; insulin; pancreas; bioassay; radiolabeled carbon

AM-08391 WILLIAMS, CLYDE M., Sch. Med., Univ. Florida, Gainesville, Fla.
aromatic amines; tyramine; m--tyramine; p--hydroxyphenylethanolamine; tryptamine; radiolabeled; dopamine; neuroblastoma; melatonin; brain neoplasms

AM-08392 KRONFELD, DAVID S., Univ. Pennsylvania, New Bolton Cr., Kennett Square, Pa.
calcium; minerals; pregnancy, postpartum; lactation; hypocalcemia; fasting; intestinal absorption; parathyroid glands; veterinary medicine; radiolabeled calcium; radiolabeled phosphorus

AM-08399 BOUCEK, ROBERT J., Sch. Med., Univ. Miami, Miami, Fla.
aging; cardiovascular system; cell differentiation; fibroblasts; collagen

AM-08402 MASON, H.L., Mayo Assn., Rochester, Minn.
hyperthyroidism; hypothyroidism; cholesterol; fatty acids; liver; sterols; lipids; endocrine glands; glycerides; phospholipids; sterol esters; atherosclerosis

AM-08451 TREBLE, DONALD H., Albany Medical Col., Albany, N.Y.
adipose tissue; coenzyme; epididymal fat pad; fats; hyperglycemic obesity, hereditary; NADH2; obesity; radiolabeled carbon

AM-08453 WALLACH, STANLEY, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
magnesium; liver; ion exchange and transport; radiolabeled magnesium; antimetabolites; thyroid hormones; parathyroid hormone; adrenal cortex hormones; vitamin D; thyroid gland disorders; kidney disorders; liver disorders; alcoholism; adrenal glands disorders; muscles

AM-08475 GOLD, MARTIN, Hahnemann Med. Col. and Hosp., Philadelphia, Pa.
glycerides; instrumentation-methodology; hyperlipemia; gas chromatography

AM-08476 DRYER, ROBERT L., Col. Med., State Univ. Iowa, Iowa City, Iowa
adipose tissue; flavoprotein enzymes; hibernation; body temperature; cell components; electron transport

AM-08523 CAMIEN, MERRILL, Cedars-Sinai Med. Cr., Los Angeles, Cal.
hydrogen--ion concentration; acid--base equilibrium; diet; ions; kidney..renal tubular transport; enzymes; chemical structure--biological activity

AM-08528 HUG, GEORGE, Children's Hosp. Res. Fdn., Cincinnati, Ohio
metabolic diseases, inborn; glycogenosis; children; glycogen; disease classification; diagnostic tests; muscular diseases; brain disorders; phosphorylases; liver; muscles; brain; cerebral palsy; catecholamines; glucagon

AM-08546 SCHULTZ, LORIS H., Univ. Wisconsin, Madison, Wis.
ketone bodies; metabolic diseases; metabolites; butyric acid; adipose tissue; lipids; hormones; hydrogen--ion concentration; radiolabeled carbon; veterinary medicine

AM-08560 DORNER, ROBERT W., Sch. Med., St. Louis Univ., St. Louis, Mo.
connective tissue diseases; connective tissue; regeneration; collagen; mucopolysaccharides; hyaluronic acid; vitamin A; serotonin; nitrogen mustards

AM-08571 FRIDHANDLER, LOUIS, Harbor Gen. Hosp., Torrance, Cal.
embryonic membrane; hydrogen; fatty acids; insulin; prolactin; estradiol; tritium; radiolabeled carbon

AM-08579 BEELER, DONALD A., Albany Med. Col., Albany, N.Y.
unsaturated fatty acids; cholesterol; diet; fat-free diet; bile acids and salts; linoleic acid; steroids; cell components..mitochondria

AM-08624 BETHEIL, JOSEPH J., Albert Einstein Col. Med., Yeshiva Univ. N.Y.C.
diet; amino acid; proteins; dietary deficiency; growth inhibitors; leucine; isoleucine; valine; radiolabeled carbon

AM-08662 HOWELL, DAVID S., Sch. Med., Univ. Miami, Miami, Fla.
phospholipids; bone..epiphyses; minerals; reaction sites; nucleotides; hydroxyapatite; rickets; enzymes; injuries..wound healing; radiolabeled phosphorus

AM-08715 KREBS, HANS A., Sch. Biochem. Res., Univ. Oxford, Oxford, England
glucose; ketones; lactates; phosphomonoesterases.. fructose 1,6--diphosphatase; carbon--carbon ligases.. pyruvate carboxylase; cell--free systems

AM-08745 NUMA, SHOSAKU, Max-Planck-Inst. Zellchemie, Munchen, Karlstrasse, Germany
fatty acids; enzymes; enzyme inhibitors; cell components ..microsomes; cell components..mitochondria; citrate.. isocitrate; adipose tissue; hormones; hyperlipoproteinemia; diabetes; lipoproteins..serum lipoproteins; longitudinal study; atherosclerosis; nephrotic syndrome

AM-08747 RUSSELL, PERCY J., Univ. Kansas Med. Cr., Kansas City, Kans.
2--amino--2--methylpropanol; phospholipids; phospholipids inhibitors; cell components..mitochondria; liver; oxidative phosphorylation; choline; dietary deficiency; metabolites; synthesis; radiolabeled carbon

AM-08749 WILSON, JEAN D., Southwestern Med. Sch., Univ. Texas, Dallas, Texas
cholesterol; bile acids and salts; diet; intestinal absorption; reaction sites; lymph; species; radiolabeled carbon

AM-08775 BRILL, NORMAN Q., Univ. California Center Health Sci., Los Angeles, Cal.
stress; adrenal cortex hormones; liver; enzymes

AM-08830 DAVENPORT, GUY R., Vanderbilt Sch. Med., Nashville, Tenn.
embryology; histogenesis; fetus; pancreas; liver; glucose--6--phosphates; enzymes; proteins; blood proteins, serum proteins

AM-08906 MANIS, JAMES, Col. Phys., Surg., Columbia Univ., New York, N.Y.
bone disorders; collagen; proline; hydroxyproline; nitrogen; stable isotope labeled nitrogen; proteins; osteitis deformans; osteomalacia; hypothyroidism; hyperthyroidism; exercise; osteoporosis; osteogenesis imperfecta

AM-08925 SUSSMAN, KARL E., Sch. Med., Univ. Colorado, Denver, Colo.
insulin; secretory mechanisms; hypoglycemia; glucose tolerance; tolbutamide; diabetes; liver; homeostasis; blood vessels shunts..portacaval shunt; radiolabeled iodine

AM-08951 YOSHIDA, TAKASHI, Michael Reese Hosp. and Med. Cr., Chicago, Ill.
6--dimethylamino--9--(3'--amino--3'--deoxy--β--D--ribofuranosyl)--purine; puromycin; nephrosis; tissue respiration; oxidoreductases..dehydrogenases; cell components..mitochondria; proteins; radiolabeled carbon

AM-08978 FIRSCHEIN, HILLIARD E., Hosp. Special Surgery New York, N.Y.
bone..femur; parathyroid hormone; vitamin D; steroid hormones; perfusion; bone resorption; bone disorders; radiolabeled carbon; radiolabeled calcium; radiolabeled sulfur; collagen; sulfomucopolysaccharides; minerals

AM-08992 MOURY, DANIEL, N.M., Bowman Gray Sch. Med., Winston-Salem, N.C.
L--thyroxine; cell components..microsomes; electron transport; proteins; ubiquinone; oxidoreductases.. NADH2 cytochrome c reductase; oxidoreductases.. succinate oxidase

AM-09000 FALLON, HAROLD J., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
phospholipids; triglycerides; ethanol; D--glucitol; glycerophosphates; oxidoreductases..glycerophosphate dehydrogenase; esterification; thyroid hormones; cell components..cytoplasm; cell components..mitochondria; liver

AM-09033 HILL, JOHN B., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
glucose; anomers; isomerases..mutarotase; carbohydrates; diabetes..alloxan diabetes; diet; hypoglycemia agents; glycosuria; kidney disorders; nephrotoxins

AM-09071 LARNER, JOSEPH, Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
insulin; hypoglycemic agents; glycogen; muscle; glycosyltransferases..UDP glucose : α--1,4--glucan α--4--glycosyltransferase

AM-09084 GELB, ALVIN M., Mount Sinai Hosp., New York, N.Y.
adrenalectomy; fatty acids; esterification; glucose; amino acids; feeding behavior; diet; radiation effects; chemical structure; radiolabeled carbon; Addison's disease; arteriosclerosis

AM-09145 **STRANDH, JOHN,** Univ. Uppsala, Uppsala, Sweden
calcium; phosphorus; bone; hyperparathyroidism; rickets; immobilization; osteoporosis; hyperadrenalism; radiolabeled calcium; radiolabeled phosphorus; bone fractures

AM-09146 **COWGER, MARILYN L.,** Sch. Med., Univ. Washington, Seattle, Wash.
bilirubin; detoxication; tissue culture; oxidation; electron transport; albumins; binding; purines; drugs

AM-09147 **AMENTA, JOSEPH S.,** Univ Pittsburgh Med. Cr., Pittsburgh, Pa.
hydrazines; liver; lipids; cytotoxicity; fasting; stearic acid; glucose; fatty liver; radiolabeled carbon

AM-09172 **McCANDLESS, ESTHER L.,** McMaster Univ., Hamilton, Ontario, Canada
connective tissue; growth; carrageenan

AM-09186 **DELANEY, PATRICK F.,** Col. of the Holy Cross, Worcester, Mass.
growth hormones; cell components..mitochondria; fats; oxidation; proteins; high energy compounds; molecular structure

AM-09187 **GORDON, EDGAR S.,** Sch. Med., Univ. Wisconsin, Madison, Wis.
fatty acids; diabetes; adipose tissue; liver; enzymes; radiolabeled carbon; reaction sites; atherosclerosis; fasting; hormones; obesity

AM-09196 **PENHOS, JUAN C.,** New York Med. Col., New York, N.Y.
growth hormones; lipids; perfusion; liver; reaction sites; fatty acids; triglycerides; ketone bodies; cholesterol; glucose; hypophysectomy; adrenalectomy

AM-09232 **GOODMAN, ALLEN D.,** Albany Med. Col., Albany, N.Y.
kidney..renal cortex; acidosis; ammonia; glutamates; α--ketoglutarate; glucose; enzymes; enzyme inhibitors; hypokalemia; radiolabeled carbon; kidney function; glyconeogenesis

AM-09235 **HERS, HENRI-GERY,** Sch. Med., Univ. Louvain, Louvain, Belgium
metabolic diseases, inborn; carbohydrates; glycogenosis; disaccharide (oligosaccharide) intolerance; fructose--intolerance, hereditary; hypoglycemia; lipochondrodystrophy; galactosemia; leukodystrophies; glycogen; prednisolone; adrenal cortex hormones; mucous membrane; cell components.. lysosomes; children; diagnostic tests

AM-09244 **SENIOR, BORIS,** Boston Floating Hosp., Boston, Mass.
lipolysis; blood..serum; lipids..serum lipids; fatty acids; hormones; nutrition; epididymal fat pad

AM-09246 **CHARKEY, LOWELL W.,** Col. Sci., Arts, Colorado State Univ., Fort Collins, Colo.
methionine; glutathione; cystine; sulfur amino acids; diet; thyroid function; thyrotoxicosis; oxidative phosphorylation; serine

AM-09247 **TOWNES, PHILIP L.,** Univ. Rochester Med. Cr., Rochester, New York
metabolic diseases, inborn; trypsinogen deficiency disease; proteases..trypsinogen; proteases..trypsin; proteases..chymotrypsin; proteases..carboxypeptidase; diagnostic tests; children; pancreatic cystic fibrosis; hypoproteinemia; anemia; diet; therapy evaluation; growth factors

AM-09251 **HOWELL, RALPH R.,** Johns Hopkins Hosp., Baltimore, Md.
proteins; cell components..polysomes; reaction rates (chemistry); hydrocortisone

AM-09252 **ALBRINK, MARGARET J.,** Sch. Med., West Virginia Univ., Morgantown, W. Va.
triglycerides; blood..serum; diabetes; therapy evaluation; diet; insulin; hypoglycemic agents; atherosclerosis

AM-09254 **NASH, HAROLD A.,** North Star Res. and Development Inst., Minneapolis, Minn.
deoxyribonucleic acid; injection; species; cholesterol; stress; cold; diet; ethionine; liver function tests; cholesterol inhibitors; thyroxine; immunology

AM-09262 **REDDY, WILLIAM J.,** Baker Res. Lab., Boston, Mass.
insulin; messenger ribonucleic acid; proteins; muscles.. skeletal muscle; adipose tissue; cell components.. ribosomes; enzymes; reaction sites; diabetes..alloxan diabetes

AM-09336 **HOLLETT, CHARLOTTE R.,** Meharry Med. Col., Nashville, Tenn.
lipids; nervous system..autonomic nervous system; lipolysis; enzymes; adipose tissue; obesity hereditary hyperglycemic; brain..hypothalamus; brain lesions; catecholamines; reserpine; stress; electrostimulus; sympatholytic agents; sympathomimetic agents

AM-09346 **NICHOLSON, JOHN F.,** Col. Phys., Surg., New York, N.Y.
ammonia; nitrogen; proteins; infant human; stable isotope labeled nitrogen; metabolic diseases inborn; urea; biomathematics

AM-09347 **THOMPSON, JOHN E.,** Veterans Admin. Hosp., Oklahoma City, Okla.
glycerides; feces; bioassay; instrumentation--methodology; gastrointestinal disorders; malabsorption syndrome; steatorrhea; sprue; diagnostic tests

AM-09370 **METZ, ROBERT,** Cook County Hosp., Chicago, Ill.
glucose; diabetes; ethanol; cortisone; glucagon; glucose tolerance; diagnostic tests; glucose--6--phosphates; lactates

AM-09371 **BROWN, FOUNTAINE C.,** Col. Med., Univ. Tennessee, Memphis, Tenn.
hepatolenticular degeneration; metabolic diseases inborn; ceruloplasmin; copper; tritium; estrogens; pregnancy

AM-09372 **CONN, REX B., Jr.,** West Virginia Univ. Med. Cr., Morgantown, W. Va.
creatine; phosphorylation; carbohydrates; muscles; liver; creatinuria; diabetes; glycosuria; growth hormones; thyroxine; adrenalectomy; insulin; methionine; diet; guanidinoacetic acid

AM-09375 **REDETZKI, HELMUT M.,** Sch. Med., Louisiana State Univ., New Orleans, La.
alcoholism; alcohols; homeostasis; liver; brain; metabolites; glycolysis; pyridine nucleotides; oxidoreductases..alcohol dehydrogenases; toxicology

AM-09376 **BERRY, MICHAEL N.,** Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
glucose; glycogen; liver; perfusion; diet; hormones; chlorhizin; alloxan

AM-09392 **RUBIN, ROBERT J.,** Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
nucleic acids; purine nucleotides; pyrimidine nucleotides; diet; purine analogs; pyrimidine analogs; orotic acid; succinic acid; uracil; uridine; formates; liver; neoplasms; radiolabeled carbon

AM-09403 **THOMAS, JOHN A.,** Sch. Med., Creighton Univ., Omahoa, Nebr.
fructose; androgens; testosterone analogs; seminal vesicles; epithelium; prostate; reaction sites

AM-09406 **SMITH, LLOYD H., Jr.,** Univ. California Med. Cr., San Francisco, Cal.
orotic aciduria; genetics..heterozygotes; oxalosis; cystinosis; radiolabeled carbon; radiolabeled sulfur; cystine; isotope dilution (concentration) techniques; metabolites; glyoxylate; decarboxylases..orotidylic decarboxylase; metabolic diseases, inborn

AM-09593 **FRUMIN, ABRAHAM M.,** Albert Einstein Med. Cr., Philadelphia, Pa.
glucose--6--phosphate dehydrogenase deficiency; glucose; sugars; blood..serum; kidney function; liver function; cataract; ethnic groups..Negroes; children; genetics..population genetics, human

AM-09679 **MANDELSTAM, PAUL,** Col. Med., Univ. Kentucky, Lexington, Ky.
diabetes; intestinal absorption; kidney..renal tubular transport; sugars; amino acids; insulin; therapy evaluation; nucleic acids inhibitors

AM-09709 **THORNTON, PAUL A.,** Univ. Kentucky Med. Cr., Lexington, Ky.
ascorbic acid; vitamin D; skeleton; intestinal absorption; kidney; intestines..small intestine; cell components.. mitochondria; dietary deficiency; calcium; phosphorus; citrate; lactates; radiolabeled calcium

AM-09715 **DOWBEN, ROBERT M.,** Massachusetts Inst. Technology, Cambridge, Mass.
electrolytes; muscle; muscular dystrophy; sodium; potassium; steroids

CA-00669 **HAVEN, FRANCES L.,** Sch. Med., Univ. Rochester, Rochester, N.Y.
Walker carcinoma 256; neoplasms; oxidoreductases.. cytochrome oxidases; lipids; lipoproteins; phospholipids; liver

CA-01524 **MILLER, ISAAC H., Jr.,** Meharry Med. Col., Nashville, Tenn.
mercapturic acid; glutathione; synthesis; S-p-iodophenylglutathione; S-p-fluorophenylglutathione; cysteine; polycyclic compounds; aromatic amines; carcinogens

CA-01669 **FINK, ROBERT M.,** Sch. Med., Univ. California, Los Angeles, Cal.
nucleic acids; pyrimidine; radiolabeled carbon; tritium; fungi..Neurospora crassa

CA-01719 **BAUER, JERE M.,** Univ. Michigan Hosp., Ann Arbor, Mich.
creatine; radiolabeled carbon; liver; enzymes; hepatoma; acid--ammonia ligases..L--glutamate:ammonia ligase (ADP); membrane permeability; cell components.. microsomes; host--neoplasm

CA-02006 **McKEE, RALPH W.,** Sch. Med., Univ. California, Los Angeles, Cal.
carbohydrates; cell division; crabtree effect; Ehrlich ascites carcinoma; fats; neoplastic cells; neoplastic growth; proteins; radiation effects; x-rays

CA-02366 **TARVER, HAROLD,** Univ. California Med. Cr., San Francisco, Cal.
blood proteins; radiolabeled; gastrointestinal system

CA-02368 **WEIMER, HENRY E.,** Sch. Med., Univ. California, Los Angeles, Cal.
blood..serum; carbohydrates; glycoproteins; immunology; inflammation; neoplasms; stress; tissue

CA-02771 **SALMON, W. D.,** Auburn Univ., Auburn, Ala.
choline; diet; deoxyribonucleic acid; deoxyribonucleosides; ethionine; liver; methionine

(contd)

LISTING OF GENERAL RESEARCH AREAS

METABOLISM (CONTD)

CA-02877 **WEINFELD, HERBERT,** Health Research, Inc., Buffalo, N.Y.
leukemia; glycoproteins; urine; neoplasms; cancer chemotherapy; colchicine; nucleic acids; blood cells.. leukocytes

CA-03151 **HIATT, HOWARD H.,** Beth Israel Hosp., Boston, Mass.
messenger ribonucleic acid; proteins; enzymes; cell components..ribosomes; liver; cell differentiation; neoplasms; antimetabolites; antineoplastic agents

CA-03274 **BROWN, RAYMOND R.,** Sch. Med., Univ. Wisconsin, Madison, Wis.
carcinogenesis; hydroxykynurenine; nicotinic acid; phenoxazone pigments; radiolabeled carbon; urinary bladder

CA-04236 **TOPOREK, MILTON,** Sch. Med., Jefferson Med. Col., Philadelphia, Pa.
blood proteins..plasma proteins; liver; neoplasms; perfusion; vitamin B12

CA-04843 **SCHOCH, HENRY K.,** Veterans Admin. Hosp., Ann Arbor, Mich.
dehydrogenases..lactate dehydrogenases; blood serum; neoplasms; isozymes; neoplastic cells; myeloma, bone marrow; NADH2 analogs

CA-05228 **MOORE, BLAKE W.,** Sch. Med., Washington Univ., St. Louis, Mo.
brain; carcinogenesis; DEAE cellulose chromatography; enzymes; immunology; liver; proteins; starch gel electrophoresis

CA-05305 **WAKIM, KAHLIL G.,** Mayo Assn., Rochester, Minn.
hypoglycemic agents; neoplasms; bioassay; glucose

CA-06073 **LESTER, GABRIEL,** Reed Col., Portland, Ore.
tryptophan; membrane permeability and transport; enzymes; fungi..Neurospora crassa

CA-06345 **JENA, MILTON,** Western Pennsylvania Hosp., Pittsburgh, Pa.
proteolysis; blood serum; cancer; proteases..cathepsins; albumins..plasma albumins; blood proteins..plasma proteins; glutathione

CA-06420 **BOTTOMLEY, RICHARD H.,** Oklahoma Med. Res. Inst., Oklahoma City, Okla.
blood cells..leukocytes; leukemia; antineoplastic agents; hydrocortisone; radiolabeled; proteins; nucleic acids, cell components..microsomes; enzymes; oxidoreductases.. lactate dehydrogenase; steroids; enzymes..isoenzymes; drugs resistance; transcarbamylases..aspartate transcarbamylase

CA-06433 **BERGSAGEL, DANIEL E.,** Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
transformation; proteins; gamma globulin; beta globulins; plasma cell neoplasm (Adj.-PC-5); plasma cell neoplasm (Adj.-PC-12); myeloma globulins; deoxyribonucleic acid; transplantation; blood coagulation..factor IX; Christmas disease; liver

CA-06452 **MENGEL, CHARLES E.,** Duke Univ. Med. Cr., Durham, N.C.
tryptophan; mast cells, neoplasms; antineoplastic agents; carcinoid; cancer chemotherapy; anemia; dietary deficiency; pyridoxine; folic acid; vitamin B12

CA-06537 **GEYER, ROBERT P.,** Harvard Sch. Pub. Hlth., Boston, Mass.
metal..polyvalent metals; cell components; radiolabeled; proteins; liver

CA-06698 **ALTMAN, KURT I.,** Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
collagen; connective tissue; elastin; host-neoplasm; metabolites; methylmalonate; mucopolysaccharides; pyrrole carboxylic acids; radiation effects; radioisotopes.. radium; radiolabeled; sulfates; x-rays

CA-06867 **BACHRACH, URIEL,** Sch. Med., Hebrew Univ., Jerusalem, Israel
cancer; polyamines; spermine; spermidine; semen; blood.. serum; malignolipin; oxidases..amine oxidase; antineoplastic agents; radiolabeled carbon; methionine; putrescine

CA-07051 **COSTA, GIOVANNI,** Health Research Inc., Buffalo, N.Y.
body weight; electrolytes; lipolysis; neoplastic growth; viruses..oncogenic viruses

CA-07156 **INGBAR, SIDNEY H.,** Boston City Hosp., Boston, Mass.
blood cells..leukocytes; cancer; cardiovascular system; catalase; oxygen consumption; sympathomimetic agents; thyroid hormones; thyroxine; tissue resolration

CA-07543 **MIZUNO, NOBUKO S.,** Veterans Admin. Hosp., Minneapolis, Minn.
cell components..cell nucleus; liver cells; hepatoma; deoxyribonucleic acid; ribonucleic acid; proteins; enzymes; tritium; radiolabeled carbon

CA-07568 **KORMAN, SAMUEL,** Jewish Chronic Disease Hosp., Brooklyn, N.Y.
acetazolamide; adrenal cortex hormones; anemia; blood cell..erythrocytes; blood proteins; calcium; carcinoma; enzymes inhibitors; hydrases..carbonic anhydrase; hypercalcemia; hyperparathyroidism; hypoparathyroidism; ion.. cations; iron; metal chelates; metastasis; myeloma (bone marrow)..multiple myeloma; potassium; proteins; radiolabeled iodine; radiolabeled iron; therapy

CA-07619 **McGREGOR, ROBERT F.,** Univ. Texas, Houston, Tex.
phospholipids; estrogens; liver; adrenal glands; kidney; kidney neoplasms; cell components..cell nucleus; cell components..mitochondria; cell components..microsomes; cell components..intracellular membranes; radiolabeled carbon; radiolabeled phosphorus; fractionation; electron transport

CA-07817 **PRICE, J.M.,** University Hospitals, Madison, Wis.
quinolines; chemical structure--biological activity; metabolites; carcinogenesis; urinary tract neoplasms; radiolabeled carbon; species

CA-07919 **DE ALVAREZ, RUSSELL R.,** Sch. Med., Temple Univ., Philadelphia, Pa.
uterus neoplasms; neoplasms invasiveness; adenocarcinoma; adipose tissue; lipids blood..serum lipids; diet; pregnancy; lipids

CA-07930 **OKITA, GEORGE T.,** Northwestern Univ. Med. Sch., Chicago, Ill.
carcinogenesis; breast neoplasms; carcinogens; estrogens; tissue respiration; radiolabeled carbon; instrumentation--methodology; computer analysis

CA-08064 **BLOIS, MARSDEN S., Jr.,** Grad. Sch., Stanford Univ., Stanford, Cal.
melanin; melanoma; neoplastic growth; radioassay; DOPA; diagnostic tests; instrumentation--methodology

CA-08134 **SEIDMAN, IRVING,** Sch. Med., New York Univ., New York, N.Y.
triiodothyronine; enzymes..isoenzymes; liver; muscles.. skeletal muscle; infant animals..newborn; hepatoma; oxidoreductases..lactate dehydrogenase; oxidoreductases.. glucose--(--phosphate dehydrogenase; oxidoreductases.. phosphogluconate dehydrogenase; oxidoreductases.. malate dehydrogenase; cell components..mitochondria; fatty liver

CA-08255 **HESS, BENNO,** Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
glycolysis; mathematical models; computer analysis; Ehrlich ascites carcinoma; radiolabeled phosphorus; hydrogen--ion concentration; adenosine phosphates; enzyme feedback; enzyme substrate; temperature; reaction rates (chemistry); electron transport; cell components

CA-08269 **FOSTER, DANIEL W.,** Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
liver cells; fatty acids; ketone bodies

CA-08272 **RYAN, WAYNE L.,** Col. Med., Univ. Nebraska, Omaha, Nebr.
lysine; homocitrulline; arginine; reaction sites; cell components

CA-08339 **WHITNEY, JOHN E.,** Sch. Med., Univ. Arkansas, Little Rock, Ark.
tissue; neoplasms; cell components; hypoglycemic agents; insulin; amino acids; chemical structure--biological activity; immunological tests

CA-08501 **SIPERSTEIN, MARVIN D.,** Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
cholesterol; feedback control; mevalonic acid; reaction sites; oxidoreductases; cell components.. microsomes; lipoproteins; hyperlipemia; hepatoma; phylogeny; Krebs cycle; diabetes; cholesterol inhibitors

CA-09568 **NELSON, NORTON,** New York Univ. Med. Cr., New York, N.Y.
aromatic amines; urinary bladder neoplasms; hydroxylamine; metabolites; β--naphthylamine; carcinogenesis; deoxyribonucleic acid; proteins

DE-00876 **IRVING, JAMES T.,** Forsyth Dent. Infirmary, Boston, Mass.
calcification; bone resorption; enzymes; cartilage; radiolabeled; implants; dental structure..teeth; bone; lipids; osteoclasts; enzyme substrate; ions; binding; giant cells, nonspecific

DE-01021 **BAVETTA, LUCIEN A.,** Sch. Dent., Univ. Southern California, Los Angeles, Cal.
amino acid; anemia; collagen; diet; fractionation; hormones; methylprednisolone; nutrition; proteins; radiolabeled; temperature

DE-01298 **GOLDHABER, PAUL,** Harvard Univ., Boston, Mass.
dental disease..periodontal disease; oxygen tension; osteoclasts; bone resorption; tissue culture; parathyroid hormone; vitamins; proteases..collagenase

DE-01512 **DALE, JACK G.,** Faculty Dent., Univ. Toronto, Toronto, Ontario, Canada
bone resorption; hormones; implants; millipore diffusion chamber technique; nutrition

DE-01523 **COHN, DAVID V.,** Veterans Admin. Hosp., Kansas City, Mo.
bone; parathyroid hormones; growth; bone resorption

DE-01825 **BEVELANDER, GERRIT,** Sch. Dent., Univ. Texas, Houston, Tex.
calcification; skeleton; growth; environment; nutrition; children; tetracycline; chemotherapy; crystallization; crystal growth inhibitors; dental structure..teeth

EF-00226 **JOHNSON, HAROLD D.,** Col. Agr., Univ. Missouri, Columbia, Mo.
aging; endocrine glands; stress; temperature

EF-00499 **DEUTSCHMAN, ARCHIE J., Jr.,** Agr. Col., Univ. Arizona, Tucson, Ariz.
chemical structure--biological activity; cyclopropene; fatty acids; heterocyclic compounds; synthesis

GM-04761 **BROWN, DAVID H.,** Sch. Med., Washington Univ., St. Louis, Mo.
mucopolysaccharides; glycogen; heparin; heparitin sulfate; lipochondrodystrophy; carbohydrases; phosphorylases; glycosyltransferases..UDP glucose: α--1,4--glucan α--4--glycosyltransferase; polysaccharides

GM-04973 **BURTON, STANLEY D.,** Mount Zion Hosp. and Med. Cr., San Francisco, Cal.
adrenal cortex hormones; epinephrine; glycogen; hyperthyroidism; lipids; liver; perfusion; phosphomonoesterases glucose-6-phosphatases

GM-05863 **ARSENEAU, FLAVIN J.,** Arlington Heights High Sch., Ft. Worth, Tex.
education..secondary education; research potential; research programs

GM-07305 **WERMERS, GEORGE W.,** Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
diaphragm; muscle contraction; radiolabeled carbon; glucose; fructose; glycogen; perfusion

GM-07865 **RICHARDSON, KEITH E.,** Col. Med., Ohio State Univ., Columbus, Ohio
ethanolamines; enzymes; glycine; acetates; choline; plants

GM-08229 **VOLCANI, BENJAMIN E.,** Univ. California, La Jolla, Cal.
marine biology; silicates; cell components..cell wall; algae..diatoms

GM-09025 **MARKAKIS, PERICLES,** Sch. Agr., Michigan State Univ., East Lansing, Mich.
acetates; algae; anthocyanins; caffeic acid; catechin; chlorogenic acid; enzymes; peroxidases; phenol oxidases ..polyphenol oxidases; pigments; quercetin; radiolabeled carbon

GM-09791 **CARLO, RICCI,** Sch. Med., Univ. Siena, Siena, Italy
NAD; nicotinamide; stress; hormones; phosphorylases.. pyrophosphorylases; carbon-nitrogen ligases, deamido-NAD :L-glutamine amido-ligase (AMP); radiolabeled carbon; radiolabeled phosphorus; tritium; regeneration; liver; bone marrow; blood cells..erythrocytes; membrane permeability; bacteria

GM-09325 **CSAKY, T.Z.,** Col. Med., Univ. Kentucky, Lexington, Ky.
sodium; ion; sugar; intestinal absorption; membrane permeability and transport; cardiac glycosides

GM-10118 **PHILLIPS, HUGH J.,** Sch. Med., Creighton Univ., Omaha, Nebr.
age; kidney; proteases..trypsin; tissue respiration

GM-10267 **WEAVER, JAMES N.,** Texas Agr. Exptl. Station, College Station, Tex.
dimorphism (biology); embryology; fatty acids; royal jelly; pheromones; radiolabeled carbon; enzymes; germicides; chemical structure--biological activity

GM-10310 **KLEBANOFF, SEYMOUR J.,** USPHS Hosp., Seattle, Wash.
cell components..cell nucleus; deoxyribonucleic acid; ergothioneine; estrogens; iodination; ionizing radiation; peptides; peroxidases; proteins; radiation effects; thyroid gland; thyroxine; transformation; tyrosine; uterus

GM-11364 **MANGOLD, HELMUT K.,** Grad. Sch., Hormel Inst., Austin, Minn.
counter--current fractionation; fatty acids; amino acids; nucleic acids; macromolecules

GM-11690 **SPENCER, RICHARD P.,** Sch. Med., Yale Univ., New Haven, Conn.
synthesis; amino acids; imino acids; cyclic amino acids; intestinal absorption; unsaturated compounds; membrane permeability and transport

GM-11884 **HERZOG, LEONARD F., II,** Col. Mineral Indust, Pennsylvania State Univ., University Park, Pa.
carbon; oxygen; nitrogen; sulfur; stable isotopes; blood..plasma; body fluids; breath composition; criteria; mass spectrometry

GM-12064 **HULTIN, HERBERT O.,** Col. Agr., Univ. Massachusetts, Amherst, Mass.
muscle..skeletal muscle; cell components, cell membrane; glycolysis; enzymes

GM-12438 **DAVIDHEISER, ROGER H.,** Sch. Med., Temple Univ., Philadelphia, Pa.
porphyrins; oxidoreductases, cytochrome oxidases; cyclic functions; hibernation; sex difference

GM-12562 **PIANTADOSI, CLAUDE,** Sch. Pharm., Univ. North Carolina, Chapel Hill, N.C.
synthesis; glycerol ethers; plasmalogens; phospholipids; alkanes; olefins; hematopoiesis.. erythropoiesis; blood..plasma; bone marrow; phenylhydrazine; aldehydrogenic compounds; acetates; palmitic acid

HD-00027 **WHITMORE, WILLET F., JR.,** Sloan-Kettering Inst. Cancer Res., N.Y.C.
prostate; zinc; prostate fluid; spermatozoa; enzymes; sex hormones; gonadectomy; chelating agents; toxicology; serotonin inhibitors; fertility

HD-00183 **PROCKOP, DARWIN J.,** Philadelphia Gen. Hosp., Philadelphia, Pa.
beta-aminopropionitrile; collagen; connective tissue; cortisone; hydroxyproline; histogenesis; mucopolysaccharides; tissue culture

HD-00261 **ROCKSTEIN, MORRIS,** Sch. Med., Univ. Miami, Coral Gables, Fla.
aging; carbohydrates; organophosphorus compounds; muscle contraction; adenosine phosphates; enzymes

HD-00318 **FRENCH, JOSEPH H.,** Univ. Colorado Med. Cr., Denver, Colo.
phenylketonuria; therapy; diet; infants (human); children; genetics..heterozygotes; diagnostic tests; phenylalanine

HD-00324 **BERRY, HELEN K.,** Children's Hosp. Res. Fdn., Cincinnati, Ohio
infant human..newborn; children; mental retardation; metabolic diseases, inborn; therapy; phenylketonuria; galactosemia; lipochondrodystrophy; maple syrup urine disease; aminoaciduria

HD-00341 **WAISMAN, HARRY A.,** Sch. Med., Univ. Wisconsin, Madison, Wis.
mental retardation; aromatic amino acids; amino acids; phenylketonuria; brain; liver; enzymes; branched--chain acids; primates..monkeys; infant animals; maple syrup urine disease; galactosemia; methionine; tryptophan

HD-00359 **MERTZ, EDWIN T.,** Grad. Sch., Purdue Univ., Lafayette, Ind.
mongolism; uric acid; sex difference; age; diet; genetics..chromosomes; stable isotope labeled nitrogen; kidney function

HD-00361 **CARVER, MICHAEL J.,** Col. Med., Univ. Nebraska, Omaha, Nebr.
mental retardation; phenylketonuria; amino acid; aminoaciduria; diet; phenylalanine; tyrosine; phenylpyruvic acid; aging; brain; children; infants, animals..newborn

HD-00391 **KRETCHMER, NORMAN,** Sch. Med., Stanford Univ., Stanford, Cal.
liver function; kidney function; fetus; phenylalanine; tyrosine; aminotransferases..tyrosine transaminase; adrenal glands; calcium; phosphorus; genetics..genes; glycogen; ascorbic acid; phosphomonoesterases..glucose phosphatases; carbohydrases..β--galactosidase; urea

HD-00396 **LUCEY, JEROLD F.,** DeGoesbriand Memorial Hosp., Burlington, Vt.
transferases..glycoronyl transferase; oxidoreductases.. uridine diphosphate glucose dehydrogenase; hyperbilirubinemia; kernicterus; infant animals..newborn; liver

HD-00411 **SPENCER, RICHARD P.,** Sch. Med., Yale Univ., New Haven, Conn.
aging; amino acid; aminotransferases..alanine transaminase; body weight; carbohydrates; dehydrogenases.. lactic dehydrogenase; feeding; hormones; intestinal absorption; intestines; kinases..pyruvate phosphokinase; pyruvate; tissue respiration

HD-00441 **BIEZENSKI, JERZY J.,** Maimonides Hosp., Brooklyn, N.Y.
lipids; pregnancy..placental transfer; phospholipids; fetus; nutrition

HD-00477 **ZUELZER, WOLF W.,** Child Res. Cr., Detroit, Mich.
hyperbilirubinemia; infants (human)..newborn; liver function; bilirubin; infants (human)..premature infants; intestinal atresia; hepatitis; erythroblastosis fetalis; jaundice..congenital nonhemolytic jaundice

HD-00506 **HRUBANT, H. EVERETT,** California State Col., Long Beach, Cal.
amino acid; aging; genetics; sex difference; blood proteins..plasma proteins

HD-00636 **EWING, LARRY LARUE,** Col. Vet. Med., Oklahoma State Univ., Stillwater, Okla.
aging; androgens; blood flow; body water; cholesterol; deoxyribonucleic acid; enzymes; glucose uptake stimulating factors; lactic acid; oxygen consumption; proteins; ribonucleic acid; stress; testis

HD-00652 **GITLIN, DAVID,** Children's Hosp., Pittsburgh, Pa.
adults; blood proteins..plasma proteins; chemical structure; embryo; gamma globulin; immunology..antigen-antibody reactions; molecular weight; proteins; reaction sites; tissue

HD-00774 **GRUEMER, HANNS-DIETER,** Ohio State Univ., Columbus, Ohio
phenylketonuria; mental retardation; amino acid; phenylalanine; diet; learning

HD-00775 **GRUEMER, HANNS-DIETER,** Ohio State Univ. Columbus, Ohio
brain; enzymes; phenylalanine; galactose; carbohydrates; benzoic acids; mental retardation

HD-00800 **BERGREN, WILLIAM R.,** Childrens Hosp., Los Angeles, Cal
mongolism; congenital abnormalities; genetics.. chromosomes; genetics, trisomy; galactose; glucose; children; adults; blood cells..leukocytes; blood cells ..erythrocytes; skin; mucous membrane; intestines

HD-00816 **HUNTER, ALAN G.,** Sch. Agr., Univ. Minnesota, St. Paul, Minn.
spermatozoa; proteins; immunology; fertility

HD-00994 **ZINKHAM, WILLIAM H.,** Johns Hopkins Hosp., Baltimore, Md.
enzymes..isoenzymes; oxidoreductases..lactate dehydrogenase; oxidoreductases..malate dehydrogenase; oxidoreductases..glucose--6--phosphate dehydrogenase; embryology; infant animals; growth; cell components; metabolic diseases inborn; primaquine sensitivity; muscular dystrophy; testis; ethnic groups..Negroes; reaction sites

HD-01124 **BIXBY, EMILY M.,** Wrentham State Sch., Wrentham, Mass.
mental retardation; metabolic diseases inborn; aminoaciduria; proteins; genetics..population genetics, human; family

HD-01184 **ROUX, JACQUES F.,** A. Einstein Col. Med., New York City, New York
liver; glycolysis; carbohydrates; oxidation; lipids; fetus; age; infant animals..newborn; thyroidectomy; hypophysectomy; NAD(H2); NADP(H2); pyridine nucleotides; diabetes

(contd)

METABOLISM (CONTD)

HD-01189 LEWIS, GEORGE T., Sch. Med., Univ. Miami, Coral Gables, Fla.
amino acids; intestinal absorption; age

HD-01221 POSER, CHARLES M., Kansas City Gen. Hosp., Kansas City, Mo.
mental retardation; aminoaciduria; genetics; amino acids; blood..serum

HD-01227 FENTON, PAUL F., Brown Univ., Providence, R.I.
genetics; growth hormones; proteins; lipids; adipose tissue; cell components..mitochondria; insulin; adrenal cortex hormones

HD-01326 GREER, MELVIN, Col. Med., Univ. Florida, Gainesville, Fla.
children: mental retardation: metabolic diseases. inborn; diagnostic tests; metabolites; cyclic amino acids; aminoaciduria; phenylketonuria; norepinephrine; serotonin; histidinemia; imidazoles; argininosuccinic aciduria; Hartnup disease; indoles

HD-01408 ZEE, PAULUS, St. Jude Hosp., Memphis, Tenn.
lipids..serum lipids; infant human..newborn; lecithins; triglycerides; cholesterol esters; diet; pregnancy.. umbilical cord; pregnancy..postpartum; child development; age; fatty acids

HD-01421 COPENHAVER, JOHN H., 602 South 44th Ave., Omaha, Nebr.
phenylketonuria; phenylalanine; pteridines; folic acid; cerebrospinal fluid; fetus; pregnancy..placental transfer; hydroxylases..phenylalanine--4--hydroxylase; diet

HD-01453 WILLIAMS-ASHMAN, HOWARD G., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
prostate; seminal vesicles; steroid hormones; proteins; ribonucleic acid; polyamines; cell components.. cytoplasm; tissue respiration; phosphorylation

HD-01462 SISSON, JOSEPH, Albany Med. Col., Albany, N.Y.
pregnancy..placental transfer; diabetes..alloxan diabetes; lipids; fatty acids; diet

HD-01501 COLLIPP, PLATON J., Children's Hosp., Los Angeles, Cal.
growth; growth hormones; liver; brain..cerebral cortex; phosphomonoesterases..glucose--6--phosphatases; electron transport; cell components..microsomes; reaction sites; age; leukemia; enzymes

HD-01502 TSALTAS, THEODORE T., Jefferson Med. Col., Philadelphia, Pa.
cartilage; age; aging; sex difference; hormones; cortisone; estrogens; proteases..papain

HD-01526 ROBERTSON, ALEXANDER F., Children's Hosp., Columbus, Ohio
pregnancy..placenta; enzyme substrate complex; lipids; triglycerides; fatty acids; phospholipids; cholesterol esters; pregnancy..placental transfer; perfusion; fetus; nutrition; bioassay

HD-01573 DAVIS, JOSEPH R., Stritch Sch. Med., Loyola Univ., Chicago, Ill.
testis; cryptorchidism; spermatogenesis; temperature; glucose; drugs; proteins

HD-01576 SCHNEIDER, ALBERT J., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
phenylketonuria; longitudinal study; infant human.. newborn; genetics..heterozygotes; family..parents; diagnostic tests; psychological tests

HD-01594 SHAW, KENNETH N.F., Childrens Hosp., Los Angeles, Cal.
mental retardation; mental disorders; body fluids; brain

HD-01602 ROUX, JACQUES F., A. Einstein Col. Med., New York, N.Y.
liver; glycolysis; carbohydrates; oxidation; lipids; fetus; age; infant animals..newborn; thyroidectomy; hypophysectomy; NAD; NADP; pyridine nucleotides; diabetes; pregnancy..placenta; brain

HD-01609 LUKEMEYER, JACK W., Indiana Univ. Med. Cr., Indianapolis, Ind.
glycogenolysis; hypoglycemia; germ--free; bacteria.. enterobacteria; bacteria..Lactobacillus acidophilus; nutrition; carbohydrases..beta--galactosidase

HD-01812 McCOY, ERNEST E., Sch. Med., Univ. Missouri, Columbia, Mo.
mongolism; hydrolases..kynurenine L--alanylhydrolase; liver; kynurenic acid; xanthurenic acid; 3--hydroxyanthranilic acid; children; tryptophan

HE-00119 FRIEDMAN, MEYER, Mount Zion Hosp., Med. Cr., San Francisco, Cal.
atherosclerosis; phospholipids; phospholipases.. lecithinase; lipids; adrenal cortex hormones; alevaire; alloxan; cardiovascular diseases; fats; diet; brain..hypothalamus; catecholamines

HE-01238 ZILVERSMIT, DONALD B., Univ. Tennessee, Memphis, Tenn.
blood..plasma; phospholipids; lipids; proteins; lipoproteins; chylomicrons; radiolabeled carbon; radiolabeled phosphorus

HE-01596 MARX, WALTER, Sch. Med., Univ. Southern California, Los Angeles, Cal.
tissue; heparin; radiolabeled; mast cells neoplasms; thyroid hormones; sulfates; sex hormones; mucopolysaccharides

HE-01946 DUNCAN, CHARLES H., Univ. Louisville Med., Dent. Res. Bldg., Louisville, Ky.
thyroid hormones; cholesterol; lipids; triglycerides

HE-02029 GOFMAN, JOHN W., Univ. California, Berkeley, Cal.
lipoproteins..serum lipoproteins; atherosclerosis; chemical structure--biological activity; trace elements; molecular structure

HE-02033 TREADWELL, CARLETON R., Sch. Med., Geo. Washington U., Wash., D.C.
cholesterol; esterases; intestines; liver; intestinal absorption; mucous membrane; cholesterol inhibitors; lymph; fatty acids; diet; hormones

HE-02164 ENGELBERG, HYMAN, Cedars Lebanon Hosp., Beverly Hills, Cal.
lipases..lipoprotein lipase; heparin; cholesterol; triglycerides; lipoproteins; lipids..serum lipids; fat tolerance

HE-02458 WELLS, WILLIAM W., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
sterols; skin; androgens; diet; lactose; bile acids and salts; chemical structure; carbohydrates; steroids

HE-02676 SWANK, ROY L., Sch. Med., Univ. Oregon, Portland, Ore.
blood; viscosity; diet; fats; blood cells..erythrocytes; blood flow; oxygen; cerebrovascular disorders; cell aggregation; adenosine diphosphate; serotonin; shock

HE-02818 FUJIMOTO, GEORGE I., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
β-sitosterol; cholesterol; chemical structure; radiolabeled carbon; synthesis

HE-02823 EIBER, HAROLD B., New York Med. Col., N.Y.C.
heparin; radiolabeled sulfur; lipemia; sulfates; lipases.. lipoprotein lipase; blood..plasma

HE-02907 PHILLIPS, GERALD B., Col. Phys., Surg., Columbia Univ., New York, N.Y.
phospholipids; blood..serum; hyperlipemia; lipids..serum lipids; atherosclerosis; lysolecithins; brain; blood cells.. erythrocytes; lipids

HE-02965 GIDEZ, LEWIS L., Albert Einstein Col. Med., Bronx, N.Y.
lipoproteins..serum lipoproteins; proteins; fatty acids; triglycerides; diet; lymph; hepatectomy; detergents; blood cells..erythrocytes; acanthrocytosis; radiolabeled carbon; polysorbate 80; binding; hemolysis; cholesterol esters

HE-03120 SPITZER, JOHN J., Hahnemann Med. Col., Philadelphia, Pa.
fatty acids; lipids; diabetes; lipoproteins; immunology; atherosclerosis

HE-03299 KRITCHEVSKY, DAVID., Wistar Inst., Philadelphia, Pa.
atherosclerosis; fatty acids; diet; cholesterol; fats; unsaturated fats; saturated fats; atheroma; liver; sex hormones; oxidation; hypercholesteremia

HE-03558 LIPSKY, SEYMOUR R., Sch. Med., Yale Univ., New Haven, Conn.
fatty acids; chemical structure; bile acids and salts; sterols

HE-03632 PATTON, STUART, Sch. Agr., Pennsylvania State Univ., University Park, Pa.
chemical structure; fatty acids; gas chromatography; instrumentation--methodology; lipids; lipoproteins; milk; radiolabeled

HE-03734 DAYTON, SEYMOUR, Veterans Admin. Cr., Los Angeles, Cal.
arteries; blood..plasma; cholesterol; radiolabeled carbon

HE-03787 PARSONS, WILLIAM B., Jr., Jackson Fdn., Madison, Wis.
cholesterol; nicotinic acid; liver function tests; aminotransferases; hypercholesteremia; therapy evaluation

HE-04120 MEAD, JAMES F., Sch. Med., Univ. California, Los Angeles, Cal.
lipids; atherosclerosis; isomers; synthesis; difluorolinoleic acid; spectrophotometry; instrumentation--methodology; fatty acids

HE-04175 TSALTAS, THEODORE T., Jefferson Med. Col., Philadelphia, Pa.
detergents; lipids..serum lipids; lipoproteins

HE-04346 YANG, WILLIAM C., Sch. Med., Univ. Southern California, Los Angeles, Cal.
myocardial ischemia and hypoxia; cell components.. mitochondria; oxidative phosphorylation; perfusion

HE-04372 MENG, H.C., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
triglycerides; fatty acids; lipases..lipoprotein lipase; chemical structure; heart; adipose tissue; heparin; epinephrine; ACTH; hormones; lipids; enzymes inhibitors; atherosclerosis

HE-04619 SCOTT, JOHN C., Sch. Med., Hahnemann Col., Philadelphia, Pa.
blood flow; diabetes; fatty acids; heart..myocardium; hypothyroidism; insulin; myocardial ischemia and hypoxia; thyroid hormones; veins..coronary sinus

HE-04900 DAYTON, SEYMOUR, Veterans Admin. Cr., Los Angeles, Cal.
diet; unsaturated fats; saturated fats; cholesterol; lipids..serum lipids; longitudinal study

HE-04968 FAILEY, ROBERT B., Jr., Sch. Med., Indiana Univ., Indianapolis, Ind.
p-aminobenzoic acid; bile acids and salts; cholates; diet; glycocholate; linoleic acid; nicotinic acid; taurine; thyroid hormones

HE-04969 ALLEN, ROBERT S., Iowa State Univ., Ames, Iowa
bacteria..rumen bacteria; diet; intestinal absorption; lipids; lipids..serum lipids; lipolysis; mucous membrane; radiolabeled; stomach..rumen; triglycerides

HE-05062 **BAILEY, J. MARTYN, Sch. Med., George Washington Univ., Washington, D.C.**
lipids: cell culture; pinocytosis; synthesis; immunology..antigens; cholesterol esters; atherosclerosis; phospholipids; membrane permeability and transport; ascites; reticulo-endothelial system

HE-05085 **BEHER, WILLIAM T., Henry Ford Hosp., Detroit, Mich.**
bile acids and salts; cholesterol; homeostasis; radiolabeled carbon

HE-05121 **ROSENMAN, RAY H., Mount Zion Hosp., Med. Cr., San Francisco, Cal.**
behavior; blood coagulation; cholesterol; coronary diseases; diet; exercise; hypercholesteremia; lipids.. serum lipids; lipoproteins..serum lipoproteins; longitudinal study; occupations; personality; prediction; smoking; stress; triglycerides

HE-05208 **NAIR, PADMANABHAN P., Sinai Hosp., Baltimore, Md.**
cooperative study; atherosclerosis; primates; cholesterol; diet; fatty acids; lipids; phospholipids; radiolabeled carbon; acetates; mevalonic acid; steroids

HE-05283 **NAIR, PADMANABHAN P., Sinai Hosp., Baltimore, Md.**
heart..myocardium; lipids; muscle..myofibrils

HE-05284 **INSULL, WILLIAM, Jr., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
lipids; atherosclerosis; hypercholesteremia; hyperlipemia; diabetes; fatty acids

HE-05285 **MARSH, JULIAN B., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
diabetes; hyperlipemia; lipoproteins..plasma lipoproteins; nephrosis

HE-05301 **BLOOM, WALTER L., Piedmont Hosp., Atlanta, Ga.**
sex difference; fasting; exercise; sodium; water-electrolyte balance; carbohydrates; blood volume; body fluids; diet; cholesterol; arteriosclerosis

HE-05302 **BORGSTROM, BENGT, Sch. Med., Univ. Lund, Lund, Sweden**
bile acids and salts; cholesterol; choline; chylomicrons; dietary deficiency; fatty acids; hydrocarbons; intestinal absorption; lipases..pancreatic lipase; lipids; lipolysis; liver; micelle formation (chemistry); monoglycerides; radiolabeled

HE-05363 **SCHLENK, HERMANN, The Hormel Inst., Austin, Minn.**
radiolabeled carbon; fatty acids; cholesterol; carbon dioxide; brain; gas chromatography; microorganisms; arachidonic acid

HE-05468 **ALLEN, ARTHUR, Jefferson Med. Col., Philadelphia, Pa.**
diet; hormones; radiolabeled carbon; glucose; fatty acids

HE-05705 **STEIN, YECHEZKIEL, Sch. Med., Hebrew Univ., Jerusalem, Israel**
lipids; phospholipids; arteries..aorta; heart; dietary deficiency; fatty acids

HE-05766 **BOTTCHER, C.J.F., Laboratory Physical Chemistry, Leiden, Holland**
atherosclerosis; thrombosis; lipids; arteries; phospholipids; sterols; lipoproteins; lipid peroxides

HE-06015 **SOMOZA, CESAR, Col. Med., Univ. Cincinnati, Cincinnati, Ohio**
lipids..serum lipids; brain damage; diet

HE-06031 **BERNE, ROBERT M., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
arteries..coronary arteries; blood circulation dynamics; drugs; heart..myocardium; hormones; nucleotides

HE-06216 **BRACHFELD, NORMAN, Sch. Med., Cornell Univ., New York, N.Y.**
heart..myocardium; lipids; oxygen consumption; myocardial ischemia and hypoxia; chemical structure

HE-06361 **TUNA, NAIP, Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
fatty acids; atherosclerosis; diabetes; diet; fats; atheroma; hyperlipemia

HE-06480 **LYMAN, RICHARD L., Col. Agr., Univ. California, Berkeley, Cal.**
fatty acids; liver; lipids..serum lipids; sex hormones; gonadectomy; estrogens; androgens; dietary deficiency; arachidonic acid; linoleic acid; phospholipids

HE-06804 **PRIVITERA, CARMELO A., Col. Arts, Sci., St. Louis Univ., St. Louis, Mo.**
age; cell components..mitochondria; diet; heart; hypothermia; oxidative phosphorylation; tricarboxylic acids

HE-06844 **GANS, JOSEPH H., Sch. Med., Indiana Univ., Indianapolis, Ind.**
diet; proteins; vasopressin; kidney function; deoxycorticosterone; cholesterol

HE-06891 **GULLICK, HERBERT D., Veterans Admin. Hosp., Syracuse, N.Y.**
pancreatic disease; lipids..serum lipids; hyperlipemia; glucagon; diabetes; atherosclerosis

HE-06915 **BARDFORD, REAGAN H., Oklahoma Med. Res. Inst., Oklahoma City, Okla.**
lipids; lipoproteins; chylomicrons; blood..plasma; hyperlipemia; lipolysis; enzymes

HE-06916 **BRADFORD, REAGAN H., Oklahoma Med. Res. Inst., Oklahoma City, Okla.**
cardiovascular system; mucopolysaccharides; endocrine glands; diet; blood; arteries; radiolabeled sulfur; radiolabeled carbon; lipoproteins; arteriosclerosis

HE-07048 **ROBERTSON, WILLIAM B., Sch. Med., Stanford Univ., Palo Alto, Cal.**
aging; valvular heart diseases; collagen; elastin; mucopolysaccharides; proteins; histogenesis; heart

HE-07061 **BRESSLER, RUBIN, Duke Hosp., Durham, N.C.**
fatty acids; heart failure..congestive heart failure; digitalis; aorta coarctation; diphtheria toxin; carnitine; heart..myocardium; fasting

HE-07118 **MEYER, DALLAS K., Univ. Missouri Med. Cr., Columbia, Mo.**
heart..myocardium; glycogen; synthetases; phosphorylases; myocardial ischemia and hypoxia; diurnal variation

HE-07220 **LAWRENCE, JOHN H., Univ. California, Berkeley, Cal.**
lipids..serum lipids; lipoproteins..serum lipoproteins; cholesterol; D--thyroxine; androsterone

HE-07239 **CONNOR, WILLIAM E., State Univ. Iowa, Iowa City, Iowa**
fatty acids; thrombosis; atherosclerosis; hormones; diet; fats; stress; cholesterol; lipids..serum lipids; blood coagulation; bile acids and salts; feces

HE-07419 **MIZUHARA, SHUNZI, Sch. Med., Okayama Univ., Okayama, Japan**
S--(isopropyl--carboxymethyl) cysteine; hypercholesteremia; therapy; atherosclerosis; bioassay; conformations (chemistry)

HE-07529 **WEISSLER, ARNOLD N., University Hosp., Columbus, Ohio**
amino acid; diet; epinephrine; fatty acids; glucagon; glucose; glycogen; heart..myocardium; heart contraction; heart intracardiac pressures; oxygen consumption; radiolabeled carbon

HE-07663 **BLOMSTRAND, ROLF L., Karolinska Inst., Stockholm, Sweden**
phospholipids; hypercholesteremia; bile acids and salts; diet; fatty acids; atherosclerosis; thoracic duct; vitamin A

HE-07687 **ISSEKUTZ, BELA, Jr., Lankenau Hosp., Philadelphia, Pa.**
fatty acids; palmitic acid; oleic acid; linoleic acid; exercise; radiolabeled carbon; carbohydrates; hormones; glucose; obesity; diabetes

HE-07878 **ELLIOTT, WILLIAM H., Sch. Med., St. Louis Univ., St. Louis, Mo.**
cholestanol; bile acids and salts; metabolites; chemical structure; radiolabeled carbon

HE-07928 **CAREN, RAYMOND, Mt. Sinai Hosp., Los Angeles, Cal.**
islands of Langerhans..alpha cells; glucagon; fatty acids; cholesterol esters; phospholipids; triglycerides

HE-08006 **HALL, LEO M., Univ. Virginia Med. Sch., Charlottesville, Va.**
glucose; acetoacetate; β-hydroxy-butyric acid; acetates; heart; glycogen; starvation; diabetes; radiolabeled carbon

HE-08262 **GOLLNICK, PHILIP D., Col. Physical Educ., Washington State Univ., Pullman, Wash.**
cholesterol; diet; exercise; fats; heart; hypocholesteremia; liver; muscle, skeletal muscle

HE-08263 **CHRISTENSEN, SOREN C., Univ. Aarhus, Aarhus, Denmark**
lipids..plasma lipids; arteries..aorta; lipoproteins; atheroma; steroid hormones; insulin; cholesterol; radiolabeled carbon; radiolabeled phosphorus; membrane permeability and transport; blood cells..erythrocytes

HE-08267 **BRENNER, RODOLFO R., Sch. Med., Univ. La Plata, La Plata, Argentina**
arachidonic acid; atherosclerosis; 5,8,11-eicosatrienoic acid; oleic acid; unsaturated fatty acids

HE-08294 **ODUM, EUGENE P., Grad. Sch., Univ. Georgia, Athens, Ga.**
birds; chromatography; ecology, animal; lipids; migratory animals

HE-08351 **WOSTMANN, BERNARD S., Col. Sci., Univ. Notre Dame, Notre Dame, Ind.**
chemical structure; cholesterol; diet; germ-free; lipids; radiolabeled carbon

HE-08353 **LEVY, LESTER M., Long Island Jewish Hosp., Long Island, N.Y.**
acetates; cholesterol; homeostasis; atherosclerosis; hypercholesteremia; tritium

HE-08377 **PIATNEK-LEUNISSEN, DOROTHY A., Hahnemann Med. Col., Philadelphia, Pa.**
adenosine triphosphates; heart; liver; hyperthyroidism; heart failure..congestive heart failure; oxidative phosphorylation; cell components..mitochondria; muscle..sarcosomes

HE-08387 **HARMAN, DENHAM, Col. Med., Univ. Nebraska, Omaha, Nebr.**
antihistamines; anti-inflammatory agents; arteries..aorta; atherosclerosis; cholesterol; collagen; diet; diphenylhydantoin; endothelium; injury; lipoproteins..serum lipoproteins; peroxides; thyroxine; triiodothyronine; unsaturated fats

HE-08423 **KAPLAN, ALEX, Univ. Washington, Seattle, Wash.**
age; atherosclerosis; children; cholesterol; diet; infants; lipids..plasma lipids; lipoproteins..plasma lipoproteins; longitudinal study; phospholipids; triglycerides

HE-08424 **QUACKENBUSH, FORREST W., Purdue Univ., Lafayette, Ind.**
cholesterol; lipoproteins..plasma lipoproteins; bile acids and salts; liver; glucose; diet; fatty acids; bacteria.. enterobacteria; steroid hormones; infant animals; cholesterol inhibitors; molecular structure; tritium; radiolabeled carbon

(contd)

METABOLISM (CONTD)

HE-08506 FARQUHAR, JOHN W., Sch. Med., Stanford Univ., Palo Alto, Cal.
arteriosclerosis; carbohydrates; chloropropamide; diet; glycerin; hyperlipemia; lipoproteins..plasma lipoproteins; myocardial infarct; radiolabeled carbon; triglycerides; tritium

HE-08523 GONZALEZ, I. ERNEST, Univ. California Med. Cr., San Francisco, Cal.
enzymes; arteries; endothelium; atherosclerosis; phagocytosis; lipids; cholesterol; hyperlipemia; endothelium permeability; blood cells..monocytes

HE-08550 LYNN, WILLIAM S., Duke Univ. Med. Cr., Durham, N.C.
adipose tissue; atherogenesis; cell components; cholesterol; diet; enzymes; fats; hormones; micelle formation, chemistry

HE-08577 WITIAK, DONALD T., Col. Pharm., Univ. Iowa, Iowa City, Iowa
hypercholesteremia; cholesterol; cholesterol inhibitors; coenzyme A..acetyl--coenzyme A; squalene; lanosterol; demethylation; synthesis; 5α--amino--cholestane--3β--ol; stereochemistry; atherosclerosis

HE-08642 GILBERTSON, JOHN R., Grad. Sch. Pub. Health, Univ. Pittsburgh, Pittsburgh, Pa.
alpha-glycervl ethers; cell components..cell nucleus; cell components..microsomes; cell components.. mitochondria; chemical structure--biological activity; epididymal fat pad; heart..myocardium; plasmalogens

HE-08672 NEWMARK, MARJORIE Z., Grad. Sch., Univ. Kansas, Lawrence, Kans.
adenosine 3.5-monophosphate; age; arteries..aorta; atherosclerosis; catecholamines; epinephrine; glucose; glycolysis; lipids; mucopolysaccharides; nucleotides; radiolabeled carbon; sex difference

HE-08673 WHANG, ROBERT, Sch. Med., Univ. New Mexico, Albuquerque, N.M.
acidosis; alcoholism; alkalosis; cell fluids; dehydration, body fluids; dietary deficiency; gastrointestinal system; hydration, body fluids; ion..cation; kidney; magnesium; potassium; water-electrolyte balance

HE-08674 BASSETT, DAVID R., The Queen's Hosp., Honolulu, Hawaii
adults; atherosclerosis; chylomicrons; coronary diseases; diet; ethnic groups..Japanese; ethnic groups..Polynesians; ethnic groups..whites; fats; hyperlipemia; lipids.. serum lipids

HE-08697 BRANDFONBRENER, MARTIN, Sch. Med., Univ. New Mexico, Albuquerque, New Mexico
hexose monophosphate pathway; heart; radiolabeled carbon; glucose; arteries..coronary arteries; blood flow; Fick method; oxygen consumption; carbon dioxide

HE-08769 ROSE, KENNETH D., Univ. Health Service, Univ. Nebraska, Lincoln, Nebr.
cell components..cytoplasm; lipids..serum lipids; cholesterol; stress; atherosclerosis; membrane permeability and transport; binding; fibroblasts; cell culture; radiolabeled carbon; adults

HE-08821 BORTZ, WALTER M., II, Lankenau Hosp., Philadelphia, Pa.
cholesterol; ketone bodies; fatty acids; liver; decarboxylases; coenzyme A..acetyl--coenzyme A; citrate; fasting; diabetes; atherosclerosis

HE-08997 BALINT, JOHN A., Albany Med. Col., Albany, N.Y.
age; diet; fatty acids; lipids; lecithin; intestinal absorption; membrane permeability and transport; lipoidal diseases; radiolabeled carbon; radiolabeled phosphorus; radiolabeled iodine; primates, monkeys

HE-09026 WEISS, HAROLD S., Res. Fdn., Ohio State Univ., Columbus, Ohio
atherosclerosis; blood pressure; cholesterol; arteries.. aorta; oxygen tension

HE-09039 SWELL, LEON, Veterans Admin. Hosp., Richmond Va.
cholesterol; fatty acids; intestines; lymph; esterification

HE-09067 CHUNG, ANTHONY C., Res. Fdn. Children's Hosp., Washington, D.C.
arteries; glycerin; lipids

HE-09196 NICHAMAN, MILTON Z., Public Health Service Hosp., San Francisco, Cal.
diet; unsaturated fatty acids; linoleic acid; lipids; arachidonic acid; cholesterol; metabolic diseases; hyperlipemia; radioisotopes..carbon 14; atherosclerosis

HE-09235 HOLLETT, CHARLOTTE R., Meharry Med. Col., Nashville, Tenn.
lipase..lipoprotein lipase; enzyme inhibitors.. lipoprotein lipase inhibitors; chemical structure--biological activity; lipemia; atherosclerosis; myocardial infarct

HE-09441 DUGAN, LEROY, Col. Agr., Michigan State Univ., East Lansing, Mich.
lipids; phospholipids; fatty acids; linoleic acid; diet; cardiovascular diseases; plasmalogens; lysophospholipids; chemical structure

HE-09457 MAHLER, ROBERT, Guy's Hosp., London, England
diabetes; atherosclerosis; lipids; lipase; insulin; hormones; insulin inhibitors; arteries.. aorta

HE-09610 DIETSCHY, JOHN M., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
sterols; cholesterol; cholesterol inhibitors; gastrointestinal system; bile; biliary tract diseases; cell components..cell wall; fatty acids; intestines; reaction sites

HE-09650 TIERNEY, DONALD F., Univ. California Med. Cr., San Francisco, Cal.
lung..alveolus; surface properties; lipids; chlorpromazine; norepinephrine; hyaline membrane disease, pulmonary; lung diseases; infant animals; infant human..premature infant

MH-02278 ARMSTRONG, MARVIN D., Fels Inst., Yellow Springs, Ohio
aromatic amino acids; aromatic amines; metabolites; mental disorders; mental retardation; aminoaciduria; phenylketonuria; maple syrup urine disease; metabolic diseases; argininosuccinic aciduria

MH-04592 McMANUS, IVY R., Grad. Sch., Univ. Pittsburgh, Pittsburgh, Pa.
alcoholism; 5-hydroxyindole acetic acid; 5-hydroxytryptophan; indole acetic acid; liver cirrhosis; N-methylnicotinamide; phenylketonuria; radiolabeled carbon; serotonin; tryptophan

MH-05314 GUBLER, CLARK J., Brigham Young Univ., Provo, Utah
adrenal cortex hormones; adrenal medulla hormones; brain; fluorophotometry; mental disorders; radiolabeled carbon; serotonin; thiamine; tryptophan

MH-08531 BERLOW, STANLEY, Milwaukee Children's Hosp., Milwaukee, Wis.
mental retardation; metabolic diseases..inborn; diagnostic tests; aminoaciduria; infants; children; family; amino acid

NB-01943 PETERS, HENRY A., Sch. Med., Univ. Wisconsin, Madison, Wis.
trace elements; minerals; nervous system disorders; ions.. cations; porphyrins; chelating agents; chemotherapy; mental disorders

NB-02023 AIRD, ROBERT B., Sch. Med., Univ. California, San Francisco, Cal.
amino acid; brain; blood-brain barrier; tissue respiration; enzymes inhibitors; vasoactive agents..vasodilators

NB-02235 KABARA, JON J., Grad. Sch., Univ. Detroit, Detroit, Mich.
brain; cholesterol; electrophoresis; stress; ritalin; muscular dystrophy; age; nutrition

NB-02465 KINARD, FREDERICK W., Med. Col. South Carolina, Charleston, S.C.
ethanol; enzymes; liver; enzyme inhibitors

NB-02785 SMITH, MARION E., Sch. Med., Stanford Univ., Stanford, Cal.
allergic encephalomyelitis; lipids; nerves..demyelination; nervous system..central nervous system; radiolabeled carbon; silicic acid chromatography

NB-02967 GATT, SHIMON, Hadassah Sch. Med., Hebrew Univ., Jerusalem, Israel
sphingolipids; brain; fatty acids..C24 fatty acids; enzymes; glycolipids; liver; ganaliosides

NB-03152 FLINK, EDMUND B., West Virginia Univ. Med. Cr., Morgantown, W.Va.
alcoholism; blood cells..erythrocytes; cell components.. mitochondria; kidney diseases; magnesium; malnutrition; radiolabeled magnesium; therapy; thyroid gland disorders

NB-03697 KLINGMAN, JACK D., Sch. Med., Univ. Buffalo, Buffalo, N.Y.
electrostimulus; ganglion, nervous system..superior cervical ganglion; glucose; lactates; lipids; pyruvate; radiolabeled carbon; ribonucleic acid

NB-03743 BAXTER, CLAUDE F., City Hope Med. Cr., Duarte, Cal.
gamma--aminobutyric acid; radiolabeled; brain; convulsants; glutamates; peptides; amino acids; nervous system..central nervous system; anesthetics

NB-03821 GERSTL, BRUNO, Sch. Med., Stanford Univ., Stanford, Cal.
multiple sclerosis; brain; nerves..myelin; unsaturated fatty acids; phospholipids; cerebrosides; plasmalogens

NB-04004 FLOCK, EUNICE V., Mayo Assn., Rochester, Minn.
hepatectomy; coma; brain; norepinephrine; amino acid; amine; glutamates; glutamine; glucose; radiolabeled; lactates; body fluids; serotonin

NB-04201 DRAPER, HAROLD H., Grad. Sch., Univ. Illinois, Urbana, Ill.
lipid peroxides; sulfhydryls; muscular dystrophy; tocopherol; dietary deficiency; genetic strains; aging; antioxidants; tritium; chemotherapy

NB-04202 PAOLETTI, RODOLFO, Univ. Milan, Milan, Italy
blood-brain barrier; brain; brain neoplasms; desmosterol; fractionation; lipids; lipogenic inhibitors; neoplastic growth; radiolabeled carbon; unsaturated fatty acids

NB-04339 FITCH, COY D., Univ. Arkansas Med. Cr., Little Rock, Ark.
radiolabeled carbon; creatine; muscular dystrophy; muscular diseases; muscle..skeletal muscle; pyridoxine; hyperthyroidism

NB-04454 BROWN, FOUNTAINE C., Univ. Tennessee, Memphis, Tenn.
cystathionine; brain; methionine; cystine; enzymes; coenzyme; pyridoxal phosphate; dietary deficiency; primates, monkeys; blood-brain barrier

NB-04484 RENDINA, GEORGE, Training Sch. Vineland, Vineland, N.J.
brain; phenylketonuria; blood..serum; proteins

NB-05096 **EFRON, MARY L. SL., Massachusetts Gen. Hosp., Boston, Mass.**
proline: hydroxyproline: amino acid: peptides: oxidases; L-proline NAD (P) 5-oxidoreductase; congenital abnormalities; mental retardation; epilepsy; aminoaciduria; radiolabeled carbon: metabolic diseases; glyoxylate; glycine; phenylalanine

NB-05204 **ELIASSON, SUEN G., Sch. Med., Washington Univ., St. Louis, Mo.**
diabetes..alloxan diabetes; diabetic neuropathy; electrolytes; electrophysiology; fatty acids; lipids; nerves..myelin radiolabeled

NB-05212 **MENKES, JOHN H., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
cerebrosides; sulfolipids; brain..cerebrum; metabolic diseases inborn; age; bacteria..Lactobacillus casei; chemical structure; brain disorders; congenital abnormalities; ketoacids

NB-05247 **RAVIN, HERBERT A., Sinai Hosp., Detroit, Michigan**
brain; blood proteins..serum proteins; proteins; copper; ceruloplasmin; thyroxine-binding proteins; chelating agents; chemotherapy; hepatolenticular degeneration; immunology

NB-05426 **ANDREWS, JOHN S., Howe Lab. Ophthalmology, Boston, Mass.**
lipids; fatty acids; eye..cornea; epithelium; stroma; eye disorders

NB-05481 **JOEL, CLIFFE, D., Harvard Med. Sch., Boston, Mass.**
brain; lipids; fatty acids; cell components..mitochondria; molecular structure; age; diet; nerves..myelin; nerves..synaptic vesicles; liver; heart; classification; species; radiolabeled carbon

NB-05534 **HUGHES, EDWIN R., Sch. Med., Univ. Arkansas, Little Rock, Ark.**
magnesium; homeostasis; blood cells..erythrocytes; muscle proteins; children; dermatomyositis; muscular dystrophy; sex hormones; endocrine glands; gonadectomy; age; muscles..skeletal muscle; tocopherols; radiolabeled magnesium; dietary deficiency

NB-06012 **GARCIA-BUNUEL, LUIS, Jefferson Med. Col., Philadelphia, Pa.**
muscles..skeletal muscle; enzymes; nerves..denervation; nerves degeneration; glycolysis..Embden--Myerhof pathway; Krebs cycle; pentose pathway; lipids; muscular diseases

OH-00159 **LOURIE, IRVIN M., Pan American Health Organization, Washington, D. C.**
blood cells..erythrocytes; body fluids; brain disorders; cooperative study; geographical sites..Chile; homeostasis; manganese poisoning; neutron activation analysis; occupational hazards; radiolabeled chromium; radiolabeled iron; radiolabeled manganese

OH-00180 **RUSTAGI, JOGDISH S., Col. Arts, Sci., Ohio State Univ., Columbus, Ohio**
occupational hazards; lead poisoning; lead; mathematical models

RH-00222 **SPENCER, HERTA, Veterans Admin. Hosp., Hines, Ill.**
radioisotopes..strontium 85; magnesium; adrenal cortex hormones; parathyroid hormones; citrate; sodium sulfate; chelating agents; urine; feces; blood..plasma; calcium

NEUROLOGY

AM-03596 **DAVIS, RICHARD A., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
adrenal cortex hormones; adrenal glands; brain..hypothalamus; histamine; insulin; nervous system..autonomic nervous system; nervous system..vagus nerve; stomach..gastric juice

AM-07789 **STOREY, ARTHUR T., Sch. Dent., Univ. Michigan, Ann Arbor, Mich.**
larynx; mucous membrane; nervous system..laryngeal nerves; sensory mechanisms; stimulus; swallowing; water

CA-06466 **ALLEN, JAMES N., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
brain; brain neoplasms; enzymes; mucopolysaccharides;

CA-08237 **RUBINSTEIN, LUCIEN J., Sch. Med., Stanford Univ., Palo Alto, Cal.**
brain neoplasms; oxidoreductases; phosphatases

CD-00106 **ALLEN, RICHARD J., Univ. Michigan Med. Cr., Ann Arbor, Mich.**
nervous system..central nervous system; nutrition; amino acids; phenylketonuria; infant human; longitudinal study; therapy evaluation

DE-00586 **HARMAN, PINCKNEY J., Seton Hall Col. Med., Dent., Jersey City, N.J.**
dental structure; proprioceptors; electrostimulus; brain oscillography; nervous system..afferent nerves; nervous system..central nervous system

DE-01604 **AVERY, JAMES K., Sch. Dent., Univ. Michigan, Ann Arbor, Mich.**
dentistry; pain; dental structure..teeth; nervous system..trigeminal nerve

DE-01718 **KAWAMURA, YOJIRO, Sch. Dent., Osaka Univ., Osaka, Japan**
dentistry..mastication; jaw movements; tongue; brain; nervous system..trigeminal nerve; mouth; nervous system..hypoglossal nerve; joints..temporomandibular joint; sensory mechanisms; dental structure..teeth

DE-02075 **DIXON, ANDREW D., Sch. Dent., Univ. North Carolina, Chapel Hill, N.C.**
nerves..neurons; nervous system..trigeminal nerve; ganglion, nervous systems; cell components..organelles; choline esterases; nerves..myelination; aging

DE-02095 **JERGE, CHARLES R., Sch. Dent., Univ. Connecticut, Storrs, Conn.**
nervous system..trigeminal nerve; nerves..innervation; dental structure..periodontium; jaws; muscle stretch receptors; joints..temporomandibular joint; electrophysiology

DE-02259 **SMITH, R. DALE, Sch. Med., Creighton Univ., Omaha, Nebr.**
muscles..facial muscles; dentistry..mastication; nerves..innervation; joints..temporomandibular joint; neuromuscular transmission; muscle stretch receptors

GM-05219 **QUAY, WILBUR B., Col. Letters, Sci., Univ. California, Berkeley, Cal.**
brain..pineal body; electrolytes; brain; epithalamus; indoles; rhythm

GM-09267 **TIMIRAS, PALOA S., Grad. Sch., Univ. California, Berkeley, Cal.**
brain; acclimatization; altitude; centrally acting drugs

HD-00008 **LAIRY, GABRIELLE, Hosp. Henri Rousselle, Paris, France**
electroencephalography; child development; computer analysis; potentials..evoked potentials; neuromuscular disorders; eye disorders; psychological tests; emotional disturbance

HD-00230 **HUMPHREY, TRYPHENA, Univ. Alabama Med. Cr., Birmingham, Ala.**
fetus; reflex; body movement; brain..brain stem

HD-00323 **CONEL, J. LeROY, Children's Hosp. Med. Cr., Boston, Mass.**
brain..cerebral cortex; nerves..neurons; nerves..neurogenesis; children; publications..monograph

HD-00343 **LAW, O. THOMAS, Grad. Sch., Claremont Col., Claremont, Cal.**
brain..limbic system; brain..cerebral cortex; brain..hypothalamus; brain mapping; reaction sites; electrophysiology; estrogens; progesterone; sex behavior; neuroendocrine systems; sensory mechanisms; maternal behavior; emotional reactions

HD-00366 **OBRIST, WALTER D., Duke Univ. Med. Cr., Durham, N.C.**
aging; electroencephalography; cerebrovascular system; brain ischemia and hypoxia; blood flow; radioisotopes..xenon 133; computer analysis

HD-00964 **DUFFY, PHILIP E., Col. Phys., Surg., Columbia Univ., N.Y.C.**
gonadotropins; nerve endings; neuroendocrine systems; neurosecretion; pituitary gland..median eminence; sympatholytic agents; veins..pituitary portal veins; water-electrolyte balance

HD-01140 **JURKIEWICZ, M.J., Col. Med., Univ. Florida, Gainesville, Fla.**
cleft lip; cleft palate; genetics; teratogenic agents; glutamine analogs; DON; histogenesis

HD-01815 **HODES, ROBERT, Mount Sinai Hosp., New York, N.Y.**
electrophysiology; nervous system..afferent nerves; electrostimulus; potentials..evoked potentials; potentials..action potentials; child development; spinal reflex; neuromuscular transmission; nerves..motor neurons; infant human..premature infant; diagnostic tests; dysautonomia familial; blindness; deafness; diabetes; longitudinal study

HE-03111 **GUNN, CHESTERFIELD G., Jr., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.**
cardiovascular system; nervous system..central nervous system; nervous system..autonomic nervous system; atherosclerosis; blood coagulation

HE-03953 **SCHLESINGER, BENNO, Anatomical Inst., Univ. Vienna, Vienna, Austria**
cerebrovascular system; angiography; brain..thalamus

HE-07240 **VITUMS, ARTURS, Col. Vet. Med., Washington State Univ., Pullman, Wash.**
arteries..pituitary arteries; brain..hypothalamus; histogenesis; neuroendocrine systems; photosensitivity; pituitary gland..median eminence; pituitary gland..neurohypophysis; veins..pituitary portal veins

HE-08200 **BENOIT, PAUL E., Sch. Med., Creighton Univ., Omaha, Nebr.**
nervous system..sympathetic nervous system; nerves..innervation; skin; arteries; primates..monkeys

HE-09482 **BALDWIN, BERNELL E., Sch. Med., Loma Linda Univ., Loma Linda, Cal.**
heart rate; heart rhythm; nerve impulse transmission; cholinergic receptors; adrenergic receptors; brain..cerebral cortex; brain..subcortical structures; brain lesions; electrostimulus; heart..myocardium; muscles..myofibrils; exercise

MH-02413 **DeMOTT, DONALD W., Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.**
electroencephalography; electronic recording; brain..cerebral cortex; primates..monkeys; learning; brain lesions; instrumentation; brain toposcope

MH-03165 **PORTER, PAUL B., Grad. Sch., Univ. Utah, Salt Lake City, Utah**
conditioning..operant conditioning; rewards and nonrewards; brain..limbic system; electrostimulus; stimulus generalization; behavior

(contd)

LISTING OF GENERAL RESEARCH AREAS

NEUROLOGY (CONTD)

MH-03708 **ADEY, WILLIAM R., Sch. Med., Univ. California, Los Angeles, Cal.**
electrical impedance; brain..cerebral cortex; brain.. subcortical structure; conditioning; mathematical models; nerves..neurons; nerves..neuroglia

MH-05316 **LANGWORTHY, ORTHELLO R., Col. Med., Johns Hopkins Hosp., Baltimore, Md.**
brain; phylogeny; behavior

MH-06825 **SCHADE, JOHANNIS P., Central Inst. Brain Res., Amsterdam, The Netherlands**
brain..cerebral cortex; brain disorders; mental disorders; nerves..axons; nerves..dendrites; nerves..synapse

MH-08603 **WOODWARD, JOHN S., Camarillo State Hosp., Camarillo, Cal.**
mental disorders; brain; brain disorders; neuropathology

MH-10399 **SAMUELS, STANLEY, Sch. Med., New York Univ., New York, N.Y.**
senile dementia; Alzheimer's disease; arteriosclerosis; brain

NB-00152 **ADAMS, RAYMOND D., Sch. Med., Harvard Univ., Boston, Mass.**
brain..thalamocortical tracts; brain..limbic system; brain mapping; nerves degeneration..Wallerian degeneration; cerebrovascular disorders; brain lesions; congenital abnormalities; primates..Macaca mulatta

NB-00193 **WARD, ARTHUR A., Jr., Sch. Med., Univ. Washington, Seattle, Wash.**
electrodes..microelectrodes; brain..cerebral cortex; potentials, membrane potentials; epilepsy

NB-00201 **PETERS, JOSEPH J., Xavier Univ., Cincinnati, Ohio**
embryology; nervous system; hypothermia; muscle; muscle relaxants..anticonvulsants; hypoxia

NB-00342 **SULKIN, NORMAN M., Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.**
aging; cytology; dietary deficiency; hypoxia; mucopolysaccharides; nerves..neurons; pigments

NB-00361 **POPE, ALFRED, McLean Hosp., Belmont, Mass.**
brain..cerebral cortex; choline esterases..acetylcholinesterase; gangliosides; lipases; lipids; nucleic acids; proteases..peptidases; proteins; senile dementia

NB-00367 **MAGLADERY, JOHN W., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
aging; congenital abnormalities; electrodes..microelectrodes; electrophysiology; metabolic diseases; muscle stretch reflex; nervous system disorders; reflex; skin; spinal cord lesions

NB-00396 **TOWE, ARNOLD L., Grad. Sch., Univ. Washington, Seattle, Wash.**
brain..cerebellum; brain..cerebral cortex; brain..somesthetic sensory area; brain mapping; electrophysiology; nerve impulse facilitation; nerve impulse inhibition; nervous system..pyramidal tracts; single cell analysis

NB-00405 **GARDNER, ERNEST D., Col. Med., Wayne State Univ., Detroit, Mich.**
brain..cerebral cortex; brain..cerebellum; brain lesions; limbs movement; electroencephalography; conditioning; brain..sensory cortex; single cell analysis

NB-00418 **WAGGONER, RAYMOND W., Univ. Michigan Med. Sch., Ann Arbor, Mich.**
brain neoplasms; nerves..neuroglia; nervous system; nervous system neoplasms; silver impregnation techniques

NB-00425 **DEMPSEY, EDWARD W., Washington Univ., St. Louis, Mo.**
brain; edema; electron microscopy; histogenesis; nerves degeneration; nervous system neoplasms; nervous system.. sympathetic nervous system; poisoning

NB-00470 **SPIEGEL, ERNEST A., Sch. Med., Temple Univ., Philadelphia, Pa.**
tremor; Parkinson's disease; brain..thalamus; brain lesions; electrostimulus; brain..caudate nucleus; nervous system..efferent nerves; catatonia; brain..subcortical structures; neurosurgery

NB-00557 **WAELSCH, HEINRICH B., Res. Fdn. Mental Hygiene, New York, N.Y.**
amino acid; blood--brain barrier; glutamates; ammonia; brain; liver; aspartic acid; carbon dioxide fixation; Krebs cycle; histones; ribonucleic acid; polymerases

NB-00649 **VERZEANO, MARCEL, Sch. Med., Univ. California, Los Angeles, Cal.**
anesthetics; brain; consciousness; convulsants; magnetic recording system; nerve impulse facilitation; nerve impulse inhibition; perception; potentials..slow potentials; psychotomimetic drugs; single cell analysis; tranquilizers

NB-00665 **FRENCH, LYLE A., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
hypothermia; potentials; brain..cerebral cortex; brain.. thalamocortical tracts; electrostimulus; electrodes.. microelectrodes

NB-00692 **STRAIN, WILLIAM H., Sch. Med., Univ. Rochester, Rochester, N.Y.**
organic acids; radiolabeled iodine; contrast media; brain; blood--brain barrier; β--aminopropionitrile; zinc; dietary deficiency; cerebral aneurysms

NB-00704 **INGERSOLL, EVERETT H., Med. Col. Virginia, Richmond, Va.**
lathyrism; nervous system..autonomic nervous system; urinary bladder; primates..monkeys; nerves..innervation; iminodipropionitrile; body movement; rewards and nonrewards; conditioning..avoidance; behavior; nervous system; radiation effects

NB-00732 **WOOLSEY, CLINTON N., Univ. Wisconsin, Madison, Wis.**
brain mapping; primates..chimpanzees; primates, lemurs; publications..monograph; electrophysiology; nervous system; sweat; brain lesions; conditioning..avoidance; learning; phylogeny

NB-00779 **NULSEN, FRANK E., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
analgesics; electrophysiology; nerves..neurofibrils; nervous system..afferent nerves; nervous system..central nervous system; nervous system..peripheral nerves; primates..monkeys; sensory mechanisms

NB-00818 **STONE, WILLIAM E., Sch. Med., Univ. Wisconsin, Madison, Wis.**
brain..cerebral cortex; metabolites; drugs; electrodes; potentials; radiolabeled carbon; hypoglycemia; glucose; hexahydro--1,3,5--trinitro--s--triazine; convulsants; muscle relaxants, anticonvulsants; amino acids; lipids; nucleic acids

NB-00840 **SCHARRER, BERTA, Albert Einstein Col. Med., New York, N.Y.**
neurosecretion; cell components..Golgi apparatus; cell components..granules; pituitary gland..neurohypophysis; vasopressin; nerves; thyroid hormones

NB-00847 **BROOKS, CHANDLER M., Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.**
nerves..neurons; brain..cerebellum; nervous system.. peripheral nerves; nervous system..autonomic nervous system; spinal reflex; nerve impulse transmission; respiration; nerves..neurofibrils, gamma; electrophysiology; neuroendocrine systems; brain..hypothalamus; neurohormones; brain..thalamus; brain..supraoptic nucleus; vasopressin; milk ejection reflex

NB-00858 **MURRAY, MARGARET R., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
ganglion, nervous system..spinal ganglion; brain.. cerebellum; nerves..myelination; nerves..demyelination; diphtheria toxin; ganglion, nervous system..sympathetic ganglia; spinal cord; nerve growth promoting protein, sympathetic; thallium; poisoning

NB-00874 **DAVIS, GEORGE D., Sch. Med., Louisiana State Univ., New Orleans, La.**
brain lesions; brain, subcortical structures; brain, frontal lobe; limbs movement; behavior; learning; electrostimulus; stress; nervous system..autonomic nervous system; primates, squirrel monkeys

NB-00875 **KOPELOFF, LENORE M., New York State Psychiatric Inst., New York, N.Y.**
epilepsy; brain..motor cortex; injections; metal; powders; primates..monkeys

NB-00894 **HARVEY, A. McGHEE, Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
neuromuscular system; diurnal variation; fatigue; neuromuscular disorders; joint stiffness; therapy evaluation; immunology..autoimmunology; myasthenia gravis; potentials; neuromuscular junction; oximes; Parkinson's disease; body movement

NB-01017 **FRY, WILLIAM J., Grad. Sch., Univ. Illinois, Urbana, Ill.**
ultrasonics; radiation effects; brain lesions; dosage; cell components; nervous system..central nervous system

NB-01024 **HOFF, EBBE C., Med. Col. Virginia, Richmond, Va.**
adrenal glands; brain..cerebral cortex; cardiovascular diseases; cardiovascular system; gastrointestinal system; primates..monkeys; salivary glands; thermoregulation

NB-01046 **NIEMER, WILLIAM T., Sch. Med., Creighton Univ., Omaha, Nebr.**
brain..telencephalon; brain..hypothalamus; electrostimulus; brain lesions; brain mapping; potentials.. evoked potentials; brain..subcortical structures; behavior; primates..monkeys

NB-01059 **WEBSTER, DAVID D., Veterans Admin. Hosp., Minneapolis, Minn.**
brain lesions; chemotherapy; instrumentation; limbs movement; longitudinal study; nervous system..extrapyramidal tracts; nervous system..pyramidal tracts; neurosurgery; Parkinson's disease; spasms; tetanus, nonclostridial; tremor

NB-01063 **SCHEIBEL, ARNOLD B., Sch. Med., Univ. California, Los Angeles, Cal.**
age; behavior; brain..reticular formation; electrophysiology; nerves..neuroglia; nerves..synapse

NB-01081 **WEBER, ALVIN F., Col. Vet. Med., Univ. Minnesota, Minneapolis, Minn.**
congenital abnormalities; tremor; spinal cord..dorsal root; spinal cord..ventral root; monitoring; limbs movement; spinal reflex; hypothermia; electrophysiology

NB-01140 **STEVENS, JANICE R., Sch. Med., Univ. Oregon, Portland, Ore.**
psychoses; epilepsy; environment; behavior; electroencephalography; conditioning; brain..brain stem; potentials..spike potential

NB-01143 **ELDRED, EARL, Sch. Med., Univ. California, Los Angeles, Cal.**
conditioning; learning; limbs movement; muscle stretch receptors; nervous system..efferent nerves; paralysis; shiver

NB-01151 **SAMSON, FREDERICK E., Jr., Col. Arts, Sci., Univ. Kansas, Lawrence, Kans.**
nucleotides; phosphocreatine; phosphates; high energy compounds; brain; hormones

NB-01162 SAWYER, CHARLES H., Sch. Med., Univ. California, Los Angeles, Cal.
electrophysiology; brain lesions; electrodes; brain.. rhinencephalon; brain..brain stem; brain mapping; pituitary hormones; neuroendocrine systems; behavior; sex hormones; progestins; ovulation inhibitors; conditioning; sleep

NB-01246 McQUEEN, JOHN D., Baltimore City Hosp., Baltimore, Md.
hypothermia; intracranial pressure; cerebrospinal fluid pressure; blood pressure; brain edema; brain; primates.. monkeys; mannitol; blood flow

NB-01300 ECHLIN, FRANCIS A., Lenox Hill Hosp., N.Y.C.
epilepsy; nervous system..peripheral nerves; electro-stimulus; choline esterases; electrocorticography; nerves.. denervation; brain..cerebral cortex; cerebral cortex isolation technique; primates..monkeys

NB-01324 ANDERSON, FRANK D., Seton Hall Col. Med., Dent., Jersey City, N.J.
spinal cord mapping; brain mapping; nervous system.. afferent nerves; brain..thalamus; brain..hypothalamus; spinal cord; electrophysiology; electrodes..micro-electrodes; single cell analysis; nerves degeneration; spinal cord lesions

NB-01352 LOWRY, OLIVER H., Sch. Med., Washington Univ., St. Louis, Mo.
nervous system..central nervous system; glycogen; enzymes; metabolites; NAD; NADP

NB-01421 BOSHES, BENJAMIN, Sch. Med., Northwestern Univ., Evanston, Ill.
brain ischemia and hypoxia; muscle tension; nerve endings; neurosurgery; Parkinson's disease; tremor; voice

NB-01441 BRODY, HAROLD, Sch. Med., State Univ. New York, Buffalo, N.Y.
aging; brain..cerebral cortex; nervous system..cranial nerves; nerves..neurons; pigments; cell volume

NB-01456 KOENIG, HAROLD, Northwestern Univ. Med. Sch., Evanston, Ill.
azauridine; carbamyl aspartate; 5-fluoroorotic acid; nervous system; orotic acid; pyrimidine nucleotides; ribonucleic acid

NB-01503 KING, ROBERT B., Upstate Med. Cr., State Univ. New York, Albany, N.Y.
nervous system..trigeminal nerve; potentials; electro-stimulus; brain; strychnine

NB-01538 CARPENTER, MALCOLM B., Col. Phys., Surg., Columbia Univ., New York, N.Y.
primates..monkeys; brain mapping; brain lesions; labyrinthectomy; infant animals..newborn; nerves degeneration..Wallerian degeneration; brain..vestibular nucleus; nervous system..medial longitudinal fasciculus; eye movement

NB-01548 GOODMAN, DONALD C., Col. Med., Univ. Florida, Gainesville, Fla.
brain..cerebellum; brain mapping; nervous system.. efferent nerves

NB-01567 FRY, WILLIAM J., Grad. Sch., Univ. Illinois, Urbana, Ill.
brain mapping; brain..fornix cerebri; brain..mammillary bodies; brain..thalamic nuclei; instrumentation; radiation effects; ultrasonics; brain lesions; behavior

NB-01601 KOSKOFF, YALE D., Montefiore Hosp., Pittsburgh, Pa.
hemispherectomy; primates..monkeys; conditioning; discrimination; behavior; brain, limbic system; neurosurgery; emotional reactions; hippocampectomy; memory-retention

NB-01602 LEVI-MONTALCINI, RITA, Washington Univ., St. Louis, Mo.
brain..prosencephalon; electrophysiology; photostimulus; brain..visual cortex; electrodes..microelectrodes; brain.. cerebral cortex; nerves..dendrites; skin; sense organs; nervous system..sympathetic nervous system

NB-01603 AMASSIAN, VAHE E., Col. Med., Yeshiva Univ., N.Y.C.
potentials; brain..cerebral cortex; brain.. reticular formation; electrodes..microelectrodes; computer analysis; nerves..neurons; consciousness; anesthesia; criteria

NB-01620 WOLF, ABNER, Col. Phys., Surg., Columbia Univ., New York, N.Y.
viruses; immunofluorescence; pregnancy..perinatal; pregnancy..placental transfer; brain damage; congenital abnormalities; electrostimulus; convulsions; antimetabolites; tritium; embryology; nervous system disorders

NB-01631 STOTLER, WILLIAM A., Med. Sch. Univ. Oregon, Portland, Ore.
brain..auditory cortex; brain..brain stem; nervous system.. auditory nerve; primates..monkeys

NB-01634 HARMAN, PICKNEY J., Sch. Med., Dent., Seton Hall Col., Jersey City, N.J.
enzymes; genetics; histogenesis; muscle; muscular dystrophy; nerves..myelin; neuromuscular disorders

NB-01687 AUSTIN, GEORGE, Sch. Med., Univ. Oregon, Portland, Oregon
computer analysis; ganglion (nervous system).. spinal ganglion; nerve impulse facilitation; potentials.. action potential; potentials..membrane potentials; regeneration; single cell analysis

NB-01703 RALSTON, BRUCE L., Mt. Sinai Hosp., N.Y.C.
publications..atlas; electrocorticography; penicillin; electrostimulus; epilepsy; primates..monkeys; potentials.. spike potential; brain mapping; brain..cerebral cortex; brain..subcortical structures; computer

NB-01716 HAMBURGH, MAX, Sch. Med., Yeshiva Univ., N.Y.C.
nervous system..central nervous system; histogenesis; mutations; hyperthyroidism; congenital abnormalities; cytology

NB-01755 WINKELMANN, RICHARD K., Mayo Assn., Rochester, Minn.
skin; primates; nerve endings; species; skin neoplasms; nervous system neoplasms; congenital abnormalities; nervous system disorders; choline esterase

NB-01804 HOFFMAN, HENRY H., University Alabama Medical Center, Birmingham, Ala.
nervous system..visceral afferent nerves; sense organs; nervous system..olfactory nerve

NB-01847 ROUSER, GEORGE, City Hope Med. Cr., Duarte, Cal.
sphingolipidosis; Gaucher's disease; Niemann--Pick disease; lipids; metabolic diseases, inborn; fatty acids

NB-01859 SIMONSON, ERNST, Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.
aging; cardiovascular diseases; cardiovascular system; nervous system; respiration; stress

NB-01883 ADEY, WILLIAM R., Sch. Med., Univ. California, Los Angeles, Cal.
age; behavior; brain..sensory cortex; brain..temporal lobe; brain..rhinencephalon; computer analysis; conditioning; electrical impedance; learning; mathematical models; primates..monkeys; sensory deprivation; single cell analysis

NB-01913 BORNSTEIN, MURRAY B., Mt. Sinai Hosp., New York, N.Y.
nervous system disorders; nerves..demyelination; allergic encephalomyelitis; immunology; electron microscopy; congenital abnormalities; nervous system.. central nervous system; genetics; viruses

NB-01916 FANKHAUSER, RUDOLF, Univ. Bern, Bern, Switzerland
nervous system disorders; veterinary medicine; inflammation; nervous system neoplasms; species; hermaphroditism; brain..pineal body

NB-01919 BRADFORD, F. KEITH, Col. Med., Baylor Univ., Houston, Tex.
radiolabeled iron; blood cells..erythrocytes; radiolabeled gold; blood circulation dynamics; heparin; meningeal hemorrhages; meninges.. subarachnoid space; meninges..subdural space

NB-02032 SLOVITER, HENRY A., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
arteries..carotid arteries; brain..cerebral ventricles; brain; hypoglycemic agents; hyperglycemia agents; behavior; electroencephalography; blood sugar; glycerin

NB-02056 BICKFORD, REGINALD G., Mayo Assn., Rochester, Minn.
electroencephalography; epilepsy; computer diagnosis; behavior

NB-02080 RAYPORT, MARK, Albert Einstein Col. Med., Bronx, N.Y.
electrodes..microelectrodes; brain..cerebral cortex; electrocorticography; epilepsy; strychnine; penicillin; ethyl chloride; potentials..spike potential; cerebral cortex isolation technique; primates, monkeys

NB-02082 PETERSON, CLARE G., Sch. Med., Univ. Oregon, Portland, Ore.
hemorrhagic shock; hypotension; spinal reflex; spinal cord; brain; nerve impulse facilitation; nerve impulse inhibition; arteries..carotid sinus; blood coagulation; electrophysiology

NB-02151 JOHNSON, THOMAS N., Sch. Med., George Washington Univ., Washington, D.C.
brain..basal ganglia; brain..thalamus; brain lesions; primates..monkeys

NB-02185 JAVID, MANUCHER J., Univ. Wisconsin, Madison, Wis.
urea; therapy; intracranial pressure; toxicology; brain edema; hyperosmolarity; perfusion

NB-02219 LEAO, ARISTIDES A.P., Univ. Brazil, Rio de Janeiro, Brazil
nervous system..central nervous system; nervous system disorders; potentials; water-electrolyte balance

NB-02233 KJELLBERG, RAYMOND N., Mass. Gen. Hosp., Boston, Mass. Parkinson's disease; neurosurgery; electrophysiology brain; chemotherapy; primates..monkeys; animal facilities; longitudinal study; instrumentation; proton beam; stereotaxia; limbs movement; ganglionic blocking agents

NB-02289 DOW, ROBERT S., Good Samaritan Hosp., Portland, Ore.
brain..cerebellum; convulsions; cobalt; brain lesions; cold; brain ischemia and hypoxia; sensory mechanisms; electrophysiology; brain mapping; nerves..innervation; muscles; cerebellar syndrome; tetanus toxin

NB-02290 WOLFMAN, EARL F., Jr., Univ. Michigan, Ann Arbor, Mich.
water-electrolyte balance; brain lesions; osmoreceptors; brain..diencephalon; aldosterone; vasopressin; brain.. hypothalamus; primates, monkeys; therapy

NB-02306 ARANA-INIGUEZ, ROMAN, Inst. Neurologia, Montevideo, Uruguay
blood circulation dynamics; brain; echinococcosis; helminth cysts; intracranial pressure; nervous system

NB-02311 KIMMEL, DONALD L., Chicago Med. Sch., Chicago, Ill.
nervous system..afferent nerves; nervous system.. spinal nerves; nervous system..cranial nerves; brain; spinal cord; fetus

(contd)

NEUROLOGY (CONTD)

NB-02312 KIMMEL, DONALD L., Chicago Med. Sch., Chicago, Ill.
regeneration; nerves; spinal cord; proteins; lipoproteins; brain; fetus

NB-02339 BAKER, JOHN B., Sch. Med., Marquette Univ., Milwaukee, Wis.
cerebrovascular disorders; cerebral hemorrhage; blood circulation dynamics

NB-02420 VAN BOGAERT, LUDO, Wor. Fed. Neuro., Antwerp, Belgium
conferences..international meetings; information exchange; medical research; nervous system disorders; travel; publications

NB-02425 PALSSON, PALL A., Univ. Iceland, Reykjavik, Iceland
blood..serum; cytopathogenic effect, viral; host-virus; immunological tests; sheep; vaccines..viral vaccines; Visna

NB-02464 MENDEZ-CASHION, DOLORES I., Sch. Med., Univ. Puerto Rico, San Juan, P.R.
nervous system disorders; children; climate..tropical climate; geographical sites..Puerto Rico; immunology.. antibodies; viruses; longitudinal study

NB-02468 KELLAWAY, PETER, Col. Med., Baylor Univ., Houston, Tex.
brain..cerebral cortex; electrodes..microelectrodes; cerebral cortex isolation technique; nerves..neurons; electrocorticography; anesthetics; electroencephalography; psychotropic drugs; single cell analysis; brain ischemia and hypoxia

NB-02469 ROSOMOFF, HUBERT L., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
brain damage; injuries; cerebrospinal fluid; hypothermia; hydrodynamics; carbon dioxide tension; transplantation; meninges..dura mater; bone transplantation; ethylenediamine

NB-02470 CLYNES, MANFRED E., Research Fdn. Mental Hygiene, Inc., Middletown, N.Y.
pupillary reflex; pupillography; photostimulus; RHR reflex; brain; electrophysiology; computer; nervous system..parasympathetic nervous system; nervous system..sympathetic nervous system

NB-02507 PARSONS, OSCAR A., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
arousal; brain..cerebral cortex; brain damage; diagnostic tests; vision tests..flicker fusion; visual field

NB-02560 KOOI, KENNETH A., Univ. Michigan Med. Cr., Ann Arbor, Mich.
potentials..evoked potentials; photostimulus; brain damage; computer diagnosis

NB-02575 OLDENDORF, WILLIAM H., Veterans Admin. Cr., Los Angeles, Cal.
radioisotopes; blood flow; cerebrovascular system; monitoring

NB-02576 FRONTERA, JOSE G., Sch. Med., Univ. Puerto Rico, San Juan, Puerto Rico
brain..insula; brain..claustrum; brain..amygdaloid nucleus; brain..cingulum; primates..monkeys

NB-02622 ELLIS, SYDNEY, Woman's Med. Col. Pennsylvania, Philadelphia, Pa.
neurohormones; nerve impulse transmission; nervous system..parasympathetic nervous system; atropine; fractionation; drugs

NB-02637 WILCOX, HARRY H., Sch. Biol. Sci., Univ. Tennessee, Memphis, Tenn.
brain..claustrum; brain..telencephalon; brain..brain stem; brain mapping

NB-02666 BACH, L. MATTHEW, Sch. Med., Tulane Univ., New Orleans, La.
brain..reticular formation; brain mapping; conditioning; electrophysiology; nerve impulse facilitation; nerve impulse inhibition; pharyngeal reflex

NB-02706 COMBS, C. MURPHY, Sch. Med., Northwestern Univ., Chicago, Ill.
brain..thalamic nuclei; brain..cerebral cortex; brain.. cerebellum; electrostimulus; photostimulus; primates.. monkeys; brain mapping

NB-02745 BUCY, PAUL C., Chicago Wesley Mem. Hosp., Chicago, Ill
body movement; brain..cerebral peduncles; brain.. mesencephalon; brain lesions; decortication; nervous system..efferent nerves; primates..monkeys

NB-02767 ALPERS, BERNARD J., Jefferson Med. Col., Philadelphia, Pa.
blood collateral circulation; cerebroarterial occlusions and thrombosis; cerebrovascular disorders

NB-02793 NASHOLD, BLAINE S., JR., Duke Univ., Durham, N.C.
athetosis; chorea; cerebral palsy; therapy evaluation; neurosurgery; brain..thalamus; brain..globus pallidus

NB-02812 WADA, JOHN A., Univ. British Columbia, Vancouver, B.C., Canada
longitudinal study; epilepsy; brain lesions; behavior; learning; electrophysiology; primates..monkeys; computer analysis; potentials, evoked potentials; sulfoximine methionine

NB-02853 ANGEVINE, JAY B., Jr., Sch. Med., Harvard Univ., Boston, Mass.
histogenesis; tritium; cell migration; brain..cerebral cortex; pregnancy..placental transfer

NB-02857 BOCCABELLA, ANTHONY V., Sch. Med., Dent., Seton Hall Col., Jersey City, N. J.
endocrine glands; muscular dystrophy

NB-02888 BRAY, PATRICK F., Sch. Med., Univ. Utah, Salt Lake City, Utah
temporal lobe syndrome; longitudinal study; children; psychological tests; genetics; neurosurgery; electrophysiology; visual perception; personality

NB-02893 KRIEGER, HOWARD P., Mt. Sinai Hosp., N.Y.C.
adrenal glands; brain..hypothalamus; gonads; nerves.. synapse; neuroendocrine systems; pituitary hormones; stereotaxia

NB-02896 WHITE, LOWELL E., Jr., Grad. Sch., Univ. Washington, Seattle, Wash.
brain..limbic system; nervous system..olfactory nerve; brain..hippocampus; brain lesions; brain..cingulum; brain..septum pellucidum

NB-02898 SWEET, WILLIAM H., Massachusetts Gen. Hosp., Boston, Mass.
brain lesions; brain neoplasms; neuromuscular disorders; primates..monkeys; proton beam; radiation therapy

NB-02916 ANDERSON, FRANK D., Sch. Med., Seton Hall Col., Jersey City, N.J.
brain..hypothalamus; brain..reticular formation; brain..thalamus; nervous system..afferent nerves; spinal cord; stereotaxia

NB-02956 FORBES, ALEXANDER, Harvard Univ., Cambridge, Mass.
learning; nervous system; photostimulus; nerves..synapse

NB-03019 ELDRED, EARL, Sch. Med., Univ. California, Los Angeles, Cal.
muscle stretch receptors; muscle; sense organs; muscle contraction

NB-03020 ROTH, JOHN G., Sch. Med., Univ. Oregon, Portland, Ore.
brain..cerebral cortex; threshold; potentials..after potentials; electrostimulus; electrodes..platinum electrodes; longitudinal study; instrumentation-methodology; cerebral cortex isolation technique

NB-03045 BERMAN, AARON J., Jewish Chronic Dis. Hosp., Brooklyn, N.Y.
conditioning..avoidance; reinforcement; spinal cord.. dorsal root; primates..monkeys; sensory mechanisms; psychomotor functions

NB-03070 SAMSON, FREDERICK E., Jr., Grad. Sch., Univ. Kansas, Lawrence, Kans.
cell components..organelles; brain..cerebrum; infant animals..newborn; age; cell components..mitochondria; calcium; phosphates; adenosine triphosphate; aminotransferases..aspartate transaminase

NB-03097 LILLY, JOHN C., Communication Res. Inst., Miami, Fla.
brain mapping; behavior; vocalization; electrostimulus; brain; speech; reinforcement

NB-03105 SEGARRA, JOSEPH M., Boston Veterans Admin. Hosp., Jamaica Plain, Mass.
instrumentation; flying spot microscopy; electronic recording; densitometry; nerves..neurons; brain; nervous system disorders

NB-03180 VON BONIN, GERHARDT, Mt. Zion Hosp., Med. Cr., San Francisco, Cal.
brain..basal ganglia; brain..subcortical structures; brain lesions; cold; heat; neurosurgery; Parkinson's disease; primates..monkeys

NB-03206 MERLIS, JEROME K., Sch. Med., Univ. Maryland, Baltimore, Md.
epilepsy; pentylenetetrazol; potentials; brain..cerebral cortex; potentials..spike potential; computer; potentials.. evoked potentials; direct cortical response; threshold; antibiotics..penicillin; freezing

NB-03222 LELE, PADMAKAR P., Massachusetts Gen. Hosp., Boston, Mass.
brain; conditioning; discrimination; electrophysiology; pain; primates..monkeys; radiation therapy; sensory mechanisms; spinal cord; temperature; touch; ultrasonics

NB-03225 BICKFORD, R.G., Mayo Assn., Rochester, Minn.
epilepsy; visual stimulus; electrocorticography; electrodes; potentials; brain..visual pathways; brain lesions; brain..cerebral cortex; primates..monkeys; muscle relaxants..anticonvulsants; convulsants; stimulants

NB-03236 ANDERSON, PAUL J., Mount Sinai Hosp., New York, N.Y.
phosphomonoesterases..acid phosphatases; nervous system; nervous system disorders

NB-03237 SMITH, WILBUR K., Univ. Rochester Med. Cr., Rochester, N.Y.
brain; electrophysiology; electrostimulus; hunger; kidney function; neurosecretion; primates..monkeys; thirst; vasopressin; water loading

NB-03249 WELKER, WALLACE I., Sch. Med., Univ. Wisconsin, Madison, Wis.
brain; histogenesis; phylogeny; cytology; electrophysiology

NB-03255 AUSTIN, JAMES H., Sch. Med., Univ. Oregon, Portland, Ore.
metachromatic leucoencephalopathy; Krabbe's disease; genetics; nerves..myelin

NB-03268 BROWMAN, LUDVIG G., Grad. Sch., Montana State Univ., Missoula, Mont.
microphthalmia; brain..visual pathways; brain..hypothalamus; neurosecretion

NB-03275 CHAMBERS, RICHARD A., Seton Hall Col. Med., Jersey City, N.J.
eastern encephalitis; geographical sites..New Jersey; epidemiology; longitudinal study

NB-03325 BIRZIS, LUCY, Stanford Res. Inst., Menlo Park, Cal.
nervous system..central nervous system; fatigue; stimulants; arousal; electrostimulus; brain..reticular formation; blood flow; cerebrovascular system

NB-03343 **BLOOR, BYRON M., West Virginia Univ. Med. Cr., Morgantown, W. Va.**
oxygen tension; cerebrospinal fluid; blood flow; nervous system..sympathetic nervous system; hypothermia; cerebrovascular system; cerebrovascular disorders; primates..monkeys

NB-03371 **BOGDANOVE, EMANUEL M., Sch. Med., Indiana Univ., Bloomington, Ind.**
brain..hypothalamus; gonadotropins; gonads; pituitary gland; prolactin; sex hormones; thyroid hormones; thyrotropin

NB-03385 **BAKER, ROBERT N., Sch. Med., Univ. California, Los Angeles, Cal.**
atherosclerosis; blood coagulation..anticoagulants; brain; brain ischemia and hypoxia; cerebroarterial occlusions extracranial; cerebrovascular disorders; cerebrovascular system; cooperative study; therapy

NB-03392 **WALKER, A. EARL, Johns Hopkins Univ., Baltimore, Md.**
brain..cerebral cortex; brain..putamen; brain..subcortical structures; brain lesions; children; enzymes; epilepsy; injury..head injury; longitudinal study; membrane permeability; potentials; primates..chimpanzees

NB-03418 **TORRES, FERNANDO, Univ. Minnesota Hosp., Minneapolis, Minn.**
cerebral palsy; child development; cooperative study; diagnostic tests; electroencephalography; infants (human).. newborn; longitudinal study; pregnancy..perinatal

NB-03426 **ROSE, JERZY E., Sch. Med., Univ. Wisconsin, Madison, Wis.**
brain..brain stem; cytology; publications..atlas

NB-03427 **BERLIN, LOUIS, Sch. Med., Yeshiva Univ., N.Y.C.**
brain..cerebral cortex; nervous system..pyramidal tracts; electrophysiology; electrodes; convulsions; nerves..interneurons; nerves..neurogenesis

NB-03429 **COBB, STANLEY, Massachusetts Gen. Hosp., Boston, Mass.**
brain..auditory nucleus; species; brain mapping; behavior; visual field; conditioning; visual stimulus; brain.. cerebrum; nerves..neurons; body density

NB-03472 **CRUE, BENJAMIN L., Jr., Huntington Mem. Hosp., Pasadena, Cal.**
nervous system..trigeminal nerve; nervous system.. afferent nerves; potentials..after potentials; pain; sensory mechanisms; hypoxia; barbiturates; muscle relaxants; nerve impulse transmission; brain mapping

NB-03473 **NOBACK, CHARLES R., Col. Phys., Surg., Columbia Univ., N.Y.C.**
brain..cerebral cortex; embryology; nerves..neurons; phylogeny

NB-03475 **TUNCBAY, TURE O., Sch. Med., Northwestern Univ., Chicago, Ill.**
Parkinson's disease; tetanus; pyramidal; muscle; neuromuscular junction; nerves; innervation; thalamectomy

NB-03477 **DENNY-BROWN, DEREK E., Harvard Univ., Cambridge, Mass.**
cerebrovascular system; endothelium permeability; brain ischemia and hypoxia; blood--brain barrier; brain disorders; primates..monkeys

NB-03483 **KUPFER, CARL, Massachusetts Eye, Ear Inf., Boston, Mass.**
nerves degeneration..transneuronal degeneration; brain.. geniculate body lateral; injury; eye..retina; nervous system..optic nerve; brain..optic chiasma; brain..optic tracts; vision

NB-03496 **EIDELBERG, EDURADO, Barrow Neuro. Inst., Phoenix, Ariz.**
nerves..synapse; brain..amygdala; nerve impulse transmission; electrophysiology; sympatholytic agents; sympathomimetic agents; conditioning..operant conditioning; primates..monkeys; epilepsy

NB-03514 **CHATRIAN, GIAN E., Grad. Sch., Univ. Washington, Seattle, Wash.**
epilepsy; cerebrovascular disorders; audiostimulus; photostimulus; chemotherapy; metabolic diseases

NB-03543 **MORRELL FRANK, Sch. Med., Stanford Univ., Palo Alto, Cal.**
learning; electrophysiology; conditioning; electrostimulus; brain..cerebral cortex; brain mapping; nerves..synapse; nerves..neurons; nerve impulse transmission

NB-03581 **CORRELL, JAMES W., Col. Phys., Surg., Columbia Univ., N.Y.C.**
nervous system; electrostimulus; lipids; brain; brain lesions; hyperlipemia; nerves; adipose tissue

NB-03585 **POWELL, ERVIN W., Sch. Med., Univ. Mississippi, Jackson, Miss.**
brain..septum pellucidum; brain mapping; brain.. telencephalon; brain..diencephalon; brain..brain stem; electrophysiology

NB-03595 **LENDING, MIRIAM, New York Med. Col., New York, N.Y.**
serotonin; nervous system disorders; congenital abnormalities; brain neoplasms; oxidoreductases.. monoamine oxidase; enzymes inhibitors..monoamine oxidase inhibitors; cerebrospinal fluid; therapy

NB-03604 **MAXWELL, DAVID S., Sch. Med., Univ. California, Los Angeles, Cal.**
nerves..neurons; neurosecretion; electron microscopy; nerves..neuroglia; pituitary gland

NB-03606 **DOTY, ROBERT W., Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.**
learning; nervous system..central nervous system; behavior; discrimination; primates..monkeys; brain oscillography; brain..visual pathways; electrophysiology; primates..squirrel monkeys, Macaques; swallowing

NB-03615 **PAPPENHEIMER, JOHN R., Sch. Med., Harvard Univ., Boston, Mass.**
perfusion; meninges..subarachnoid space; brain..cerebral ventricles; blood--cerebrospinal fluid barrier; electrolytes; kidney function; brain..respiratory center

NB-03620 **SCHNEIDER, RICHARD C., Med. Sch., Univ. Michigan, Ann Arbor, Mich.**
brain lesions; brain..cerebral cortex; brain..cerebellum; muscle tone; body movement; neurosurgery; cerebral palsy; neuromuscular diseases

NB-03672 **BLEIER, RUTH H., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
brain..hypothalamus; brain lesions; brain mapping; nerves degeneration

NB-03693 **GAY, ANDREW J., Sch. Med., Washington Univ., St. Louis, Mo.**
retinopathy; nerves degeneration; brain..geniculate body lateral; primates..squirrel monkeys

NB-03715 **PERL, JOHN I., Nelson M. Percy Med. Res. Fdn., Chicago, Ill.**
colloids; injury..scars; nerves; neurosurgery; radiation effects; radioisotopes..phosphorus 32; regeneration; transplantation

NB-03727 **OESTER, YVO T., Stritch Sch. Med., Loyola Univ., Chicago, Ill.**
peripheral nerves lesions; infants, animals, newborn; anelectrostimulus; neuromuscular system; injury; pregnancy.. childbirth; neuromuscular disorders

NB-03728 **GRUNDFEST, HARRY, Sch. Med., Columbia Univ., N.Y.C.**
electrophysiology; cell components..cell membrane; membrane permeability and transport; ion exchange and transport; muscle contraction; nerves..neurons; electric organ

NB-03729 **KORNGUTH, STEVEN E., Sch. Med., Univ. Wisconsin, Madison, Wis.**
cerebrospinal fluid; proteins; nerves..demyelination; allergic encephalomyelitis; lysine peptides; immunoelectrophoresis; nervous system disorders; immunofluorescence

NB-03754 **BAKAY, LOUIS, State Univ. New York, Buffalo, N.Y.**
blood-brain barrier; brain disorders; brain edema; ion exchange; radiolabeled potassium; radiolabeled sodium

NB-03756 **TABER, ELIZABETH, Sch. Med., Harvard Univ., Boston, Mass.**
nerves..neurogenesis; brain..brain stem; cell migration; tritium

NB-03777 **LEVI-MONTALCINI, RITA, Sch. Med., Washington Univ., St. Louis, Mo.**
growth factors; nerves; chemical structure; amino acid; reaction sites; nervous system..sympathetic nervous system; enzymes; sympathectomy; immune sera; behavior; proteins; ribonucleic acid; salivary glands

NB-03789 **WEBSTER, HENRY D., Mass. Gen. Hosp., Boston, Mass.**
nervous system disorders; nervous system..peripheral nerves; immunity..autoimmunity; dietary deficiency; phosphines

NB-03816 **CHOW, KAO L., Sch. Med., Stanford Univ., Palo Alto, Cal.**
nerves degeneration..Wallerian degeneration; eye..retinal ganglion; brain lesions; brain..reticular formation; brain..mesencephalon; learning; conditioning; behavior; electroencephalography; cerebral cortex isolation technique; brain..cerebral cortex

NB-03822 **HALL, JAMES L., Col. Med., Ohio State Univ., Columbus, Ohio**
nervous system..autonomic nervous system; phylogeny; electrophysiology

NB-03849 **JACOBS, MYRON S., New York Med. Col., New York, New York**
brain; nervous system..cranial nerves; phylogeny

NB-03859 **WHITE, ROBERT J., Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio**
brain ischemia and hypoxia; perfusion; hypothermia; brain; brain damage; extracorporeal circulation; cerebrovascular disorders; primates..monkeys; nervous system transplantation

NB-03861 **HICKS, SAMUEL P., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
embryology; congenital abnormalities; radiation effects; brain disorders; eye..retina; cell migration; tritium; cell differentiation; eye disorders; conditioning..operant conditioning; feeding behavior; population dynamics, cell; hunger; nervous system; thirst; water--electrolyte balance; visual perception

NB-03877 **RICHARDSON, FREDERICK, Johns Hopkins Hosp., Baltimore, Md.**
brain; blood sugar; carbon dioxide tension; oxygen tension; acid--base equilibrium; blood flow; brain disorders; lead encephalitis; congenital abnormalities; radiolabeled krypton; children; cerebrovascular system

NB-03889 **RIGGS, HELENA E., Philadelphia Gen. Hosp., Philadelphia, Pa.**
autopsy; brain; brain damage; cerebral palsy; infants (human)..newborn; infants (human)..premature infants; mental retardation; pregnancy..childbirth

(contd)

NEUROLOGY (CONTD)

NB-03890 AMADUCCI, LUIGI A., Sch. Med., Univ. Florence, Florence, Italy
nervous system..central nervous system; lipoproteins; nerves..myelin; lipids; phosphatidopeptides; amphetamine; scopolamine; acetylcholine; atropine

NB-03901 SHANKLIN, WILLIAM M., Med. Col. Virginia, Richmond, Va.
neurosecretion; brain..hypothalamus; pituitary gland.. neurohypophysis; ganglion, nervous system..autonomic ganglia; brain..cerebellum; lipofuscin; brain..frontal lobe; brain..cerebral cortex; amaurotic familial idiocy; epinephrine; norepinephrine; adrenal medulla; nervous system..autonomic nervous system; pigments; arteries.. cerebral arteries; nerves..myelin

-03920 KELLY, WILLIAM A., Grad. Sch., Univ. Washington, Seattle, Wash.
nervous system..visceral afferent nerves; brain..cerebral cortex; electrophysiology; gallbladder; nerves..denervation; gallbladder disease

NB-03922 BRAITENBERG, VALENTINO, Sch. Theoretical, Nucl. Physics, Univ. Naples, Naples, Italy
cell components; brain..cerebral cortex; nerves..axons; nerves..dendrites; nerves..synapse; computer analysis; silver impregnation techniques

NB-03942 FELDMAN, SAMUEL M., Col. Med., Yeshiva Univ., New York, N.Y.
brain..hypothalamus; brain..reticular formation; brain.. subcortical structures; arousal; brain lesions; single cell analysis; electrocorticography; electrostimulus; sympathomimetic; parasympathomimetic agents

NB-03943 LENNOX-BUCHTHAL, Margaret, Sch. Med., Univ. Copenhagen, Denmark
brain..visual cortex; color vision; electrophysiology; electrostimulus; nervous system..optic nerve; photostimulus; primates..monkeys

NB-03964 FARMER, THOMAS W., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
familial periodic vertigo and ataxia; family; genetics; photography; electronystagmography; aminoaciduria; cerebrospinal fluid; drugs

NB-03986 FANG, HARRY C.H., Univ. Alabama Med. Cr., Birmingham, Ala.
brain; arteries..arterioles; capillaries; cerebrovascular disorders

NB-03987 ROTHBALLER, ALAN B., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
anesthetics; brain..brain stem; brain..cerebrum; brain.. hypothalamus; brain lesions; brain mapping; drugs; electrostimulus; neuroendocrine systems; pituitary gland.. neurophypophysis; potentials..evoked potentials

NB-03988 LISS, LEOPOLD, Col. Med., Ohio State Univ., Columbus, Ohio
nervous system; brain neoplasms; adults; drugs; poison

NB-03989 NUNNEMACHER, RUDOLPH F., Clark Univ., Worcester, Mass.
nervous system..central nervous system; nervous system.. peripheral nerves; nerves..axons; electron microscopy; brain. optic tracts

NB-03990 KING, ROBERT L., Univ. Florida, Gainesville, Florida
brain..cerebellum; electrophysiology; brain..cerebral cortex; sense organs; primates..squirrel monkeys

NB-03991 DE ROBERTIS, EDUARDO D.P., Sch. Med., Inst. Gen. Anatomy, Univ. Buenos Aires, Buenos Aires, Argentina
nerves..neurons; cell components; nerves..synapse; brain; neurohormones; nerve impulse transmission; norepinephrine; serotonin; substance P, polypeptide; transacylase..choline transacylase; choline esterases; transmethylases; oxidoreductases..amine oxidases; amino acids; aminobutyric acid; glutamates; glutamine

NB-03992 GERGEN, JOHN A., Sch. Med., Wake Forest College, Winston-Salem, N. C.
brain hippocampus; nerve impulse inhibition; brain subcortical structures; electrophysiology; brain mapping; electrostimulus; primates

NB-04000 TOMAN, JAMES E.P., Chicago Med. Sch., Chicago, Ill.
aging; brain..cerebral cortex; cretinism; nerves..dendrites; potentials..evoked potentials; propylthiouracil; radioisotopes..iodine 131; thyroid hormones

NB-04001 BARTOSHUK, ALEXANDER K., Brown Univ., Providence, R.I.
electroencephalography; infant human..newborn; brain.. cerebral cortex; histogenesis; sleep; nervous system disorders; psychological tests; longitudinal study

NB-04012 Van der LOOS, HENDRIK, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
brain..cerebral cortex; nerves..synapse; nerves..axons; nerves..dendrites; instrumentation

NB-04014 MERRITT, H. HOUSTON, Col. Phys., Surg., Columbia Univ., New York, N.Y.
injury..head injury; epilepsy; longitudinal study; cooperative study

NB-04051 REICHLIN, SEYMOUR, Sch. Med., Univ. Rochester, Rochester, N.Y.
thyrotropin; growth hormones; exophthalmogenic hormone; neuroendocrine systems; pituitary gland..median eminence; brain; eye; brain..hypothalamus; electrostimulus; primates ..monkeys; radiolabeled iodine; radiolabeled sulfur; bioassay; temperature; thyroid function

NB-04063 FIELD, RICHARD A., Massachusetts Gen. Hosp., Boston, Mass.
acetates; amino acid; diabetes..alloxan diabetes; glucose; insulin; membrane permeability; nerves; phospholipids; proteins; triglycerides

NB-04064 BERL, SOLL, Col. Phys., Surg., Columbia Univ., New York, N.Y.
cerebral cortex isolation technique; brain; amino acids; glutamates; aspartic acid; glutamine; gamma--amino-butyric acid; brain lesions; epilepsy; convulsions; radiolabeled carbon; 5--hydroxy--6--methyl--4--methoxy--3--pyridylmethanol; strychnine; pentylenetetrazol; age; radiation effects; thyroidectomy..radiothyroidectomy; acid--ammonia ligases..L--glutamate:ammonia ligase (ADP); carbon dioxide fixation

NB-04068 SKULTETY, F. MILES, Sch. Med., State Univ. Iowa, Iowa City, Iowa
anger; brain..appetite satietry center; brain..hypothalamus; brain..mesencephalon; brain..periaqueductal gray matter; brain lesions; brain mapping; vocalization

NB-04081 ROVIT, RICHARD L., Jefferson Med. Col., Philadelphia, Pa.
brain edema; cortisone; therapy; brain lesions; radiolabeled iodine

NB-04082 CARPENTER, MALCOLM B., Col. Phys., Surg., Columbia Univ., New York, N.Y.
brain..basal ganglia; brain..substantia nigra; brain..subthalamic nucleus; brain mapping; primates..Macaca mulatta

NB-04095 REDGATE, EDWARD S., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
ACTH; pituitary gland; brain..brain stem; neuroendocrine systems; spinal cord transection; sympathectomy; pressoreceptors; arteries..carotid sinus; electrocorticography; electrostimulus; hemorrhage

NB-04096 BERGMAN, RONALD A., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
muscle; muscular diseases; nerves..denervation

NB-04119 RUTLEDGE, LESTER T., Sch. Med., Univ. Mich., Ann Arbor, Mich.
interhemispheric transfer; nerve impulse facilitation; nerve impulse inhibition; interhemispheric delayed response; potentials; brain..cerebral cortex; brain lesions; communication theory; primates..monkeys; neurohormones; single cell analysis; brain.. medulla oblongata

NB-04131 LOCKE, SIMEON, Sch. Med., Harvard Univ., Cambridge, Mass.
brain..subcortical structures; brain..thalamocortical tracts; brain disorders; brain mapping; cerebrovascular disorders; congenital abnormalities; primates.. monkeys

NB-04133 WORDEN, FREDERIC G., Sch. Med., Univ. California, Los Angeles, Cal.
brain..rhinencephalon; conditioning; single cell analysis; primates..Macaca nemistrina; behavior; electroencephalography; electrophysiology

NB-04135 OGDEN, THOMAS E., Col. Med., Univ. Utah, Salt Lake City, Utah
brain..thalamic nuclei; brain..thalamocortical tracts; electrostimulus; hemispherectomy; nerve impulse transmission; pentobarbital; potentials..evoked potentials; primates..monkeys; single cell analysis

NB-04136 O'BRIEN, JOHN S., Sch. Med., Univ. Southern California, Los Angeles, Cal.
lipids; brain; age; fractionation; fatty acids; leukodystrophies; nerves..myelin

NB-04161 TORACK, RICHARD M., Med. Col., Cornell Univ., N.Y.C.
nerves..neurons; nerves..neuroglia; blood-brain barrier; phosphatases; oxidases, monoamine oxidase; brain neoplasms; brain edema

NB-04162 CLARK, WILLIAM K., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
acidosis; alkalosis; body fluids; brain; brain edema; hyperosmolarity; hyposmolarity; nerves..neuroglia; stress

NB-04163 MADOW, LEO, Woman's Med. Col. Pennsylvania, Philadelphia, Pa.
angiography; arteries..cerebral arteries; brain damage; diagnostic tests; hypothermia; meningeal hemorrhages; meninges..subdural space; neurosurgery; therapy evaluation

NB-04183 FRENCH, JOHN D., Sch. Med., Univ. California, Los Angeles, Cal.
behavior; body movement; brain..hypothalamus; brain.. limbic system; conflict; electrostimulus; nervous system.. autonomic nervous system

NB-04184 GLASER, EDMUND M., Sch. Med., Univ. Maryland, Baltimore, Md.
audiostimulus; brain..auditory cortex; coding; computer; electrophysiology; single cell analysis

NB-04187 DUGGER, GORDON S., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
brain..hypothalamus; pituitary gland..neurohophysis; homeostasis; neurosecretion; gonadectomy; thyroidectomy; adrenalectomy

NB-04209 HAMLIN, HANNIBAL, Massachusetts Gen. Hosp., Boston, Mass.
anthroöometry; brain..subcortical structures; brain mapping; stereotaxia

NB-04210 BIRZIS, LUCY, Stanford Res. Inst., Menlo Park, Cal.
brain; electrical impedance; nerves,,neurons; blood flow; ion; epinephrine; acetylcholine; centrally-acting drugs; cerebrovascular system; brain ischemia and hypoxia

NB-04225 DODGE, PHILIP R., Massachusetts Gen. Hosp., Boston, Mass.
brain; brain edema; cerebrospinal fluid pressure; convulsions; dehydration (body fluids); hyperosmolarity; mannitol; saline solutions; therapy; water-electrolyte balance

NB-04226 COHEN, JEROME, Sch. Med., Northwestern Univ., Chicago, Ill.
electroencephalography; sensory deprivation; blindness; neuropsychological tests; age; eye disorders; brain lesions

NB-04239 COLEMAN, PAUL D., Sch. Med., Univ. Maryland, Baltimore, Md.
brain..cerebral cortex; genetic strains; intelligence; nerves..dendrites; performance

NB-04251 HEATH, ROBERT G., Sch. Med., Tulane Univ., New Orleans, La.
brain lesions; epilepsy; brain..subcortical structures; irritants; single cell analysis; electrophysiology

NB-04289 RABE, EDWARD F., Boston Floating Hosp., Boston, Mass.
meninges..subdural space; meningeal exudates and effusions; cerebrospinal fluid; blood--brain barrier; infant human; albumins..serum albumins; radiolabeled iodine

NB-04295 SCHNITZLEIN, H. N. Univ. Alabama Med. Cr., Birmingham, Ala.
brain..diencephalon; brain..telencephalon; brain mapping; phylogeny; potentials, evoked potentials

NB-04296 COBEN, LAWRENCE A., Washington Univ., St. Louis, Mo.
blood-cerebrospinal fluid barrier; ion..anion; radiolabeled iodine; meninges..choroid plexus; antimetabolites; hydrocephalus

NB-04297 BUCY, PAUL C., Chicago Wesley Memorial Hosp., Chicago, Ill.
brain..temporal lobe; brain..pulvinar; brain..pons; electrophysiology; brain lesions; primates..Macaca mulatta

NB-04299 FROMM, GERHARD H., Sch. Med., Tulane Univ., New Orleans, La.
electroencephalography; potentials; single cell analysis; brain..cerebral cortex; encephale isole; brain ischemia and hypoxia; ether; pentobarbital; pentylenetetrazol; hyponatremia; convulsions; diphenylhydantoin

NB-04300 STERN, JACK, Southwestern Med. Sch., Univ. Texas, Dallas, Texas
spinal reflex; neurosurgery; Parkinson's disease; neuromuscular disorders; electrostimulus; brain.. globus pallidus; brain..thalamus; brain lesions

NB-04301 EISENMAN, JOSEPH S., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
brain..hypothalamus; thermoregulation; electrophysiology; caloric stimulation; single cell analysis; brain mapping

NB-04314 NELLHAUS, GERHARD, Research and Educational Hosp., Chicago, Ill.
genetic strains; genetics; audiogenic seizure; audiostimulus; cinematography; muscle relaxants..anticonvulsants; electroencephalography; phosphorylases; brain; hydroxylases..phenylalanine--4--hydroxylase; brain lesions; radiolabeled phosphorus; adrenal cortex hormones; phosphates

NB-04323 PETAJAN, JACK H., Sch. Med., Univ. Wisconsin, Madison, Wis.
thermoregulation; brain..hypothalamus; brain lesions; nerves..neurogenesis; behavior; oxygen consumption; cold; habituation

NB-04324 HYDE, JOHN B., Meharry Med. Col., Nashville, Tenn.
brain..cerebral cortex; infants, human; autopsy; menginges ..pia mater; arteries..cerebral arteries; arteries..arterioles; brain ischemia and hypoxia; cerebral cortical atrophy, nodular; collagen

NB-04330 HARKIN, JAMES C., Sch. Med., Tulane Univ., New Orleans, La.
injuries..scars; nerves; regeneration

NB-04335 GURDJIAN, ELISHA S., Wayne State Univ., Detroit, Mich.
hypothermia; brain..cerebral cortex; brain..subcortical structures; sodium; potassium; oxygen tension; carbon dioxide tension; acid-base equilibrium

NB-04336 GURDJIAN, ELISHA S., Col. Med., Wayne State Univ., Detroit, Mich.
hypothermia; extracorporeal circulation; cerebroarterial occlusions and thrombosis; meningeal hemorrhages; meninges..pia mater; cerebrovascular system; brain..cerebral cortex; oxygen tension; carbon dioxide tension; sodium; potassium; injury.. head injury

NB-04367 HOSKIN, FRANCIS C. G., Col. Phys., Surg., Columbia Univ., N.Y.C.
vitamin K3; quinones; glucose; brain; cell-free systems; cemical structure--biological activity; nerves; lipids; phospholipids; electrostimulus; radiolabeled carbon; enzymes inhibitors..anticholinesterase; membrane permeability

NB-04368 ODOM, GUY L., Duke Univ. Med. Cr., Durham, N.C.
arteries..carotid arteries; blood circulation dynamics; cerebral aneurysms

NB-04382 GARCIA-AUSTT, ELIO, Sch. Med., Universidad de la Republica, Hospital del Clinicas, Montevideo, Uruguay
sensory mechanisms; nerve impulse transmission; age; nervous system..afferent nerves; eye..retina; ear..cochlea; electrophysiology; child development; infants, human.. newborn; infants, animals; embryology; phylogeny; ear

NB-04389 FREEMAN, LESLIE W., Indiana Univ. Med. Cr., Indianapolis, Ind.
nerves..axons; nerves degeneration; regeneration; implants; spinal cord transection; nerve impulse transmission; electrophysiology; limbs movement

NB-04395 ROTHMAN, ARTHUR R., Maimonides Hosp., Brooklyn, N.Y.
blood-cerebrospinal fluid barrier; cerebrospinal fluid; myxedema; proteins

NB-04414 MATZKE, HOWARD A., Univ. Kansas Med. Cr., Kansas City, Kans.
nervous system..trigeminal nerve; spinal cord.. trigeminal nucleus, spinal; tetanus toxin; electrostimulus; ribonucleic acid; brain mapping; brain lesions; primates..Macaca filipinensis; spinal cord mapping

NB-04417 GELFAN, SAMUEL, New York Med. Col., New York, N.Y.
electrophysiology; nerves..interneurons; nerves..motor neurons; nervous system disorders; paraplegia; population dynamics (cell); sleep; spinal cord..lumbo-sacral spinal cord

NB-04419 LEES, MARJORIE B., Daartmouth Med. Sch., Hanover, N.H.
brain; electrolytes; gangliosides; ion..cation; leukodystrophy; lipids; lipoproteins; nervous system disorders; proteolipids; sulfolipids

NB-04420 MOSKOWITZ, NORMAN, Daniel Baugh Inst. Anatomy, Jefferson Med. Col., Philadelphia, Pa.
primates; brain..auditory nucleus; brain..auditory tracts; brain..brain stem; phylogeny; brain lesions

NB-04421 TORVIK, Ansgar, Med. Sch., Ullevaal Hosp., Oslo, Norway
histogenesis; nerves..neurons; nerves..neuropil; nerves.. myelination; lipids; radiolabeled carbon; tritium; ribonucleic acid; peripheral nerves lesions; nerves degeneration..axon reaction; age

NB-04456 BORISON, HERBERT L., Dartmouth Med. Sch., Hanover, N.H.
brain..brain stem; vagotomy; pulmonary edema; electrophysiology; brain..respiratory center; carbon dioxide; nervous system..vagus nerve; Veratrum alkaloids; salicylates; hemicholinium; emesis; fever; toxins; brain.. subfornical body; reaction sites; digitalis; morphine; hyperglycemia

NB-04457 BICKFORD REGINALD G., Mayo Assn., Rochester, Minnesota
electroencephalography; computer analysis; epilepsy; brain..subcortical structures; electrical impedance; oxygen tension; brain mapping; potentials..evoked potentials; memory-retention; serotonin; norepinephrine; gamma-aminobutyric acid; glutamine; aspartic acid; electrostimulus

NB-04466 BARROWS, HOWARD S., Sch. Med., Univ. Southern California, Los Angeles, Cal.
nervous system

NB-04472 LEDLEY, ROBERT S., Natl. Biomedical Res. Fdn., Silver Spring, Md.
nerves..dendrites; nerves..synapse; brain..cerebral cortex; photomicrography; computer analysis; instrumentation-methodology; primates..monkeys; picture reading.. processing machine

NB-04483 LINDENBERG, RICHARD, Chief Med. Examiner's Office, Baltimore, Md.
brain lesions; brain disorders; injuries..head injuries; cardiovascular diseases; blood pressure; blood vessels resistance; autopsy

NB-04493 KOENIG, HAROLD, Veterans Admin. Res. Hosp., Chicago, Ill.
spinal cord lesions; 5--fluoroorotic acid; ribonucleic acid; nerves..neurons; nerves..neuroglia; pyrimidine analogs; antimetabolites; nucleic acids; brain lesions; brain..cerebral cortex; 5--fluorouridine

NB-04494 COLLINS, GEORGE H., Col. Med., Univ. Florida, Gainesville, Fla.
dietary deficiency; thiamine; nerves..myelin; antimetabolites; ethanol; nervous system..central nervous system; nerves degeneration..axon reaction; age

NB-04510 ANDY, ORLANDO J., Univ. Mississippi Med. Cr., Jackson, Miss.
brain..limbic system; brain..septum pellucidum; phylogeny

NB-04512 SWEET, WILLIAM H., Massachusetts Gen. Hosp., Boston, Mass.
blood--cerebrospinal fluid barrier; meninges..choroid plexus; blood--brain barrier; cerebroarterial occlusions extracranial; brain ischemia and hypoxia; cell death; brain neoplasms; radiolabeled carbon; cholesterol; radiolabeled fluorine; diagnostic tests

NB-04532 MATZKE, HOWARD A., Univ. Kansas Med. Cr., Kansas City, Kansas
brain; primates; phylogeny

NB-04549 SELLINGER, OTTO Z., Sch. Med., Tulane Univ., New Orleans, La.
acid-ammonia ligases..L-glutamate:ammonia ligase (ADP); brain..cerebral cortex; convulsions; chemical structure--biological activity

NB-04550 KANDEL, ERIC R., Harvard Med. Sch., Massachusetts Mental Hlth. Cr., Boston, Mass.
brain..cerebral pyramidal cells; brain..hippocampus; brain hypothalamus; conditioning; electrophysiology; epilepsy; habituation; nerves..synapse; nerve impulse transmission; nervous system; neuroendocrine systems; single cell analysis

(contd)

LISTING OF GENERAL RESEARCH AREAS

NEUROLOGY (CONTD)

NB-04561 GIACOBINI, EZIO, Karolinska Inst., Stockholm, Sweden
nerves..neurons; nerves..neuroglia; tissue respiration; single cell analysis; enzymes; enzyme substrate; NAD; NADP; choline esterases; nucleic acids; antimetabolites; transacylases..choline transacylase; choline esterase.. acetylcholinesterase; ganglion, nervous system..sympathetic ganglion; ion exchange and transport; Krebs cycle; glycolysis

NB-04564 SCHOOLMAN, ARNOLD, Univ. Kansas Med. Cr., Kansas City, Kansas
arteries..carotid arteries; blood vessels vasomotion; brain..cerebellum; brain lesions; carbon dioxide tension; diaphragm; electrostimulus; oxygen tension; potentials.. evoked potentials; respiration

NB-04568 FORD, DONALD H., Downstate Med. Cr., State Univ. New York, New York, N.Y.
adrenal cortex hormones; brain; estradiol; instrumentation-methodology; membrane permeability; nerves..neurons; progesterone; radioautography; radiolabeled carbon; radiolabeled iodine; single cell analysis; testosterone; thyroxine; triiodothyronine; tritium

NB-04576 BENDER, MORRIS B., Mount Sinai Hosp., New York, N.Y.
arousal; eye movement; reaction time; muscle tone; muscle..extraocular muscles; nervous system disorders; d--amphetamine; amobarbital; visual perception

NB-04582 ALBIN, MAURICE S., Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
hypothermia; therapy evaluation; spinal cord; trauma; paraplegia; perfusion; meninges..subarachnoid space; meninges..dura mater; neural recruitment; primates.. monkeys

NB-04592 SNIDER, RAY S., Grad. Sch. Liberal Arts, Med., Univ. Rochester, Rochester, N.Y.
brain..cerebellum; brain..cerebral cortex; brain..thalamic nuclei; potentials..action potentials; electroencephalography

NB-04596 SNIDER, RAY S., Univ. Rochester, Rochester, N.Y.
brain..cerebellum; nervous system..autonomic nervous system; potentials; blood pressure; intestinal motility; heart function; urinary bladder; kidney circulation; pupillography

NB-04597 SUTIN, JEROME, Sch. Med., Yale Univ., New Haven, Conn.
brain..hypothalamus; brain..thalamus; electrostimulus; potentials..evoked potentials; neural recruitment; nerve impulse transmission; brain..thalamocortical tracts

NB-04600 WINKLER, GERALD F., Massachusetts Gen. Hosp., Boston, Mass.
tissue culture; nerves..demyelination; nerves..myelin; adjuvants..Freund's adjuvant; immunity..cross immunity; immunology..antigens; immune sera; passive sensitization; cell differentiation; blood cells..lymphocytes; glucose

NB-04603 RISS, WALTER, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
brain..amygdaloid nucleus; brain..hippocampus; brain.. limbic system; brain..telencephalon; brain lesions; brain mapping; nervous system..afferent nerves; nervous system..efferent nerves; phylogeny

NB-04607 ZEMAN, WOLFGANG, Indiana Univ. Med. Cr., Indianapolis, Ind.
brain..cerebrum; enzymes; leukodystrophy; lipids; lipoidal diseases; nerves..demyelination

NB-04609 KONIGSMARK, BRUCE W., Harvard Med. Sch., Boston, Mass.
blood cells..leukocytes; brain; cell age; cell differentiation; cell division..mitosis; cell migration; genetics; infants (animal)..newborn; macrophages; nerves.. microglia; radiolabeled carbon; tritium

NB-04610 DENNY-BROWN, DEREK, Boston City Hosp., Boston, Mass.
brain..cerebellum; brain..basal ganglia; brain..mesencephalon; decerebration; nerves..motor neurons; muscle stretch reflex; tetanus, nonclostridial; brain lesions; neuromuscular disorders; potentials; primates..monkeys

NB-04616 BRAY, PATRICK F., Col. Med., Univ. Utah, Salt Lake City, Utah
multiple sclerosis; hepatolenticular degeneration; blood proteins..serum proteins; cerebrospinal fluid; proteins; fractionation; transferrin; globulins; glycoproteins; immunology; chemical structure--biological activity; allergic encephalomyelitis; nerves..demyelination; cell culture; chorea..Huntington's chorea

NB-04631 OWENS, GUY, Health Research, Inc., Buffalo, N. Y.
perfusion; brain..ventricles; hypothermia; instrumentation-methodology; chemotherapy; blood-brain barrier; cerebrospinal fluid pressure; brain edema; electrostimulus; stimulants..analeptics; nitrogen mustards; leurocristine; methotrexate; anesthetics; antibiotics; primates, monkeys

NB-04634 KUYPERS, HENRICUS G. J. M., Sch. Med., Western Reserve Univ., Cleveland, Ohio
nervous system, pyramidal tracts; nervous system subcorticospinal tract; spinal cord mapping; brain mapping; primates, monkeys

NB-04637 KENNADY, JOHN C., Los Angeles County Harbor Gen. Hosp., Torrance, Cal.
lavage (nonvisodialysis); meninges..subarachnoid space; meningeal hemorrhages; radiolabeled; blood; therapy

NB-04651 ROCHA-MIRANDA, CARLOS E., Univ. de Brazil, Rio de Janeiro, Brazil
brain..corpus striatum; muscle stretch reflex; behavior; electrophysiology; brain lesions; decortication; conditioning; brain; publications..atlas; stereotaxia

NB-04653 KOCH, ALAN R., Sch. Med., Univ. Washington, Seattle, Wash.
brain..blood-brain barrier; ion exchange and transport; meninges..choroid plexus; cerebrospinal fluid; radiolabeled sodium; radiolabeled potassium; radiolabeled chlorine

NB-04654 KIRSCHBAUM, WALTER R., Sch. Med., Northwestern Univ., Chicago, Ill.
publications..monograph; pseudosclerosis, spastic; neuropathology

NB-04655 HARDY, JAMES D., John B. Pierce Fdn. Lab., New Haven, Conn.
thermoregulation; brain..hypothalamus; electrophysiology; single cell analysis; temperature; environment; fever; respiration; primates..monkeys; serotonin; pyrogens; catecholamines

NB-04656 KOENIG, EDWARD, State Univ. New York, Buffalo, N.Y.
ribonucleic acid; nerves..axons; nerves..neurons; gangliocytes; nucleotides; tritium; eye..retinal bipolar neurons; brain..geniculate body lateral

NB-04677 MOORE, ROBERT Y., Univ. Chicago, Chicago, Ill.
brain..colliculus inferior; brain..colliculus superior; brain..thalamus; brain..thalamocortical tracts; brain mapping; brain..auditory tracts; brain..visual pathways; primates, monkeys; physiology

NB-04680 Van Den NOORT, STANLEY, Sch. Med., Western Reserve Univ., Cleveland, Ohio
nucleotides; blood..plasma; brain; cerebrovascular system; blood--brain barrier

NB-04722 BARRON, KEVIN D., Veterans Admin. Hosp., Hines, Ill.
nervous system..central nervous system; nerves..axons; nerves degeneration..axon reaction; enzymes; injury.. surgical wounds; electrostimulus; phosphatases; cell components..mitochondria; cell components..lysosomes; cell components..endoplasmic reticulum; spinal cord.. trigeminal nucleus (spinal)

NB-04726 CLEMENTE, CARMINE D., Sch. Med., Univ. California, Los Angeles, Cal.
potentials..evoked potentials; potentials..slow potentials; brain..hypoglossal nucleus; brain..medulla oblongata; antidromic stimulation; nerve impulse transmission; single cell analysis; electroencephalography

NB-04732 TALEISNIK, SAMUEL, Inst. de Invest. Med., Mercedes y Martin Ferreyra, Cordoba, Argentina
brain..thalamocortical tracts; brain..limbic system; nervous system..central nervous system; neurohormones; gonadotropins; LH; electrostimulus; potentials.. evoked potentials; nerve impulse transmission; drugs; secretory mechanisms

NB-04744 BROOKHART, JOHN M., Sch. Med., Univ. Oregon, Portland, Ore.
posture; muscle tension; nervous system..central nervous system; muscle..skeletal muscle; joints..knee; brain lesions; proprioceptors; body movement; limbs movement; instrumentation

NB-04745 OLDENDORF, WILLIAM H., Veterans Admin. Cr., Los Angeles, Cal.
instrumentation--methodology; radiation counters; blood--brain barrier; brain neoplasms; brain disorders; diagnostic tests; radiolabeled iodine; radioisotopes; radiolabeled mercury; hepatolenticular degeneration; radiolabeled copper; radiolabeled selenium; selenomethionine

NB-04754 ANDY, ORLANDO J., Univ. Mississippi Med. Cr., Jackson, Miss.
behavior; blood pressure; brain..limbic system; brain.. septum pellucidum; brain mapping; conditioning.. avoidance; electrophysiology; nerve impulse transmission; primates..monkeys

NB-04760 EAGER, ROBERT P., Sch. Med., Yale Univ., New Haven, Conn.
brain..cerebellum; brain..cortical nuclei; brain lesions; brain mapping; nerves..interneurons; nervous system.. efferent nerves; primates..monkeys

NB-04763 HIGGINS, DON C., Sch. Med., Yale Univ., New Haven, Conn.
muscle stretch receptors; muscle stretch reflex; muscle tension; nerve impulse transmission; brain.. brain stem; spinal cord; nerves..interneurons; electrophysiology; electromyography

NB-04764 ANDERSEN, PER, Sch. Med., Univ. Oslo, Oslo, Norway
brain..hippocampus; electrodes..microelectrodes; electrostimulus; nerve impulse inhibition; nerve impulse initiation; nerves..dendrites; nerves..neurons; nerves.. synapse; neurohormones; potentials..evoked potentials; potentials..slow potentials

NB-04766 CURRY, HIRAM B., Med. Col. South Carolina, Charleston, S.C.
blood flow; cerebrovascular system; brain..cerebral cortex; oxygen tension; carbon dioxide tension; single cell analysis; potentials; cerebrovascular disorders; blood pressure; radiolabeled krypton

NB-04769 CORSON, SAMUEL A., Ohio State Univ. Hlth. Cr., Columbus, Ohio
conditioning; electrolytes; emotional reactions; endocrine glands; isolation; kidney circulation; kidney function; meprobamate; nervous system; neuroses; phentolamine; sympatholytic agents; vasopressin

NB-04779 **WILLIS, WILLIAM D., Jr., Southwestern Med. Sch., Univ. Texas, Dallas, Texas**
anesthetics; antidromic stimulation; decerebration; muscle stretch reflex; nerves..motor neurons; nerves.. synapse; nervous system..afferent nerves; potentials.. evoked potentials; spinal cord

NB-04784 **VAN TIENHOVEN, ARI, Col. Agr., Cornell Univ., Ithaca, N.Y.**
audiostimulus; acetylcholine; barbiturates; brain..hypothalamus; brain lesions; electroencephalography; epinephrine; parasympatholytic agents; photostimulus; pituitary gland; potentials..evoked potentials; secretory mechanisms; sympathomimetic agents; brain..cerebral cortex; brain..basal ganglia

NB-04785 **SCHAIN, RICHARD J., Col. Med., Nebraska Psychiatric Inst., Omaha, Nebr.**
acetazolamide; aldosterone; calcium; carbon dioxide; centrally acting drugs; cerebrospinal fluid; enzymes inhibitors..anticholinesterase; hydrocortisone; hydrogen-ion concentration; ion..cation; mental retardation; pentylenetetrazol; potassium; sodium; vasopressin

NB-04787 **HORN, GABRIEL, Faculty Biology, Univ. Cambridge, Cambridge, England**
brain..cerebral cortex; nerves..neurons; nerve impulse transmission; single cell analysis; potentials.. evoked potentials; communication theory; attention; computer analysis; perception

NB-04792 **SIDMAN, RICHARD L., Harvard Med. Sch., Boston, Mass.**
brain; cell migration; deoxyribonucleic acid; lipids; nerves..neurogenesis; nerves..neuroglia; nerves..neurons; nervous system disorders; organ culture; porphyrins; radiolabeled carbon; tritium

NB-04795 **ALBE-FESSARD, DENISE, Univ. Paris, Paris, France**
anesthesia; behavior; brain..basal ganglia; brain.. motor cortex; brain lesions; conditioning; discrimination; electrostimulus; nerve impulse inhibition; Parkinson's disease; potentials..membrane potentials; primates.. monkeys; psychological tests; sensory mechanisms; tremor

NB-04801 **WETZEL, NICHOLAS, Med. Sch., Northwestern Univ., Chicago, Ill.**
brain..thalamus; brain lesions; brain mapping; nerves.. interneurons; Parkinson's disease

NB-04808 **CHAMBERS, WILBERT F., Col. Med., Univ. Vermont, Burlington, Vt.**
adrenal cortex hormones; brain..lemniscus medial; brain..reticular formation; brain..somatosensory cortex; brain..thalamus; computer analysis; endocrine glands; nerve impulse transmission; nervous system..peripheral nerves; pentobarbital; potentials..evoked potentials; sex hormones

NB-04813 **DOMER, FLOYD R., Sch. Med., Tulane Univ., New Orleans, La.**
ion exchange and transport; blood--cerebrospinal fluid barrier; potassium; antimetabolites; meninges..choroid plexus; radiolabeled sodium; radiolabeled potassium; anesthetics; insulin

NB-04835 **YOUNG, RICHARD L., The Inst. Living, Hartford, Conn.**
amino acid; ammonia; amphetamine; barbiturates; brain; enzymes inhibitors; enzymes substrate; glutamic acids

NB-04838 **ADAMS, JOHN E., Univ. California Med. Cr., San Francisco, Cal.**
brain; hypothermia; spasm; drugs; primates..monkeys; cerebrovascular system; cerebroarterial occlusions extracranial

NB-04850 **PEELER, DUDLEY F., Jr., Univ. Mississippi Med. Cr., Jackson, Miss.**
age; behavior; brain..limbic system; brain..subcortical structures; electrophysiology; electrostimulus; infants, animals; nerves..interneurons

NB-04864 **MORTIMER, ELIZABETH M., Sch. Phys. Educ., Univ. Wisconsin, Madison, Wis.**
nervous system..pyramidal tract; nervous system..central nervous system; nerves..motor neurons; nerve impulse transmission..efferent impulses; muscle contraction; muscle stretch receptors; tetanus, nonclostridial; potentials..action potentials; single cell analysis;

NB-04868 **JURKO, MARION F., Univ. Mississippi Med. Cr., Jackson, Miss.**
brain..mesencephalon; brain..subcortical structures; brain.. thalamus; brain lesions; electrophysiology; nerve impulse transmission..efferent impulses; nerves..motor neurons; nervous system..peripheral nerves; neuromuscular disorders; primates..monkeys

NB-04876 **REIS, DONALD J., Cornell Univ. Med. Col., New York, N.Y.**
electrostimulus; nervous system..vagus nerve; nervous system..efferent nerves; bradycardia; pressoreceptors; brain..prosencephalon; brain.. hypothalamus; blood vessels vasomotion; brain lesions; brain mapping; nerve impulse transmission; primates.. squirrel monkeys

NB-04887 **GORBMAN, AUBREY, Grad. Sch., Univ. Washington, Seattle, Wash.**
potentials; brain..diencephalon; thyroid hormones; sex hormones; behavior; poikilotherms

NB-04889 **BRODY, MICHAEL J., State Univ. Iowa, Iowa City, Iowa**
blood vessels vasomotion; brain..medulla oblongata; cevadine; chemoreceptors; cyanides; electrophysiology; electrostimulus; epinephrine; nerves..interneurons; nervous system..afferent nerves; norepinephrine; peripheral vascular resistance; pressoreceptors; pulse pressure waves; reflex; respiration

NB-04897 **WALL, PATRICK D., Sch. Sci., Massachusetts Inst. Technology, Cambridge, Mass.**
discrimination; nervous system..cutaneous sensory nerves; pain; potentials..action potentials; sensory mechanisms; skin; somatic reflexes; spinal cord; temperature

NB-04905 **KERR, FREDERICK W.L., Mayo Assn., Rochester, Minn.**
ganglion, nervous system..Gasserian ganglion; brain.. somesthetic sensory area; nervous system..trigeminal nerve; nerves..neurons; mapping; trigeminal neuralgia; electrodes..microelectrodes; skin; face; primates.. monkeys

NB-04908 **CHAIKOFF, ISAEL I., Col. Letters, Sci., Univ. California, Berkeley, Cal.**
age; blood..plasma; brain; cholesterol esters; cortisone; enzymes; esterases; hepatectomy; hydrocortisone; lipoproteins..plasma lipoproteins; metabolites; radiolabeled carbon

NB-04909 **POPE, RICHARD S., Sch. Dent., Univ. Oregon, Portland, Ore.**
parabiosis; extracorporeal circulation..cross circulation; arteries..abdominal arteries; blood circulation dynamics; instrumentation--methodology; muscular dystrophy

NB-04912 **RICHINS, CALVIN A., Sch. Med., St. Louis Univ., St. Louis, Mo.**
cytology; electrostimulus; nervous system..autonomic nervous system; pancreas; parotid gland; secretory mechanisms; submandibular gland

NB-04913 **WEGENER, JONATHAN G., Goshen Col., Goshen, Ind.**
brain..auditory cortex; brain lesions; conditioning; hearing ..auditory discrimination; hearing..binaural hearing; primates..monkeys

NB-04922 **HESS, JOSEPH W., Sch. Med., Wayne State Univ., Detroit, Mich.**
myasthenia gravis; muscle..skeletal muscle; muscle.. intercostal muscles; neuromuscular blocking agents; immunology..autoantibodies; immune sera; gamma globulin; acetylcholine; potentials; neuromuscular junction; potassium; binding

NB-04926 **KIRGIS, HOMER D., Sch. Med., Tulane Univ., New Orleans, La.**
arteries..carotid arteries; arteries..Circle of Willis; blood flow; brain..cerebrum; brain ischemia and hypoxia; cerebroarterial occlusions extracranial; cerebrovascular disorders

NB-04928 **POSNER, JEROME B., Cornell Univ. Med. Col., N.Y.C.**
acid-base equilibrium; blood-brain barrier; blood-cerebrospinal fluid barrier; blood flow; brain..cerebrum; cerebrospinal fluid; homeostasis; metabolic diseases; pulmonary ventilation

NB-04943 **WALKER, LEON B., Jr., Sch. Med., Tulane Univ., New Orleans, La.**
electromyography; implants; limbs movement; muscle stretch reflex; muscle tension; neuromuscular disorders; tendons; tensile strength

NB-04945 **PAINE, RICHMOND S., Res. Fdn. Children's Hosp., Washington, D.C.**
anesthesia; audiostimulus; behavior; brain ischemia and hypoxia; cerebral palsy; cerebrospinal fluid; drugs; infants (human)..newborn; longitudinal study; mental retardation; photostimulus; potentials..evoked potentials; pregnancy..perinatal; serology; somesthesis

NB-04950 **TEAS, DONALD C., Eye and Ear Hosp., Pittsburgh, Pa.**
behavior; computer; electrophysiology; instrumentation-methodology; laboratory facilities

NB-04954 **FRENCH, LYLE A., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
brain..cerebral cortex; psychological tests; brain lesions; neurosurgery; electroencephalography; behavior; electrophysiology; prediction; longitudinal study

NB-04955 **SCHLAG, JEAN D., Univ. California Med. Cr., Los Angeles, Cal.**
nervous system..pyramidal tracts; brain..cerebral cortex; nerve impulse transmission; nerve impulse initiation; electrostimulus; brain lesions; potentials.. evoked potentials; implants; primates..monkeys; sensory mechanisms

NB-04956 **WEITZNER, STANLEY W., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.**
acid-base equilibrium; anesthetics; blood-cerebrospinal fluid barrier; cerebrospinal fluid; cerebrospinal fluid pressure; hypercapnia; intracranial pressure; meninges.. subarachnoid space; primates..baboons

NB-04981 **SCHMIDT, KURT F., Sch. Med., Yale Univ., New Haven, Conn.**
brain; acetylcholine; anesthetics; thiopental sodium; bromochlorotrifluoroethane; ether; electrophysiology

NB-04985 **McCULLOCH, WARREN S., Massachusetts Inst. Tech., Cambridge, Mass.**
brain..reticular formation; communication theory; mathematical models

NB-04988 **NASTUK, WILLIAM L., Col. Phys., Surg., Columbia Univ., N.Y.C.**
myasthenia gravis; immunology..autoantibodies; actomyosin; thymus; globulins..serum globulins; reaction sites; neuromuscular transmission; neuromuscular blocking agents..depolarizing agents; membrane permeability and transport; potentials.. action potentials; cholinergic receptor protein; acetylcholine; quaternary ammonium compounds

NB-04997 **CHASE, ROBERT A., Sch. Med., Stanford Univ., Palo Alto, Calif.**
regeneration; nervous system..peripheral nerves; nerves.. axons; transparent chamber technique; tissue; steroids; enzymes; neoplasms

(contd)

NEUROLOGY (CONTD)

NB-04999 KUHLENBECK, HARTWIG, Woman's Med. Col., Philadelphia, Pa.
nervous system..central nervous system; phylogeny

NB-05002 MOORE, ROBERT Y., Univ. Chicago, Chicago, Ill.
brain..hypothalamus; brain..mesencephalon; brain lesions; brain mapping; nerves degeneration..axon reaction; nerve impulse transmission; chemoreceptors; catecholamines; serotonin; norepinephrine

NB-05017 FIESCHI, CESARE, Sch. Med., Univ. Genoa, Genoa, Italy
cerebrovascular system; instrumentation-methodology; brain..subcortical structures; blood flow; hydrogen; gas tensions; arterial infusions; implants

NB-05024 HOCHWALD, GERALD M., Sch. Med., New York Univ., New York, N.Y.
cerebrospinal fluid; blood proteins..serum proteins; blood--cerebrospinal fluid barrier; chemical structure--biological activity; primates..monkeys; radiolabeled iodine; radiolabeled carbon; molecular weight; nervous system..central nervous system; 2,4--dinitrophenol; dextran; globulins

NB-05028 MOORE, MATTHEW T., Grad. Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
blood vessels; brain; aging; mental disorders; brain disorders; staining; cerebrovascular disorders

NB-05035 FREEMAN, WALTER J., Col. Letters, Sci., Univ. California, Berkeley, Cal.
brain..cerebral cortex; brain..olfactory bulb; potentials..evoked potentials; nerves..neurons; implants; electrostimulus; biomathematics; computer analysis

NB-05036 HUTTENLOCHER, PETER R., Massachusetts Gen. Hosp., Boston, Mass.
brain..cerebral cortex; brain..subcortical structures; nerves..neurons; infants, animals..newborn; potentials..evoked potentials; age; electrostimulus; nerve impulse transmission; nerve impulse inhibition; arousal; implants; single cell analysis

NB-05038 PETERSON, R. PRICE, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
electron microscopy; electrophysiology; proprioceptors; muscle stretch receptors; nerves..dendrites; nerve impulse transmission; muscle contraction

NB-05041 ANDERSON, PAUL J., Mount Sinai Hosp., N.Y.C.
cholinergic receptors; electron microscopy; enzymes inhibitors..anticholinesterase; muscle..skeletal muscle; nerves..motor neurons; nerves..synapse; neuromuscular blocking agents..depolarizing agents; neuromuscular disorders; neuromuscular junction; neuromuscular transmission

NB-05048 SWETT, JOHN E., Good Samaritan Hosp., Portland, Ore.
Purkinje cells, nervous system; brain..cerebellum; reflex; muscle stretch receptors; nervous system..afferent nerves; potentials..evoked potentials; threshold; single cell analysis

NB-05057 MATURANA, HUMBERTO R., Escuela de Med., Univ. Chile, Santiago, Chile
laboratory facilities; electron microscopy; nervous system; eye..retinal bipolar neurons; nerves..neurogenesis; cell types

NB-05058 SUNG, JOO HO, Sch. Med., Univ. Minnesota, Minneapolis, Minn.
radiation effects; x-rays; head; brain; blood-brain barrier; amino acid; gamma aminobutyric acid; glutamates; glutamine; behavior; radiolabeled carbon

NB-05061 LIBET, BENJAMIN, Mt. Zion Hospital and Med. Cr., San Francisco, Cal.
somesthesis; brain..somatosensory cortex; brain..subcortical structures; consciousness; direct cortical response; potentials..evoked potentials; brain lesions; brain mapping; electrostimulus

NB-05069 VOTAW, CHARLES L., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
brain..cerebral cortex; electrophysiology; potentials..evoked potentials; electrostimulus; brain mapping

NB-05070 DIAMOND, SIDNEY P., Mt. Sinai Hosp., N.Y.C.
somatic reflexes; eye..retina; visual stimulus; potentials..evoked potentials; drugs; consciousness; age; infants, human..newborn; nervous system disorders; eye disorders; ear disorders

NB-05071 VAN DER LOOS, HENDRIK, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
brain..cerebral cortex; brain..brain stem; nerves..dendrites; nerves..axons; primates..monkeys; instrumentation--methodology; computer analysis; nerves..synapses

NB-05079 SHENKIN, HENRY A., Episcopal Hosp., Philadelphia, Pa.
body water; water--electrolyte balance; injury..head injury; intracranial pressure; cerebral aneurysms; brain disorders; surgery..postoperative; radiolabeled iodine; tritium; neurosurgery

NB-05081 COLLINS, WILLIAM F., Med. Col. Virginia, Richmond, Va.
nervous system..peripheral nerves; nervous system..somatic afferent nerves; sensory mechanisms; potentials..action potentials; anesthetics; analgesics; nervous system..central nervous system

NB-05093 WOOD, JOE G., Univ. Arkansas Med. Cr., Little Rock, Ark.
adrenal medulla; adrenergic receptors; binding; brain..brain stem; catecholamines; cytochemistry; dopamine; enzymes; ganglion, nervous system..autonomic ganglia; insulin; nerves..neurons; neurohormones; norepinephrine; oxidases..monamine oxidase; reserpine; serotonin; sympathomimetic agents

NB-05100 HOFF, EBBE C., Med. Col. Virginia, Richmond, Va.
kidney..renal tubules; kidney..glomerulus; kidney function; brain..cerebrum; electrostimulus; brain mapping; sympathectomy; blood flow; nervous system..autonomic nervous system; p-aminohippurate; sodium; primates..monkeys

NB-05119 WILLAIMSON, THOMAS G., Sch. Eng., Applied Sci., Univ. Virginia, Charlottesville, Va.
neutron activation analysis, unspecified; trace elements; heavy metals; brain; neuromuscular disorders; diagnostic tests

NB-05131 GREENBERG, ROBERT E., Sch. Med., Stanford Univ., Palo Alto, Cal.
nerve growth promoting protein, sympathetic; chemical structure--biological activity; sympathectomy..immunosympathectomy; nervous system..sympathetic nervous system; immune sera; cell differentiation; ribonucleic acid; catecholamines; tritium

NB-05132 ZERVAS, NICHOLAS T., Jefferson Medical Col., Philadelphia, Pa.
brain..dentate nucleus; brain..thalamic nuclei; brain lesions; tremor; nervous system..afferent nerves; nervous system..efferent nerves; electrostimulus; implants; nerve impulse transmission; primates..monkeys

NB-05152 FISHER, C. MILLER, Massachusetts Gen. Hosp., Boston, Mass.
cerebroarterial occlusions and thrombosis; hypertension (systemic); atherosclerosis; infarction; cerebrovascular disorders; therapy evaluation; neurosurgery; diuresis; blood coagulation, anticoagulants; calcification; arteries..vertebral artery; arteries..carotid arteries; pseudosclerosis..spastic

NB-05159 SHERMAN, WILLIAM R., Sch. Med., Washington Univ., St. Louis, Mo.
chemical structure; cerebrosides; bioassay; carbohydrases..glycosidases; sulfatases..arylsulfatases; stereochemistry; sulfolipids; Gaucher's disease; leukodystrophy

NB-05161 MILLICHAP, J. GORDON, Children's Mem. Hosp., Chicago, Ill.
muscle relaxants..anticonvulsants; convulsions; chemotherapy; electroencephalography; enzymes inhibitors..carbonic anhydrase inhibitors; ketones; diet; ACTH; infants, animals; infants, human; children

NB-05172 BARLOW, CHARLES F., Children's Hosp. Med. Cr., Boston, Mass.
blood--brain barrier; radiolabeled carbon; radiolabeled sulfur; sulfates; antipyrine; 2--pyridine aldoxime methiodide; binding; brain; convulsions; allergic encephalomyelitis; radiolabeled iodine; diphenylhydantoin; proteins

NB-05175 BONDAREFF, WILLIAM, Northwestern Univ. Med. Sch., Chicago, Ill.
brain..cerebral cortex; electron microscopy; capillaries; nerves..neurons; nerves..neuroglia; brain edema

NB-05178 MYERS, RONALD E., Spring Grove State Hosp., Baltimore, Md.
brain..commissure (cerebral anterior); brain..corpus callosum; brain..parietal lobe; brain lesions; brain mapping; interhemispheric transfer; learning; primates..chimpanzees; primates..monkeys; touch

NB-05193 POLLEY, MICHAEL, Sch. Med., Univ. New Mexico, Albuquerque, N.Mex.
blood--cerebrospinal fluid barrier; ion exchange and transport; thiocyanates; p--aminophippurate; iodine; perfusion; brain edema; radiolabeled carbon; radiolabeled iodine; cyanides; 2,4--dinitrophenol

NB-05199 STUART, DOUGLAS G., Sch. Med., Univ. California, Los Angeles, Cal.
brain..hypothalamus; brain..limbic system; brain..somatosensory cortex; nerves..motor neurons; body temperature; thermoreception; skin; potentials..evoked potentials

NB-05218 SCALIA, FRANK, Res. Fdn., State Univ. New York, Albany, N.Y.
brain..hippocampus; brain..olfactory bulb; nerves degeneration; phylogeny; brain lesions

NB-05229 LIN, SPING, Sch. Med., Univ. Minnesota, Minneapolis, Minn.
nerve impulse transmission; nerves..neurons; muscle stretch receptors; single cell analysis; tissue respiration; glucose; amino acid; nucleosides; adenosine triphosphate

NB-05230 FOLTZ, FLOYD M., Sch. Med., Univ. South Dakota, Vermillion, S.D.
brain..cerebellum; brain mapping; nervous system..efferent nerves; behavior; phylogeny; brain lesions; primates..lemurs

NB-05231 SCHAIN, RICHARD J., Col. Med., Univ. Nebraska, Omaha, Nebr.
radiolabeled carbon; amino acid; ion exchange and transport; brain..cerebral ventricles; ionic strength; drugs; blood-brain barrier

NB-05233 WELLS, JOSEPH, Sch. Med., Univ. Maryland, Baltimore, Md.
brain..thalamic nuclei; brain..thalamocortical tracts; brain mapping; potentials..evoked potentials; consciousness; primates

NB-05234 LEVITT, MELVIN, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
nervous system..central nervous system; brain.. cerebral cortex; brain..sensory cortex; touch; kinesthesis; spinal cord lesions; spinal cord.. dorsal column; spinal cord..lateral column; single cell analysis; primates..monkeys

NB-05236 HILLARP, NILS-AKE, Karolinska Inst., Stockholm, Sweden
amines; chemical structure--biological activity; nervous system..central nervous system; oxidoreductases ..monamine oxidase; nerve impulse transmission; nerves ..neurons

NB-05239 NOVIN, DONALD, Grad. Sch., Univ. California, Los Angeles, Cal.
osmoreceptors; brain mapping; nerves..neurons; brain.. hypothalamus; brain..regulatory centers; single cell analysis; water-electrolyte balance; temperature; taste; thirst

NB-05248 RIEHL, JEAN-LOUIS R., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
electroencephalography; computer analysis; instrumentation; brain lesions; brain..cerebral cortex; sleep; muscle relaxants..anticonvulsants; tranquilizers; enzyme inhibitors..monoamine oxidase inhibitors

NB-05250 HAMEL, EARL G., Jr., Univ. Alabama Med. Cr., Birmingham, Ala.
brain; nerves degeneration; nerves..synapse; potentials..evoked potentials; cell migration; tritium; brain mapping

NB-05254 LINDSLEY, DAVID F., Stanford Univ. Med. Cr., Stanford, Cal.
brain..reticular formation; brain..diencephalon; brain lesions; potentials..evoked potentials; nerves..neurons; nerve impulse facilitation; amphetamine; alertness--vigilance; behavior; visual stimulus; audiostimulus; visual perception

NB-05257 BECKER, NORWIN HOWARD, Montefiore Hosp., Bronx, N.Y.
cell components..organelles; brain..cerebral cortex; meninges..choroid plexus; nerves..dendrites; proclorperazine; phosphatases; enzyme inhibitors..amine oxidase inhibitors; convulsions; infant animals..newborn

NB-05264 SEGUNDO, JOSE P., Sch. Med., Univ. California, Los Angeles, Cal.
potentials..spike potentials; nerves..neurons; computer analysis; nerve impulse transmission; electrostimulus; ganglion, nervous system; brain..reticular formation; brain..vestibular nucleus

NB-05267 FLANIGAN, NORBERT J., Col. Liberal Arts, St. Norbert Col., West de Pere, Wis.
spinal cord; nervous system..afferent nerves; nerves.. motor neurons; nerves..innervation; peripheral nerves lesions; proprioceptors; behavior; mammal

NB-05283 DeMYER, WILLIAM, Indiana Univ. Med. Cr., Indianapolis, Ind.
nervous system..pyramidal tracts; brain..olfactory bulb; brain..optic tracts; nerves..neurogenesis; nerves..axons; nerves degeneration..transneuronal degeneration; embryonic induction; fetus; brain..commissures, cerebral (unspecified); pregnancy..Cesarean section

NB-05292 GOLDRING, SIDNEY, Univ. Pittsburgh, Pittsburgh, Pa.
brain..cerebral cortex; direct cortical response; brain ischemia and hypoxia; Parkinson's disease; brain mapping; neurosurgery; laboratory facilities; cerebrovascular surgery; potentials..evoked potentials; electrocorticography

NB-05294 MARTIN, ARTHUR W., Col. Arts, Sci., Univ. Washington, Seattle, Wash.
muscles; diaphragm; nerves, denervation; nerves, motor neurons; nervous system..vagus nerve; nervous system.. phrenic nerve; nerve impulse transmission; muscle stretch reflex; hormones; ribonucleic acid; neurohormones

NB-05295 DOW, ROBERT S., Good Samaritan Hosp., Portland, Ore.
genetics; laboratory animals; age; cerebellar hypoplasia

NB-05315 FOX, CLEMENT A., Sch. Med., Marquette Univ., Milwaukee, Wis.
electron microscopy; nerves..synapse; nerves..neurons; Purkinje cells, nervous system; brain..basal ganglia; brain..olfactory bulb; brain lesions; primates.. Macaca mulatta; primates..squirrel monkeys

NB-05316 SZEKELY, EMERY G., Sch. Med., Temple Univ., Philadelphia, Pa.
brain..reticular formation; brain..subcortical structures; brain lesions; tetany; tremor

NB-05317 OFFNER, FRANKLIN F., Technological Inst., Northwestern Univ., Evanston, Illinois
electroencephalography; direct cortical response; potentials..evoked potentials; brain disorders; computer analysis; diagnostic tests

NB-05319 BRADLEY, WILLIAM, Univ. Minnesota, Minneapolis, Minn.
electrodes..microelectrodes; brain..cerebral cortex; growth; nerve impulse transmission; electrophysiology; infant animals..newborn; hypoxia; hypoglycemia; irritants

NB-05320 MANNING, ROBERT T., Univ. Kansas Med. Cr., Kansas City, Kans.
ammonia intoxication; aminobutyric acid; brain; dosage; amino acids; enzymes; enzyme substrate; glucose; electrolytes

NB-05357 WATSON, C. WESLEY, New England Cr. Hosp., Boston, Mass.
electroencephalography; epilepsy; brain lesions; brain.. cerebral cortex; brain..subcortical structures; hyperventilation, passive; convulsants; infant animals; implants

NB-05362 BREAZILE, JAMES E., Col. Vet. Med., Oklahoma State Univ., Stillwater, Okla.
brain mapping; brain..cerebral cortex; direct cortical response; autonomic reflexes; chemoreceptors; presoreceptors; electrostimulus; anesthesia

NB-05368 LEHRER, GERARD M., Mt. Sinai Hosp., New York, N.Y.
nerves..neurons; nerves..neuroglia; ganglion, nervous system..spinal ganglion; brain..medulla oblongata; enzymes; high energy compounds; stress; single cell analysis

NB-05381 GASTEIGER, EDGAR L., Jr., N.Y. State Vet. Col., Cornell Univ., Ithaca, N.Y.
computer analysis; electrophysiology; instrumentation--methodology; brain..cerebral cortex; nervous system.. autonomic nervous system; ionizing radiation; drugs; arousal; mental processes

NB-05392 BREAZILE, JAMES E., Col. Vet. Med., Oklahoma State Univ., Stillwater, Okla.
brain..motor cortex; brain mapping; nervous system.. pyramidal tracts; electrostimulus; nerve impulse transmission

NB-05408 LARRAMENDI, L.M.H., Illinois Col. Med., Chicago, Ill.
electron microscopy; brain..cerebellum; nerves.. neurogenesis; nerves..synapses; nerves..neuroglia; nerve endings; cell components..Golgi apparatus; growth; infant animals..newborn

NB-05411 CROSS, BARRY A., Univ. Cambridge, Cambridge, England
nerves..neurons; brain..prosencephalon; potentials.. action potentials; hormones; gonadectomy; lactation; age; sex difference; reaction sites

NB-05412 HEISEY, S. RICHARD, Harvard Med. Sch., Boston, Mass.
cerebrospinal fluid; phylogeny; ions; fetus; infant animals..newborn; brain..ventricles; perfusion; autonomic reflexes; organic compounds; radiolabeled carbon; radio abeled iodine; primates.. monkeys; blood--cerebrospinal fluid barrier

NB-05424 SWANSON, PHILLIP D., Sch. Med., Univ. Washington, Seattle, Wash.
ion exchange and transport; ions..cation; brain.. cerebral cortex; cell components..microsomes; phosphotransferases..ATP; creatine phosphotransferase; phosphatases..adenosine triphosphatase; hypoxia; potassium; sodium; electrostimulus; ouabain; radiolabeled carbon

NB-05429 GROSSMAN, ROBERT G., Southwestern Med. Sch., Univ. Texas, Dallas, Texas
electrodes..microelectrodes; brain..substantia nigra; brain..brain stem; nerves..neurons; nerves..synaptic vesicles; antidromic stimulation; brain lesions; potentials..evoked potentials; parasympatholytic agents

NB-05432 SUNDSTEN, JOHN W., Sch. Med., Univ. Washington, Seattle, Wash.
thermoregulation; brain..prosencephalon; brain mapping; pituitary gland; thyroid function; protein--bound iodine; radiolabeled iodine; primates..Macaca mulatta

NB-05436 SHOWERS, MARY J.C., Hahnemann Med. Col. and Hosp., Philadelphia, Pa.
brain; brain lesions; spinal cord; nervous system.. efferent nerves; nerves..myelin; nerves..neurofibrils; potentials..evoked potentials; electrostimulus; implants; taxonomy

NB-05437 BUCHWALD, JENNIFER S., Sch. Med., Univ. California, Los Angeles, Cal.
nervous system..central nervous system; nerves..neurons; learning; potential..spike potential; conditioning; computer analysis

NB-05441 YASE, YOSHIRO, Wakayama Med. Col., Wakayama City, Japan
amyotrophic lateral sclerosis; geographical sites.. Japan; epidemiology; genetics; environment; cooperative study

NB-05444 WALKER, SHEPPARD M., Sch. Med., Univ. Louisville, Louisville, Ky.
temperature; potassium; potentials; curare; muscles.. skeletal muscle; electrostimulus; tetany; acetylcholine; nerve endings; neuromuscular transmission; acclimatization

NB-05445 MULLAN, JOHN F., Univ. Chicago Hospitals, Chicago, Ill.
cerebral aneurysm; thrombosis; spinal cord lesions; pain; instrumentation--methodology; neurosurgery; radioisotopes, strontium 90; radioisotopes, yttrium 90

NB-05454 MAGNES, JONATHAN, Hadassah Med. Sch., Hebrew Univ., Jerusalem, Israel
sleep; arousal; brain..cerebral cortex; brain.. reticular formation; perfusion; extracorporeal circulation..cross circulation; neurohormones; nervous system..peripheral nerves; electrostimulus

NB-05455 THOMAS, PRICE E., Kirksville Col. Osteopathy and Surgery, Kirksville, Mo.
nervous system..afferent nerves; nervous system.. spinal nerves; nerves..motor neurons; nerves.. interneurons; spinal cord..dorsal root; learning; nucleic acids; molecules..macromolecules; nerve impulse transmission; tetany; potentials..evoked potentials

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NEUROLOGY (CONTD)

NB-05462 CUNNINGHAM, ALASTAIR, W.B., Massachusetts Inst. Technology, Cambridge, Mass.
brain..telencephalon..cell types..adults..embryo.. potentials..single cell analysis..drugs..tissue culture

NB-05466 GUMNIT, ROBERT J., Univ. Minnesota Neurological Service, Ancker Hosp., St. Paul, Minn.
brain lesions; epilepsy; brain..cerebral cortex; penicillin; muscle relaxants..anticonvulsants; electrical fields

NB-05467 SUN, HUN, Drexel Inst. Technology, Philadelphia, Pa.
nerves..motor neurons; nervous system..central nervous system; neuromuscular transmission; hand; vision; psychophysics; mathematical models; adults

NB-05494 WHITLOCK, DAVID G., Res. Fdn. State Univ. New York, Syracuse, N.Y.
ganglion, nervous system..spinal ganglion; nervous system..afferent nerves; nerves..neurons; peripheral nerves lesions; ribonucleic acid; phylogency; staining; primates

NB-05495 WILLENKIN, ROBERT L., Sch. Med., Yale Univ., New Haven, Conn.
anesthesia; brain..brain stem; electrical impedance; brain mapping; bromochlorotrifluoroethane; 2, 2--dichloro--1, 1--difluoroethyl methyl ether; ethers

NB-05501 TUTTLE, RICHARD S., Masonic Med. Res. Lab., Utica, New York
blood vessels vasomotion; ganglion, nervous system.. sympathetic ganglia; nerves..neurons; brain..medulla oblogata; potentials..evoked potentials; electrostimulus; blood flow; adrenergic receptors; atropine; sympatholytic agents

NB-05502 RODNIGHT, RICHARD, Inst. Psychiatry, Maudsley Hosp., London, England
phosphoproteins; brain..cerebral cortex; cell components..microsomes; nerves..neurons; electrostimulus; ion exchange and transport; ions..cation; adenosine triphosphate; peptides; radiolabeled phosphorus

NB-05509 KOENIG, HAROLD, VA Res. Hosp., Chicago, Ill.
brain; cell components..lysosomes; cell components.. mitochondria; nerves..myelin; nerve endings; binding; phospholipids; glycolipids; hydrolases; gamma--aminobutyric acid; N--glycosylhydrolases.. NAD nucleosidase; proteolipids

NB-05518 VAN BERGEN, F.H., Univ. Minnesota, Minneapolis, Minn.
ions..cation; anesthesia; calcium; magnesium; osmotic pressure; spinal cord..dorsal root; nerves.. motor neurons; drugs; reaction sites; potentials.. evoked potentials

NB-05538 LIFSHITZ, KENNETH, Rockland State Hosp., Orangeburg, N.Y.
electroencephalography; electrical impedance; brain.. cerebral cortex; arteries..carotid arteries; blood circulation dynamics; biological models; computer simulation; heart function; cerebroarterial occlusions and thrombosis; instrumentation--methodology

NB-05539 ROSS, LEONARD L., Col. Med., Cornell Univ., New York, N.Y.
electron microscopy, serotonin; reaction sites; nerves..neurons; tritium; radiolabeled carbon; enzyme inhibitors..monoamine oxidase inhibitors; chlorpromazine; reserpine; phenobarbital

NB-05548 PULETTI, FLAVIO, University Hosp., Madison, Wis.
potentials..action potentials; nerves..neurons; brain..somatosensory cortex; spinal cord..dorsal root; nervous system..optic nerve; spinal cord mapping; single cell analysis; nerve impulse transmission; photostimulus; neurosurgery; primates.. squirrel monkeys

NB-05566 GERTNER, SHELDON B., Seton Hall Col. Med., Jersey City, N.J.
ganglion, nervous system..superior cervical ganglion; nerves..neurons; end--organs; histamine; binding; nerve impulse transmission; electrophysiology; enzyme inhibitors; perfusion

NB-05567 SINDERG, RONALD M., Central Wisconsin Colony and Training Sch., Madison, Wis.
brain mapping; brain..somatosensory cortex; brain.. thalamus; nerves..interneurons; potentials.. evoked potentials; stimulus; primates..squirrel monkeys

NB-05583 REYNOLDS, ROBERT W., Sch. Letters, Sci., Univ. California, Santa Barbara, Cal.
brain..hypothalamus; brain lesions; cytolysis; nerves..neurons; potentials..evoked potentials; single cell analysis

NB-05589 KIMMEL, DONALD L., Chicago Med. Sch., Chicago, Ill.
electron microscopy; nervous system..peripheral nerves; ganglion, nervous system..spinal ganglion; ganglion, nervous system..sympathetic ganglia; nerves..neurons; nerve endings; nerves degeneration..axon reaction; regeneration; collagen

NB-05591 HARTMAN, J. FRANCIS, Presbyterian-St. Luke's Hosp., Chicago, Ill.
cooperative study; electron microscopy; brain.. cerebral cortex; brain edema; blood--brain barrier; tritium; glucose; glutamates; aspartic acid; temperature; hypoxia; hydrogen--ion concentration; oxygen inhalation therapy..hyperbaric oxygen therapy

NB-05592 BARBATO, IRIS, Sonoma State Hosp., Eldridge, Cal.
hypoglycemia; insulin; shock; ribonucleic acid; brain; vestibular nucleus; brain..cerebellum; brain..corpus callosum; nerves..neurons; nerves..neuroglia; single cell analysis; cell components..cell nucleus; cell components..microsomes; glucose

NB-05593 JOHNS, T.R., Sch. Med., Univ. Virginia, Charlottesville, Va.
electrodes..microelectrodes; potentials..membrane potentials; muscles..skeletal muscle; neuromuscular transmission; myasthenia gravis; age; neuromuscular blocking agents; neuromuscular disorders

NB-05594 KREMZNER, LEON T., New Jersey Bu. Res. in Neurology and Psychiatry, Princeton, N.J.
histamine; nervous system..central nervous system; mast cells; decarboxylases..histidine decarboxylase; decarboxylases..DOPA decarboxylase; radiolabeled carbon

NB-05618 POSER, CHARLES M., Kansas City Gen. Hosp., Med. Cr., Kansas City, Mo.
amyotrophic lateral sclerosis; arginine; neuromuscular disorders; macroglobulins; genetics; radiolabeled carbon; fasting

NB-05634 McKINNEY, WILLIAM M., Bowman Gray Sch. Med., Winston-Salem, N.C.
ultrasonic echoencephalography; cerebrovascular disorders; intracranial pressure; arteries..cerebral arteries; brain; blood pressure; respiration; diagnostic tests

NB-05638 HAYWARD, JAMES N., Univ. California Med. Cr., Los Angeles, Cal.
body fluids; homeostasis; brain..hypothalamus; brain lesions; brain mapping; pituitary gland.. neurohypophysis; body temperature; diurnal variation; vasopressin; kidney function

NB-05642 SCHULTZ, ROBERT L., Sch. Med., Loma Linda Univ., Loma Linda, Cal.
nervous system..central nervous system; instrumentation--methodology; electron microscopy; nerves..neurons; nerves..neuroglia

NB-05648 SPENCER, WILLIAM A., Sch. Med., New York Univ., New York, N.Y.
nerves..neurons; brain..olfactory bulb; brain..cerebral cortex; nerves..synapse; spinal reflex; electrophysiology; electrodes..microelectrodes; brain lesions

NB-05654 SCHEINBERG, PERITZ, Sch. Med., Univ. Miami, Miami, Fla.
rheoencephalography; electrical impedance; brain.. cerebral cortex; blood flow; blood collateral circulation; cerebrospinal fluid; perfusion; drugs; radiolabeled krypton; radiolabeled iodine; endarterectomy; arteries; gas tensions; biomathematics; cerebrovascular disorders; primates..monkeys

NB-05656 ROBERTS, THEODORE S., Col. Med., Univ. Utah, Salt Lake City, Utah
brain..pineal body; meninges..arachnoid; veins.. venous sinuses, intracranial; blood flow; intracranial pressure; homeostasis; electrostimulus; primates.. monkeys

NB-05665 YATES, ROBERT D., Univ. Texas Med. Br., Galveston, Tex.
electron microscopy; carotid body; cell types; cell components..organelles; cell components..microsomes; nerves..neurons; nerve endings; adrenal medulla; blood vessels; tissue respiration; carbon dioxide tension

NB-05666 EYZAGUIRRE, CARLOS, Col. Med., Univ. Utah, Salt Lake City, Utah
carotid body; nerves..neurons; potentials..membrane potentials; single cell analysis; perfusion; electrostimulus; hypoxia; hypercapnia; catecholamines; potassium; ions

NB-05668 ROTH, LLOYD J., Univ. Chicago, Chicago, Ill.
blood--brain barrier; brain damage; stereoisomers; stimulants; convulsions; hypoxia; carbon dioxide; reaction sites; radiolabeled sulfur; radiolabeled carbon; brain; darenthin; amphetamine; acetazolamide analogs; pregnancy..placental transfer

NB-05675 COE, JOHN E., Univ. Texas Med. Br., Galveston, Tex.
bone..cervical vertebrae; spinal cord transection; spinal cord lesions..spinal root lesions; potentials.. evoked potentials; therapy evaluation; neurosurgery; hyperbaric oxygenation; cerebrospinal fluid pressure; primates..monkeys

NB-05679 SALAFSKY, BERNARD P., Sch. Med., Univ. Illinois, Chicago, Ill.
muscles..skeletal muscle; nerves..motor neurons; nerves..denervation; nervous system..peripheral nerves; muscle contraction; potentials; metabolites; hypothermia; implants

NB-05685 KRUGER, LAWRENCE, Cr. Hlth. Sci., Univ. California, Los Angeles, Cal.
brain .thalamus; brain..brain stem; nervous system..somatic afferent nerves; spinal cord.. dorsal column; nerves..neurons; nerves degeneration..axon reaction; brain lesions; brain mapping; electrophysiology; pain; phylogeny; primates..monkeys; reptiles; rodents

NB-05688 ROSE, AUGUSTUS S., Cr. Hlth. Sci., Univ. of California, Los Angeles, Cal.
amyotropic lateral sclerosis; spinal cord; nerves.. motor neurons; nerves..astrocytes; nerves..oligodendroglia; ganglion, nervous system..spinal ganglion; tissue culture; enzymes; 6--aminonicotinamide; poisoning; primates..monkeys

NB-05693 RIKER, WILLIAM K., Woman's Med. Col. Pennsylvania, Philadelphia, Pa.
ganglion, nervous system..sympathetic ganglia; reaction sites; nerve impulse transmission; nerves.. synaptic vesicles; single cell analysis; potentials.. spike potential; tetraethyl ammonium chloride

NB-05695 MORUZZI, GUISEPPE, Sch. Med., Univ. Pisa, Pisa, Italy
brain..somatosensory cortex; sleep; nerve impulse transmission; electrostimulus; potentials..evoked potentials; nerves..neuron

NB-05713 BIGNALL, KEITH F., Sch. Med., Univ. Rochester, Rochester, N.Y.
cerebral cortex isolation technique; brain.. somatosensory cortex; brain mapping; thalamectomy; spreading depression; epilepsy; nervous system.. afferent nerves; nervous system..efferent nerves; electrophysiology; primates..monkeys

NB-05715 EIDELBERG, EDUARDO, St. Joseph's Hosp., Phoenix, Ariz.
brain..cerebral cortex; brain damage; brain neoplasms; somesthesis; sensory mechanisms; alertness--vigilance; potentials..evoked potentials; conditioning..operant conditioning; primates..monkeys

NB-05722 MAYMAN, CHAIM I., McLean Hosp., Belmont, Mass.
hypoglycemia; brain..cerebral cortex; brain..subcortical structures; enzymes; insulin; pyridine nucleotides; blood--brain barrier; glucose; Embden--Meyerhof pathway; phospholipids; perfusion

NB-05734 EASTON, DEXTER M., Grad. Sch., Florida State Univ., Tallahassee, Fla.
nerve impulse transmission; potentials..action potentials; membrane permeability and transport; potassium; sodium; ions; nervous system..olfactory nerve; molecular structure

NB-05738 LEDBETTER, J.R., Jacksonville Hosps. Educational Programs, Jacksonville, Fla.
nervous system..peripheral nerves; nerves..motor neurons; nerves..innervation; regeneration; nerve impulse transmission; electrostimulus; microsurgery and microdissection; muscles.. skeletal muscle; neurosurgery

NB-05741 BERGMANN, LOUIS L., New York Univ. Med. Col., New York, N.Y.
brain; neurosurgery; Parkinson's disease; brain lesions; cold

NB-05750 FULLER, JOHN L., Jackson Lab., Bar Harbor, Me.
conferences..international meetings; neurology; animal facilities; genetic strains; mutation; genetics; congenital abnormalities; embryology; brain; neuromuscular disorders; ear disorders; nervous system..peripheral nerves; phenylketonuria

NB-05752 HESS, ARTHUR, Col. Med., Univ. Utah, Salt Lake City, Utah
electron microscopy; nerve endings; nerves.. synapses; reaction sites; choline esterase; nerves degeneration..transneuronal degeneration; neuromuscular junction; ganglion, nervous system..ciliary ganglion; ganglion, nervous system..sympathetic ganglia; carotid body

NB-05769 OJEMANN, ROBERT G., Massachusetts Gen. Hosp., Boston, Mass.
brain..cerebral cortex; blood flow; diagnostic tests; cerebrovascular disorders; radioisotopes..technetium 99; arteries..carotid arteries; computer analysis

NB-05770 SVAETICHIN, GUNNAR, Inst. Venezolano de Investigaciones Cientificas, Caracas, Venezuela
nerves..neuroglia; nerves..neurons; nerve impulse transmission; eye retina; potentials..membrane potentials; neurotropic drugs; psychotropic drugs; electrophysiology; light adaptation

NB-05771 SLAGEL, DONALD E., Univ. Kentucky Med. Cr., Lexington, Ky.
nerves..neuroglia; tissue culture; cell types; astrocytoma; cell components..organelles; ribonucleic acid; cytotoxicity

NB-05774 CURTIS, DAVID R., John Curtin Sch. Med. Res., Australian National Univ., Canberra, Australia
nerve impulse transmission; nerves..synaptic vesicles; nerves..neurons; nervous system..central nervous system; electrophysiology; neurotropic drugs

NB-05781 RHINES, RUTH, Univ. Chicago, Chicago, Ill.
ganglion, nervous system; nerves..axons; tissue culture; ultraviolet rays; radiation effects; growth; pinocytosis

NB-05783 NEUMANN, META A., Saint Elizabeths Hosp., Washington, D.C.
brain..basal ganglia; brain..reticular formation; nervous system disorders; nerves degeneration

NB-05786 KITCHELL, RALPH L., Col. Vet. Med., Kansas State Univ., Manhattan, Kans.
neuromuscular system; muscles..respiratory muscles; muscles..myofibrils; cell types; nerves..motor neurons; nerve endings; nervous system..afferent nerves; potentials.. action potentials; muscle contraction; carbon dioxide tension; apnea

NB-05811 DYCK, PETER J., Mayo Assn., Rochester, Minn.
peroneal muscular atrophy; progressive hypertrophic interstitial neuropathy; Friedreich's ataxia; Werdnig--Hoffman paralysis; neuromuscular disorders; disease classification; nerve impulse transmission; nervous system..peripheral nerves; nerves..motor neurons; age; genetics

NB-05827 EISENSTEIN, EDWARD M., Col. Arts, Sci., State Univ. New York, Stony Brook, N.Y.
learning; memory--retention; nerves..interneurons; ganglion, nervous system; insects; conditioning.. avoidance; single cell analysis; electrostimulus; drugs; strychnine; amphetamine; chlorpromazine; scopolamine; 8--azaguanine; 1,3,3--tri--cyano, 2--aminopropene

NB-05838 DOW, ROBERT S., Good Samaritan Hosp., Portland, Ore.
brain..cerebellum; publications..monograph; anatomy

NB-05850 NATHANIEL, EDWARD J.H., Med. Col. Georgia, Augusta, Ga.
spinal cord..dorsal root; spinal cord lesions; nerves degeneration; regeneration

NB-05855 STORY, JIM L., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
brain..hypothalmus; brain mapping; thyroid function; thyrotropin; pituitary gland; implants; radiolabeled iodine; electrostimulus; protein--bound iodine

NB-05856 ABOOD, LEO G., Sch. Med., Univ. Rochester, Rochester, N.Y.
adenosine triphosphate; high energy compounds; electrophysiology; nerve impulse transmission; molecules ..macromolecules; mucopolysaccharides; phospholipids; ions..cation; ion exchange and transport; calcium; cell components..mitochondria; brain; nervous system.. peripheral nerves; potentials..action potentials; single cell analysis; phosphorylation; enzymes

NB-05859 ROSS, GILBERT S., State Univ. New York, Syracuse, N.Y.
brain lesions; brain..thalamus; brain..mesencephalon; nervous system..trigeminal nerve; electrodes; implants; pain tolerance; behavior; drugs; morphine; chlorpromazine; pentobarbital; procaine hydrochloride; D--deoxyephedrine; primates..monkeys

NB-05865 COLE, MONROE, Bowman Gray Sch. Med., Winston-Salem, N.C.
brain..brachium conjunctivum; brain lesions; brain mapping; nerves..neurofibrils; nerves degeneration; primates..monkeys; silver impregnation techniques

NB-05892 DAVIES, RICHARD O., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
brain..medulla oblongata; nerves..neurons; hyperpnea; electrostimulus; potentials..spike potentials; carbon dioxide

NB-05905 KLEEMAN, CHARLES R., Cedars--Sinai Med. Cr., Los Angeles, Cal.
blood--brain barrier; blood--cerebrospinal fluid barrier; growth; venous infusions; perfusion; electrolytes; acidosis; uremia; methanol poisoning; hypoxia; jaundice..obstructive jaundice; toxicology; radiolabeled sodium; radiolabeled sulfur; radiolabeled carbon; nerves..neuroglia

NB-05907 GUILLERY, RAINER W., Sch. Med., Univ. Wisconsin, Madison, Wis.
spinal cord..dorsal column; brain..geniculate body lateral; nerves..synapses; nerves..neurogenesis; nerves degeneration; primates..monkeys

NB-05934 STEVENS, CHARLES F., Sch. Med., Univ. Washington, Seattle, Wash.
nervous system..central nervous system; nerves.. motor neurons; potentials..spike potential; single cell analysis; biomathematics; computer simulation

NB-05937 TEITELBAUM, PHILIP, Col. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.
brain..hypothalamus; brain lesions; reaction sites; feeding behavior; drinking behavior; obesity; emotional reactions; behavior; drugs

NB-05949 BARNES, CHARLES D., Indiana Univ., Bloomington, Ind.
spinal cord; nerves..motor neurons; cold; nerve impulse inhibition; spinal shock; antidromic stimulation; potentials..action potentials; single cell analysis; spinal reflex; primates.. monkeys

NB-05956 SMITH, EDWARD E., Univ. Mississippi Med. Cr., Jackson, Miss.
nervous system..central nervous system; nerves.. motor neurons; proprioceptors; muscle contraction; limbs movement; sensory mechanisms; electrostimulus; primates..monkeys

NB-05957 CASTRO, OLGA, Fac. Med., Univ. Nacional Mayor de San Marcos, Lima, Peru
brain..cerebral cortex; nerves..neurons; glycogen; atmospheric pressure; acclimatization

NB-05963 GUTTMAN, RITA, Brooklyn Col., Brooklyn, N.Y.
temperature; nerve impulse transmission; potentials.. membrane potentials; membrane permeability and transport; nerves..axons

NB-05975 WALTZ, ARTHUR G., Mayo Fdn., Rochester, Minn.
arteries..cerebral arteries; blood flow; arterial occlusions; brain ischemia and hypoxia; cerebro-arterial occlusions and thrombosis; radioisotopes.. krypton 85; viscosity; blood pressure; microcirculation; brain..cerebral cortex

NB-05976 LENDE, RICHARD A., Albany Med. Col., Albany, N.Y.
brain..cerebral cortex; brain lesions; brain mapping; nerves..motor neurons; nervous system..somatic afferent nerves; electrostimulus; sensory mechanisms; neurosurgery; epilepsy; phylogeny; primates..tree shrews

(contd)

LISTING OF GENERAL RESEARCH AREAS

NEUROLOGY (CONTD)

NB-05997 WOLFGRAM, FREDERICK J., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
lipoproteins; proteins; nerves..myelin; nervous system..peripheral nerves; spinal cord; allergic encephalomyelitis; leukodystrophies; immunology.. antigens; reaction sites; chemical structure

NB-06015 DE BALBIAN VERSTER, F., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
brain..cerebral cortex; brain..subcortical structures; brain lesions; epilepsy; enzymes

NB-06053 MICHAELSON, I. ARTHUR, Col. Med., Univ. Cincinnati, Cincinnati, Ohio
brain..hypothalamus; nerves..neurons; nerves.. synaptic vesicles; nerve endings; cell components.. mitochondria; cell components..microsomes; tritium; histamine; acetylcholine; catecholamines; serotonin; reserpine; morphine; desmethylimipramine; sympathomimetic agents; binding

NB-06062 LENDE, RICHARD A., Albany Med. Col., Albany, N.Y.
brain mapping; brain..sensory cortex; brain..motor cortex; electrophysiology

NB-06115 MOREST, DONALD K., Harvard Med. Sch., Boston, Mass.
brain..thalamus; brain mapping; nerves..interneurons; nerves..axons; nerves..dendrites; nervous system.. afferent nerves; nerves degeneration; sensory mechanisms; perception

NB-06239 FRIEDE, REINHARD L., Western Reserve Univ., Cleveland, Ohio
oxidoreductases..NADPH2 diaphorase; oxidoreductases.. NADH2 diaphorase; choline esterases; oxidoreductases.. succinate dehydrogenase; oxidoreductases..cytochrome oxidases; enzymes; brain; brain mapping; nervous system disorders; nerves..neuroglia

NEUROLOGY AND BLINDNESS PROGRAM-PROJECT COMMITTEE

HD-00719 BIRCH, HERBERT G., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
infant human; research programs; child development; behavior; brain damage; mental retardation; genetics; metabolic diseases; sensory mechanisms; cognition; emotional reactions; socioenvironment; deviant behavior

NB-02808 FRENCH, JOHN D., Univ. California, Los Angeles, Cal.
research programs; neurophysiology; electroencephalography; brain disorders; electrophysiology

NB-03346 McDOWELL, FLETCHER, The New York Hosp., New York, N.Y.
cerebrovascular disorders; research programs

NB-03356 KATZMAN, ROBERT, Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
research programs; nervous system; nervous system disorders; metabolic diseases; nerves..myelin; gangliosides; neoplasms; immunology; sleep; sensory mechanisms; psychophysiology; electrophysiology; lipoidal diseases; senile dementia; brain edema; clinical research center; potentials..evoked potentials

NB-03358 LINDSAY, JOHN R., Sch. Med., Univ. Chicago, Chicago, Ill.
age; amblyopia; audiometry; brain disorders; cancer chemotherapy; cataract; ear..vestibular apparatus; eye circulatory disorders; eye neoplasms; glaucoma; head neoplasms; immunology; inner ear disorders; myasthenia gravis; neck neoplasms; radiation therapy; radioisotopes; research programs; retinopathy; uveitis

NB-03359 MERRITT, H. HOUSTON, Col. Phys., Surg., Columbia Univ., N.Y.C.
nervous system disorders; research programs

NB-03360 FORSTER, FRANCIS M., University Hosp., Madison, Wis.
research programs; epilepsy; audiogenic seizure; brain..cerebral cortex; genetics; family; gamma--aminobutyric acid; sulfoximine methionine; radiolabeled carbon; conditioning; drugs; neurosurgery; brain lesions

NB-03364 BAKER, A.B., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
atherosclerosis; blood circulation dynamics; brain ischemia and hypoxia; cerebrovascular disorders; congenital heart disease; heart diseases; polygraphy; research programs

NB-03564 MEYER, JOHN S., Sch. Med., Wayne State Univ., Detroit, Mich.
angiography; binding; blood coagulation..anticoagulants; blood flow; brain; calcium; cerebroarterial occlusions and thrombosis; cerebrovascular disorders; EDTA; lipids; neurology; research programs; therapy

NB-03798 WEVER, ERNEST G., Princeton Univ., Princeton, N.J.
hearing; ear..cochlea; muscle..ear muscles; nervous system..auditory nerve; brain..auditory cortex; research programs

NB-03856 HIRSCH, IRA J., Central Inst. Deaf, St. Louis, Mo.
computer; computer analysis; hearing; psychophysics; deafness; speech; psychophysiology; electrophysiology; conditioning; nervous system..auditory nerve; aging; hearing tests; children; education; perception; time; cognition; research programs

NB-04053 WARD, ARTHUR A., Jr., Grad. Sch., Univ. Washington, Seattle, Wash.
epilepsy; muscle relaxants..anticonvulsants; nerves..neurons; neuroanatomy; neuropharmacology; neurophysiology; research programs; stress

NB-04257 CAMPBELL, JAMES B., New York Univ. Med. Cr., N.Y.C.
pain; dyskinesia; neurosurgery; stereotaxia; radioisotopes..yttrium 90; instrumentation-methodology; pneumoencephalography; urinary bladder; nerves.. innervation; congenital abnormalities; paraplegia; injury..wound healing; regeneration; micropore filters; growth factors; hypothermia; perfusion; therapy; nervous system disorders; electrostimulus; research programs

NB-04470 EYZAGUIRRE, C.E., Col. Med., Univ. Utah, Salt Lake City, Utah
research programs; nervous system..peripheral nerves; nerves..synapse; nerves..dendrites; nerves..motor neurons; ganglion, nervous system..ciliary ganglion; carotid body; chemoreceptors; sense organs; nerve impulse transmission; nerve impulse initiation; electrodes..microelectrodes; electrical conductance

NB-04513 O'LEARY, JAMES L., Sch. Med., Washington Univ., St. Louis, Mo.
research programs; neurophysiology; neurosurgery; potentials..evoked potentials; epilepsy; pain; hypothermia; cerebrovascular disorders; hydrocephalus; anesthesia; Friedreich's ataxia; genetics..chromosomes

NB-04613 SHY, GEORGE M., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
research programs; neuromuscular disorders; cytochemistry; neurophysiology; electrophysiology; pharmacology; brain..cerebral cortex; brain..subcortical structures; proteins; immunology; children; genetics

NB-04683 EVANS, JOSEPH P., Univ. Chicago Hospitals, Chicago, Ill.
blood flow; brain, cerebral cortex; brain damage; brain edema; cerebrovascular system; cortisone; injury..head injury; nitrogen; pinocytosis; research programs; therapy evaluation; urea; water-electrolyte balance

NB-04968 DeVOE, ARTHUR G., Col. Phys. Surg., Columbia Univ., N.Y.C.
research programs; eye, cornea; keratoplasty; corneal edema; endothelium; endothelium permeability; prosthesis; transplantation; therapy evaluation; oxygen consumption; immunology, antigens; transplantation rejection; regeneration; deoxyribonucleic acid; viruses..herpes simplex virus; viruses.. adenoviruses; aldosterone; dextran; digitalis; PVP; mucopolysaccharides; radiation effects; tritium; radiolabeled iodine; eye disorders

NB-05184 MERRITT, H. HOUSTON, Col. Phys., Surg., Columbia Univ., N.Y.C.
brain..basal ganglia; brain..substantia nigra; catecholamines; cooperative study; diagnostic tests; dopamine; genetics; information exchange; melanin; neuromuscular disorders; norepinephrine; Parkinson's disease; primates.. monkeys; research programs; serotonin; therapy evaluation; training; epidemiology

NB-05219 SCHARRER, ERNST A., Albert Einstein Col. Med., N.Y.C.
research programs; neurosecretion; nerves, neurons; nerves..axons; phylogeny; secretory mechanisms; endocrine glands; seminal vesicles; hormones; cell types; enzymes; intestines; mucous membrane; adipose tissue; cell components..organelles; cell components..mitochondria; nerve impulse transmission; surface properties; oxidative phosphorylation; optical density; osmotic pressure; colchicine; mast cells; deoxyribonucleic acid; growth hormones

NB-05221 BENDER, MORRIS B., Mount Sinai Hosp., New York, N.Y.
research programs; somesthesis; brain lesions; communication disorders; nystagmus; brain..vestibular nucleus; brain..brain stem; electrostimulus; spatial preception; hearing..auditory discrimination; color vision; potentials..evoked potentials; implants; pain; brain neoplasms

NB-05489 MacQUEEN, JOHN C., Sch. Med., State Univ. Iowa, Iowa City, Iowa
research programs; infant human; children; mental retardation; neuromuscular disorders; brain damage; epilepsy; congenital abnormalities; oral--facial anomalies; genetics..chromosomes translocations; psychological tests; learning; brain..cerebral cortex; meningeal exudates and effusions; blood cells.. leukocytes; cell culture; nerves..myelination; nerve impulse transmission; maternal--fetal teratogenic agents; audiostimulus; radiolabeled chromium

NURSING RESEARCH

CH-00091 DODGE, JOAN S., Grad. Sch. Business, Pub. Admin., Cornell Univ., Ithaca, N.Y.
perception; hospitals patients; cognition; physician--patient relationship; communication; attitude; interviews; psychometrics; coding; computer analysis; travel

HD-01583 NEWTON, NILES, Univ. Mississippi Med. Cr., Jackson, Miss.
anthropology; publications..monography; pregnancy

HE-04731 JOHNSON, WALTER L., American Nurses' Fdn., N.Y.C.
attitudes; family; longitudinal study; myocardial infarct; social adjustment; therapy

MH-10642 SAINATO, HELEN K., Saint Elizabeths Hosp., Washington, D.C.
patient care; psychiatric patients; nurses; mental hospitals; survey

NU-00002 STRAUSS, ANSELM W., Sch. Nursing, Univ. California Med. Cr., San Francisco, Cal.
nutrition; patient care; hospitals patients; hospitals personnel; information exchange; education; concept

NU-00012 DUFF, RAYMOND S., Grace-New Haven Hosp., New Haven, Conn.
patient care; interpersonal behavior; hospitals personnel; socioeconomics; family

NU-00018 THURSTON, JOHN R., Wisconsin State Col., Eau Claire, Wis.
psychological tests; prediction; success-failure; education..nursing education; personality

NU-00019 ELLIOTT, JO E., Western Interstate Comm. Educ., Boulder, Colorado
education..nursing education; education..curriculum; education..postgraduate education

NU-00020 HASSENPLUG, LULU W., Sch. Nursing, U. California, Los Angeles, Cal.
research potential; education..nursing education; teaching; criteria

NU-00021 AUSTIN, FLORENCE C., Visiting Nurse Assn., Hartford, Conn.
administration; community service; criteria; family; patient care..home care; psychiatric patients; public health nursing; social adjustment

NU-00024 NAHM, HELEN, Sch. Nursing, Univ. California, San Francisco, Calif.
interviews; questionnaire; role; self-concept; social psychology; education..nursing; social adjustment; occupations

NU-00025 BAZIAK, ANNA T., Sch. Nursing, Yale Univ., New Haven, Conn.
mental hospitals; nurses; values; performance; conferences..workshop

NU-00028 McKINNEY, JOHN C., Sch. Nurs., Duke Univ., Durham, N. C.
personality; role; self-concept; social psychology; education..nursing education

NU-00030 SOMMERMEYER, LUCILLE, Sch. Nursing, Boston Univ., Boston, Mass.
education..nursing education; medical research; conferences..workshop

NU-00042 RUDNICK, BETTY, Sch. Nursing, Univ. Texas, Galveston, Tex.
education..nursing education; longitudinal study; performance; employment; personality; role; experience

NU-00043 SHIRK, FRIEDA I., Sch. Nursing, Ohio State Univ. Res. Fdn., Columbus, Ohio
education..nursing education; education..postgraduate education; research potential

NU-00045 REESE, EVA M., Visiting Nurse Serv., New York, N.Y.
public health nurses; patient care..home care

NU-00047 STRAUSS, ANSEIM, Sch. Nurs., Univ. California, San Francisco, Cal.
hospitals patients; hospital personnel; interpersonal behavior; patient care..terminal patients

NU-00048 LAMBERTSEN, ELEANOR C., Teachers Col., Columbia Univ., N.Y.C.
education..nursing education; medical personnel

NU-00050 PSATHAS, GEORGE, Washington Univ., St. Louis, Mo.
nurses; education..nursing education; prediction; performance; attitudes; psychometrics; role

NU-00056 THIGPEN, LORNA, Sch. Nursing, Emory Univ., Atlanta, Ga.
education..nursing education; patient care; conferences..workshop; research potential

NU-00059 HANSEN, ANN C., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.
nurses; public health; decision-making; survey; questionnaire; education..nursing education

NU-00060 DUMAS, RHETAUGH G., Sch. Nursing, Yale Univ., New Haven, Conn.
research potential; nurses; interpersonal behavior; patient care

NU-00062 TAYLOR, CALVIN W., Sch. Letters, Sci., Univ. Utah, Salt Lake City, Utah
academic achievement; computer analysis; education..nursing education; nurses; performance; prediction; psychometrics

NU-00063 WALD, FLORENCE S., Sch. Nursing, Yale Univ., New Haven, Conn.
research potential; nurses; education..postgraduate education; consultation; interpersonal behavior; patient care; criteria; education..nursing education

NU-00065 McLEMORE, SAMUEL D., Grad. Sch., Univ. Texas, Austin, Tex.
administration; attitudes; conferences..workshop; criteria; interpersonal behavior; nurses; patient care; performance; survey

NU-00066 SOLON, JERRY A., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
education..nursing education; medical services; morbidity; socioculture; stress; personality; academic achievement; psychology

NU-00069 SCHLOTFELDT, ROZELLA M., Sch. Nursing, Western Reserve Univ., Cleveland, Ohio
education..nursing education; research potential; cooperative study; nurses

NU-00072 NAHM, HELEN, Univ. California Med. Cr., San Francisco, Cal.
education..curriculum; education..nursing education; criteria; problem solving

NU-00077 STONE, JOSEPH, Mount Sinai Hosp., Milwaukee, Wis.
patient care..home care; patient care..post-hospitalization; hospitals patients; socioenvironment; personality

NU-00078 INGMIRE, ALICE E., Sch. Nursing, Univ. California, San Francisco Med. Cr., San Francisco, Cal.
attitudes; computer analysis; decision-making; education..nursing education; interpersonal behavior; leadership; nurses; performance; psychometrics

NU-00080 WHITE, RUTH P., Col. Med., Univ. Vermont, Burlington, Vt.
hospitals patients; patient care; classification; criteria; nurses; physicians

NU-00081 SMITH, ALICE E., Columbia Union Col., Takoma Park, Md.
education..nursing education; training; research potential

NU-00085 CULVER, CHARLES M., Sch. Nursing, Duke Univ. Med. Cr., Durham, N.C.
behavior rating scales; education..audio-visual aids; education..curriculum; education..nursing education; empathy; experimental psychology; interpersonal behavior

NU-00087 FRITZ, EDNA L., Sch. Nursing, Univ. Minnesota, Minneapolis, Minn.
patient care; research potential; education..nursing education; conferences..workshop

NU-00089 GROSS, YUKIE T., Col. Nursing, Univ. Hawaii, Honolulu, Hawaii
education..nursing education; education..student drop-outs; character; values; success--failure; experience; teaching; personality; longitudinal study

NU-00093 RICHARDSON, ELIZABETH H., Sch. Nursing, Tuskegee Inst., Tuskegee, Ala.
longitudinal study; patient care..post hospitalization; infants, human..premature infants; family..parents; child care; training; education..audiovisual aids; socioenvironment; geographical sites..Alabama

NU-00094 LITTLE, DOLORES E., Sch. Nursing, Univ. Washington, Seattle, Wash.
patient care; tuberculosis; nurse-patient relationship; orientation (psychological); monitoring; instrumentation-methodology; nurses; mental disorders; psychotherapy

NU-00095 HOWLAND, DANIEL, Col. Eng., Ohio State Univ., Columbus, Ohio
patient care; monitoring; homeostasis; mathematical models; instrumentation--methodology; blood pressure; temperature; respiration; statistics; physician--patient relationship; nurse--patient relationship; hospitals personnel; information exchange; hospitals patients; surgery..postoperative; hysterectomy; therapy evaluation

NU-00096 MELTZER, LAWRENCE E., Presbyterian Hosp., Philadelphia, Pa.
myocardial infarct; patient care; nurses; monitoring; instrumentation-methodology; arrhythmia, cardiac; morbidity; therapy; prediction

NU-00097 ELLIOTT, JO ELEANOR, Western Interstate Comm. for Higher Educ., Boulder, Colo.
education..curriculum; education..nursing education; geographical sites..United States, Western; information exchange

NU-00103 LYNCH, THERESA I., Sch. Nursing, Univ. Pennsylvania, Philadelphia, Pa.
research potential; nurses; patient care; motivation; education..nursing education

NU-00104 SMITH, GENE, Massachusetts Gen. Hosp., Boston, Mass.
criteria; education..nursing education; peer group; personality; psychometrics; success-failure

NU-00105 JOHNSON, WALTER L., American Nurses' Fdn., Inc., N.Y.C
patient care; nurses; interpersonal behavior; concept

NU-00112 SMITH, DOROTHY M., Col. Nursing, Univ. Florida, Gainesville, Fla.
education..nursing education; education..curriculum; research potential; training; motivation

NU-00116 PERLMUTTER, BEATRICE, Bronx Community Col., Bronx, N.Y.
education..nursing education; education..audiovisual aids; patient care; psychometrics; instrumentation--methodology

NU-00120 CRAYTOR, JOSEPHINE K., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
education..nursing education; education..curriculum; programmed learning; performance; motivation

NU-00126 SELMANOFF, EUGENE D., Indiana Univ. Med. Cr., Indianapolis, Ind.
hospitals personnel; hospitals administration; patient care; physicians; nurses; interpersonal behavior; role; authority

NU-00127 FAVILLE, KATHARINE, Col. Nursing, Wayne State Univ., Detroit, Mich.
nurses; patient care; education..nursing education; research potential; motivation; problem solving

NU-00128 LEVINE, SOL, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
nurses; public health nurses; education..nursing education; patient care..home care; children..preschool; survey; performance; nurse-patient relationship

NU-00130 BERTHOLD, JEANNE S., F.P. Bolton Sch. Nursing, Western Reserve Univ., Cleveland Ohio
education..nursing education; problem solving; thinking; learning; psychometrics; personality

(contd)

NURSING RESEARCH (CONTD)

NU-00131 WOODEN, HOWARD E., Col. Nursing, Univ. Florida, Gainesville, Fla.
nurses; patient care; interviews; nurse-patient relationship; interpersonal behavior

NU-00132 McDOWELL, WANDA, American Nurses Assn., New York, N.Y.
conferences; nurses; information exchanges; research potential

NU-00133 WIENS, ARTHUR N., Univ. Oregon Med. Sch., Portland, Ore.
interpersonal behavior; nurses; communication; conferences..workshop; interviews recording; teaching; nurse-patient relationship

NU-00139 COULTER, PEARL P., Sch. Nursing, Univ. Arizona, Tucson, Ariz.
education..postgraduate education; education..nursing education; research potential; teaching

NU-00142 SIMON, HELEN M., New York City Dept. Health, N.Y.C.
medical services; public health nurses; infant human; children..preschool; family..parents; attitude; behavior; interviews

NU-00145 LEWIS, CHARLES E., Univ. Kansas Med. Cr., Kansas City, Kans.
patient care..ambulatory patients; hospitals outpatients; medical services

NU-00146 SACHS, MARVIN L., Hosp. Univ. Pennsylvania, Philadelphia, Pa.
skin diseases; mechanical pressure; body position; hospitals patients; patient care; instrumentation--methodology; temperature; oxygen tension; blood circulation dynamics

NU-00150 GEORGOPOULOS, BASIL S., Univ. Michigan, Ann Arbor, Mich.
nurses; patient care; interpersonal behavior; role; criteria; social organization..institutional organization; dyadic interaction; performance; conflict

NU-00154 FREEMAN, RUTH B., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
education..nursing education; education universities; teaching; public health nurses; research potential

NU-00158 KLAUS, DAVID J., American Inst. Research, Pittsburgh, Pa.
education..nursing education; patient care; hospitals; teaching; programmed learning

NU-00163 FAVILLE, KATHERINE, Col. Nursing, Wayne State Univ., Detroit, Mich.
education..nursing education; education..universities; teaching; research potential; nurses

NU-00167 QUINN, MILDRED D., Col. Nursing, Univ. Utah, Salt Lake City, Utah
education..nursing education; education..universities; research potential; nurses

NU-00168 ABRAHAMSEN, CHRISTINE E., Med., Hlth. Res. Assn. New York City, Inc., New York, N.Y.
public health nurses; student health services; education.. secondary education; survey

NU-00170 McKENNA, JOSEPH V., St. Louis Univ., St. Louis, Mo.
patient care; nurses; hospitals personnel; hospitals administration; medical economics; hospitals analysis

NU-00175 PAVALKO, RONALD M., Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.
education..nursing education; social psychology; socio-economics; performance; longitudinal study; computer analysis; career

NUTRITION

AI-00533 FRAENKEL, GOTTFRIED S., Grad. Sch., Univ. Illinois, Urbana, Ill.
plants; insecticides; hormones; nutrients; reproduction; embryology; feeding behavior; growth inhibitors; carnitine

AI-03207 SCHNEIDER, HOWARD A., Rockefeller Inst., N.Y.C.
salmonellosis; immunity; vitamin; chemical structure--biological activity

AI-03645 SQUIBB, ROBERT L., Col. Arts, Sci., Rutgers Univ., New Brunswick, N.J.
viruses..Newcastle disease virus; poultry; nitrogen balance; enzymes

AI-03646 WHITEHAIR, CHARLES K., Col. Vet. Med., Michigan State Univ., East Lansing, Mich.
infectious diseases; veterinary medicine; viruses..transmissible gastroenteritis virus of swine

AI-05369 DEMPSEY, WALTER B., Sch. Med., Univ. Florida, Gainesville, Fla.
bacteria..Escherichia coli; enzymes; enzymes inhibitors; genetic strains; growth, microorganisms; phosphotransferases..ATP:pyridoxal-5-phosphotransferase; pyridoxal phosphate; pyridoxine

AM-00001 GOLDSMITH, GRACE A., Sch. Med., Tulane Univ., New Orleans, La.
vitamin B12; algae..Ochromonas malhamensis; folic acid; macrocytic anemia; malabsorption syndromes; amino acid; pellagra; gastrointestinal hormones; intrinsic factor

AM-00193 COHN, CLARENCE, Michael Reese Hosp., Chicago, Ill.
atherosclerosis; diabetes..alloxan diabetes; diet; habit; obesity

AM-00257 ARGOUDELIS, CHRISTOS J., Grad. Sch., Univ. Illinois, Urbana, Ill.
vitamin B6 complex; pyridoxal; pyridoxine; tritium; diet

AM-00592 ARMSTRONG, WALLACE D., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
binding; blood proteins..plasma proteins; bone; diet; gastrointestinal system; ion..cation; kidney; kidney disorders; radiolabeled calcium; radiolabeled fluorine; radiolabeled strontium; sweat; vitamin D

AM-00668 HARRISON, HAROLD E., Johns Hopkins Hosp., Baltimore, Md.
calcification; calcium; citrate; hydrocortisone; intestines; ion; membrane permeability; parathyroid hormones; phosphates; vitamin D

AM-00903 EMMEL, VICTOR M., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
tocopherol; dietary deficiency; kidney..renal tubules; proteases; lipids; diet; fats

AM-00981 BEHAR, MOISES, Inst. Nutrition Central America, Panama, Guatemala City, Guatemala
proteins; kwashiorkor; marasmus; adrenal cortex hormones; amino acid; children; anthropology; epidemiology; malnutrition; infants, human; feeding

AM-01175 SALMON, W. D., Auburn Univ., Auburn, Alabama
proteins; diet; amino acid; protein-free diet; growth

AM-01347 SWENDSEID, MARIAN E., Sch. Pub. Hlth., Univ. California, Los Angeles, Cal.
amino acid; nutrition; nitrogen balance; sex difference

AM-01373 GREENBERG, LOUIS D., Sch. Med., Univ. California, San Francisco, Cal.
riboflavin; dietary deficiency; primates..monkeys; fats; diet; blindness; paralysis; muscle..skeletal muscle; nervous system..peripheral nerves; limbs; coenzyme; autopsy

AM-01408 BEAN, WILLIAM B., State Univ. Iowa, Col. Med., Iowa City, Iowa
tetanus toxoid; vaccines..Salmonella typhosa vaccine; dietary deficiency; pantothenic acid; pyridoxine; immunity; immunology..autoimmunology; transplantation; skin; histocompatibility

AM-01448 SNELL, ESMOND E., Univ. California, Berkeley, Cal.
amino acid; bacteria; enzymes; enzymes inhibitors; microorganisms; plants; pyridoxine; radiolabeled

AM-01464 EDWARDS, CECILE H., Agr., Tech. Col. North Carolina, Greensboro, N.C.
methionine; radiolabeled carbon; metabolites

AM-01520 FRENK, SILVESTRE, Hosp. Infantil de Mexico, D.F., Mexico
infant human; malnutrition; kwashiorkor; adrenal cortex hormones; thyroid hormones; parathyroid hormone; calcium; binding; blood proteins..serum proteins; triiodothyronine; blood cells..erythrocytes; kidney function; glucose tolerance

AM-01772 THOMAS, WILLIAM C., Jr., Col. Med., Univ. Florida, Gainesville, Fla.
adrenal cortex hormones; bone; calcium; carbon dioxide; cell components..cell membrane; hypercalcemia; thyroid gland disorders; thyroxine; trace elements; urinary calculi

AM-01778 LUHBY, A. LEONARD, Sch. Med., New York Med. Col., New York, N.Y.
amino acid; pernicious anemia; folic acid; dietary deficiency; kwashiorkor; anemia; pregnancy; formiminoglutamic acid; vitamin B12; therapy; histidine; age; sickle cell anemia; thalassemia; hemoglobinopathy; diagnostic tests

AM-01804 LEPKOVSKY, SAMUEL, Univ. California, Berkeley, Cal.
aminotransferases..kynurenine transaminase; brain..hypothalamus; carboxylases..picolinic carboxylase; dehydrogenases..glucose-6-phosphate dehydrogenase; diabetes; hypophysectomy; metabolites; pancreatectomy; peroxidases ..tryptophane peroxidase; phosphomonoesterases glucose-6-phosphatases; tryptophan

AM-01933 GUSTAFSSON, BENGT E., Sch. Med., Karolinska Inst., Stockholm, Sweden
germ-free; cholesterol; intestines..cecum; urinary calculi; animal facilities; intestinal obstruction; bile acids and salts; dental calculus; vitamin K; mast cells

AM-02018 BORCHERS, RAYMOND, Sch. Agr., Univ. Nebraska, Lincoln, Nebr.
diet; growth inhibitors; radiolabeled carbon; soybean; threonine; valine

AM-02025 JACOBS, FRANCIS A., Sch. Med., Univ. North Dakota, Grand Forks, N.D.
intestinal absorption; amino acid; vitamin; perfusion; membrane permeability and transport

AM-02230 RAMSEY, HAROLD A., Sch. Agr., North Carolina State Col., Raleigh, N.C.
age; gastrointestinal system; infants (animal)..newborn; intestinal absorption; lipases..pregastric esterase; lipolysis; proteases; proteins

AM-02274 REID, BOBBY L., Grad. Sch., Univ. Arizona, Tucson, Ariz.
fluorides; dietary deficiency; growth; reproduction; bone; enzymes

AM-02353 BOGNER, PHYLLIS H., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
aging; enzymes; enzymes inhibitors; fasting; glucose; hormones; intestinal absorption

AM-02452 MEINTZER, ROGER B., Sch. Agr., North Dakota State Univ., Fargo, N.D.
bone; calcium; cell; cell components; citrate; enzymes; intestines; parathyroid glands; vitamin D

AM-02483 TOVE, SAMUEL B., Sch. Agr., North Carolina State Col., Raleigh, N.C.
unsaturated fatty acids; adipose tissue; lipases; glycerides; chemical structure--biological activity; triglycerides; hydrogenation; bacteria..rumen bacteria

AM-02488 **OLSON, ROBERT E., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.**
amino acid; bile acids and salts; cholesterol; diet; fats; feces; hypocholesteremia; lipids..serum lipids; lipoproteins..serum lipoproteins; proteins; radiolabeled carbon; sterols

AM-02588 **OLSON, ROBERT E., Grad. Sch., Univ. Pittsburgh, Pittsburgh, Pa.**
acetates; adipose tissue; basal metabolism; blood..plasma; cholesterol; diet; fatty acids; glucose; α-ketoglutarate; lactates; obesity; pyruvate; radiolabeled carbon

AM-02808 **HALL, CHARLES A., Albany Med. Col., Union Univ., Albany, N.Y.**
vitamin B12; binding; blood..plasma; reaction sites; bone marrow diseases

AM-02837 **NASSET, EDMUND S., Sch. Med., Univ. Rochester, Rochester, N.Y.**
intestines; amino acid; blood; diet; gastrointestinal system

AM-02839 **MAYER, JEAN, Harvard Sch. Pub. Hlth, Boston, Mass.**
attitudes; body build; children..adolescence; exercise; iron; nutrition; obesity; psychological tests

AM-02889 **REID, J. THOMAS, Col. Agr., Cornell Univ., Ithaca, N.Y.**
body water; gastrointestinal system; tritium; body composition; creatinine; metabolites; antipyrine; diet; radiolabeled potassium; blood flow; body density; formates; N--acetyl 4--aminoantipyrine; lipids

AM-02911 **MAYER, JEAN, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.**
obesity; adipose tissue; hyperglycemia; diet; fats; fatty acids; caffeine; exercise; temperature; insulin; alloxan; obesity hereditary hyperglycemia; hypercholesteremia; metabolic diseases

AM-03024 **KLOSTERMAN, HAROLD J., North Dakota State Univ., Fargo, N.D.**
antipyridoxine factor; seeds; chemical structure--biological activity; microorganisms

AM-03046 **LYMAN, RICHARD L., Col. Agr., Univ. California, Berkeley, Cal.**
pancreas; enzymes; diet; enzymes inhibitors, trypsin inhibitors; radiolabeled phosphorus; phospholipids; phosphates; amino acid; protein-bound amino acids; dietary deficiency; acetates; antimetabolites; secretory mechanisms

AM-03056 **GERSHOFF, STANLEY N., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.**
pyridoxine; magnesium; calcium oxalate; glyoxylate; glycolates; citrates; insulin; pituitary hormones; dietary deficiency

AM-03127 **BRIN, M., State Univ. of N.Y., Syracuse, N.Y.**
enzymes; thiamine; nutrition; blood

AM-03141 **BERG, CLARENCE P., Col. Med., State Univ. Iowa, Iowa City, Iowa**
D--histidine; D--lysine; D--threonine; growth inhibitors; amino acid inhibitors; oxidoreductases..D--amino acid oxidase; diet; enzyme inhibitors; liver; kidney; D--amino acid; leucine; valine; growth

AM-03144 **CLARKE, MIRIAM F., Women's Med. Col., Philadelphia, Pa.**
deuterium oxide; body water; menstrual cycle; anthropometry

AM-03294 **DIEHL, J. FRIEDRICH, Sch. Med., Univ. Arkansas, Little Rock, Ark.**
amino acid; dietary deficiency; glycine; proteins; radiolabeled carbon; tocopherol

AM-03345 **ODLAND, LURA M., Univ. Tennessee, Knoxville, Tenn.**
bone density; minerals; instrumentation; age; longitudinal study; dietary deficiency

AM-03442 **BROWN, GENE M., Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.**
bacteria..Escherichia coli; enzymes; folic acid; folic acid antagonists; fungi..yeasts; sulfonamines; thiamine

AM-03505 **DANIEL, LOUISE J., New York State Col. Agr., Cornell Univ., Ithaca, N.Y.**
choline; methionine; microorganisms; thymine; vitamin B12

AM-03523 **BEST, CHARLES H., Charles H. Best Inst., Toronto, Ontario, Canada**
transmethylases..glycine methyltherase; molecular structure; choline; phosphorylation; triglycerides; liver; perfusion; methionine; phospholipids

AM-03524 **LYON, JOHN B., Jr., Sch. Med., Emory Univ., Atlanta, Ga.**
brain; diet; liver; muscle..skeletal muscle; phosphorylases; vitamin B6 complex

AM-03619 **STORVICK, CLARA A., Sch. Home Ec., Oregon State Univ., Corvallis, Ore.**
bioassay; blood; chemical structure; coenzyme; milk; phosphates; pyridoxine

AM-03620 **BARNES, RICHARD H., Grad. Sch., Cornell Univ., Ithaca, N.Y.**
infant animals; proteins; dietary deficiency; edema (generalized); water--electrolyte balance; vasopressin; adrenal glands; intestinal absorption; kwashiorkor; behavior

AM-03767 **PRICE, CARL A., Rutgers State Univ., New Brunswick, N.J.**
zinc; growth, microorganisms; protozoa..Euglena; enzymes; algae; cell components..organelles

AM-03811 **BRESSANI, RICARDO, Inst. Nutr. Central America and Panama, Guatemala, Guatemala, C.A.**
amino acids; kwashiorkor; diet; oats; wheat; corn; children; nutrition

AM-03968 **GERSHON-COHEN, JACOB A., Albert Einstein Med. Cr., Philadelphia, Pa.**
osteoporosis; calcium; dietary deficiency; tetracycline; bone..hip; bone fractures; proteins; diet; aging; cortisone; longitudinal study

AM-03995 **BROCK, JOHN F., Sch. Med., Univ. Cape Town, Cape, South Africa**
proteins; malnutrition; kwashiorkor; infant human; adults; radiolabeled iodine; albumins; gamma globulin; liver; fats; PVP; nitrogen balance; intestinal absorption; gastroenteritis; nicotinic acid; magnesium; leucine; body composition; socioeconomics; intestines..duodenum; body water

AM-04183 **HOLT, L. EMMETT, Jr., Sch. Med., New York Univ., New York, N.Y.**
amino acids; branched-chain acids; blood..serum; methionine; phenylalanine; tyrosine; diet; blood cells.. erythrocytes

AM-04226 **MONCKEBERG, FERNANDO, Hosp. Manuel Arriaran, Santiago, Chile**
marasmus; infant human; dietary deficiency; endocrine glands; proteins; carbohydrates metabolism disorders

AM-04249 **SCHILLING, ROBERT F., Sch. Med., Univ. Wisconsin, Madison, Wis.**
binding; intestinal absorption; intrinsic factor; vitamin B12

AM-04302 **PFIFFNER, JOSEPH J., Sch. Med., Wayne State Univ., Detroit, Mich.**
cobamides; microorganisms; porphyrins; vitamin B12

AM-04308 **FITCH, COY D., Univ. Arkansas Med. Cr., Little Rock, Ark.**
fats; tocopherol; dietary deficiency; creatinuria; creatine; anemia; selenium; porphyrins; bone marrow; heme; primates..monkeys; muscle; muscular dystrophy; ubiquinone

AM-04309 **WIESE, HILDA F., Children's Hosp., Oakland, Cal.**
arachidonic acid; diet; dietary deficiency; fatty acids; linoleic acid; skin

AM-04311 **WISEMAN, RALPH F., Grad. Sch., Univ. Kentucky, Lexington, Ky.**
bacteria; intestines; uric acid growth factors; blood; diet

AM-04341 **ALLISON, JAMES B., Rutgers Univ., New Brunswick, N.J.**
amino acid; blood proteins..plasma proteins; cell components..microsomes; cell components..mitochondria; hypertension (systemic); nucleases..ribonucleases; proteins; radiolabeled carbon; radiolabeled sulfur; ribonucleic acid; stress

AM-04345 **UNGLAUB, WALTER G., Sch. Med., Tulane Univ., New Orleans, La.**
survey; ecology, human; vitamin A; bioassay; carotenes; blood proteins..serum proteins; children..preschool; diet; albumins..serum albumins

AM-04464 **ROELS, OSWALD A., Sch. Pub. Hlth., Columbia Univ., New York, N.Y.**
vitamin A; liver; therapy; dietary deficiency; proteins; lipoproteins; blood..serum; cell components..cell wall; membrane permeability and transport

AM-04524 **HOLMAN, RALPH T., Hormel Inst., Austin, Minn.**
unsaturated fatty acids; fatty acids; diet; nutrition; linoleic acid; linolenic acid; arachidonic acid

AM-04724 **DAYTON, PETER G., Goldwater Mem. Hosp., New York, N.Y.**
ascorbic acid; 3--methylcholanthrene; glucuronic acid; glucose; radiolabeled carbon; binding; proteins; ascorbic acid analogs; liver

AM-04727 **IOB, VIVIAN, Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
amino acid; dietary deficiency; blood..plasma; nitrogen balance; surgery..postoperative; diet

AM-04731 **ARROYAVE, GUILLERMO, Inst. Nutrition, Guatemala, C.A.**
dietary deficiency; proteins; creatinine; urea; geographical sites..Central America; amino acid; children; criteria

AM-04732 **FREEDLAND, RICHARD A., Sch. Vet. Med., Univ. California, Davis, Cal.**
diet; enzymes; gluconeogenesis; hormones; lipids; proteolysis; toxicology

AM-04737 **FRAZER, ALASTAIR C., Sch. Med., Univ. Birmingham, Birmingham, England**
malabsorption syndromes; glutens; fractionation; steatorrhea; enzymes; immunology; fatty acids; feces; radiolabeled; intestinal absorption; nutrients; iron; oxidation--reduction; folic acid; vitamin B12; calcium; bacteria..enterobacteria; intestinal motility

AM-04738 **OSBORN, MARGARET O., Grad. Sch., State Univ. Iowa, Iowa City, Iowa**
animal facilities; blood; climate..humidity; diet; longevity; temperature; tissue; unsaturated fatty acids

AM-04740 **ROGLER, JOHN C., Sch. Agr., Purdue Univ., Lafayette, Ind.**
minerals; potassium; magnesium; ovulation; embryology; congenital abnormalities; phosphorus; sodium; fluorides; sulfates; cholesterol; diet; arteries..aorta; atherosclerosis

AM-04742 **LEASE, JANE G., Clemson Col., Clemson, S.C.**
zinc; dietary deficiency; sesame; reaction sites; binding; proteins; infants, animals

AM-04837 **KOCH, RICHARD, Children's Hosp., Los Angeles, Cal.**
diet; galactosemia; children; psychological tests; blood cells..erythrocytes; galactose-1-phosphate

AM-04839 **KINNEY, THOMAS D., Sch. Med., Duke Univ., Durham, N.C.**
diet; intestinal absorption; iron; longitudinal study; pancreas; siderosis; tissue

(contd)

LISTING OF GENERAL RESEARCH AREAS

NUTRITION (CONTD)

AM-04854 CARROLL, S. CATHERINE, Univ. Arkansas, Fayetteville, Ark.
carbohydrates; lipids; diet; starch; sucrose; corn oil; coconut oil; enzymes; fructose; glucose; peanut oil; saturated fats; adenosine phosphates

AM-04903 CINTRON-RIVERA, A.A., Sch. Med., Univ. Puerto Rico, San Juan, P.R.
epidemiology; genetics; malabsorption syndromes; sprue

AM-04904 FISHER, HANS, Col. Agr., Rutgers State Univ., New Brunswick, N.J.
amino acid; dietary deficiency; creatinine; kidney.. renal tubular transport

AM-04942 PRIVETT, ORVILLE S., Grad. Sch., Hormel Inst., Austin, Minn.
diet; fats; chemical structure; triglycerides; fatty acids; adipose tissue; radiolabeled carbon; heart; liver; kidney; lymph

AM-04971 SOBOTKA, HARRY, Mt. Sinai Hosp., N.Y.C.
folic acid; glutamates; intestinal absorption; isomers; polypeptides; proteases..peptidases; therapy

AM-05034 LEVY, HOWARD A., Hahnemann Med. Col. Hosp., Philadelphia, Pa.
body composition; body weight; diet; d--amphetamine; fats; body volume; body water; low calorie diet; obesity

AM-05104 DURNIN, J.V.G.A., Univ. Glasgow, Glasgow, Scotland
food; children..adolescence; aging; geographical sites.. Europe; survey; exercise

AM-05219 EMERSON, GLADYS A., Sch. Pub. Hlth., Univ. California, Los Angeles, Cal.
cardiorenal disorders; diabetes; fatty acids; hypothyroidism; nutrients; primates..monkeys; pyridoxine; reproduction; tocopherol

AM-05285 SEBRELL, WILLIAM H., Sch. Pub. Hlth., Admin. Med., Columbia Univ., New York, N.Y.
geographical sites..Asia; training; infant human; children; growth; diet; lactation; dietary deficiency; vitamin A; zinc; dwarfism

AM-05296 VORIS, LEROY, Natl. Acad. Sci., Washington, D.C.
cooperative study; diet; ecology, human; growth; life cycle

AM-05334 KRATZER, F.H., Grad. Sch., Univ. California, Davis, Cal.
binding; chelating agents; diet; food; metal; plants; poultry; proteins; zinc

AM-05396 MATTERSON, LLOYD D., Univ. Connecticut, Storrs, Conn.
lipids; plants; tocopherol; carotenes; intestinal absorption; diet; plastoquinone; gas chromatography; adsorption chromatography; vitamin A

AM-05496 OLSON, ROBERT E., Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
choline; dietary deficiency; triglycerides; fatty liver; liver function

AM-05499 MAJAJ, AMIN S., Augusta Victoria Hosp., Jerusalem, Jordan
kwashiorkor; infant human; ethnic groups..Arabs; age; vitamin B12; therapy; macrocytic anemia; breast feeding; dietary deficiency; gastroenteritis; methionine; ascorbic acid; maternal--fetal; iron; vitamin; protozoa..Balantidium coli

AM-05501 HELLERSTEIN, EARL E., Sch. Med., Harvard Univ., Boston, Mass.
choline; dietary deficiency; fatty acids; liver; phospholipids; radiolabeled carbon; radiolabeled phosphorus; saturated fats

AM-05502 KIVEL, RAYMOND M., Sch. Med., Stanford Univ., Palo Alto, Cal.
body fluids; clutens; hypersensitivity; immunology..antibodies; immunology..antigens; intestinal absorption; molecules..macromolecules; proteins; sprue; wheat

AM-05551 MARTIN, TRUMAN G., Grad. Sch., Purdue Univ., Lafayette, Ind.
body composition; body weight; diet; environment; genetics; growth; radiolabeled potassium; scintillation counters

AM-05552 SKINNER, WILFRED A., Stanford Res. Inst., Menlo Park, Cal.
bacteria; chemical structure; creatinuria; muscular dystrophy; oxidation; oxidative phosphorylation; tocopherol

AM-05554 HEALD, FELIX P., Res. Fdn. of Children's Hosp., Washington, D.C.
research programs; obesity; children..adolescence; glucose tolerance; psychology

AM-05590 FARBER, EMMANUEL, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
amino acid inhibitors; cell components..microsomes; ethionine; fatty liver; liver; methionine; pancreatitis; proteins; testosterone

AM-05651 HILL, CHARLES H., Sch. Agr., North Carolina State Col., Raleigh, N.C.
copper; hematopoiesis; leg; congenital abnormalities; hemoglobin; blood cells..erythrocytes; zinc; dietary deficiency; cell death; anemia; bioassay

AM-05670 ALEXANDER, H.D., Sch. Vet. Med., Auburn Univ., Ala.
ACTH; blood circulation dynamics; choline; cortisone; dietary deficiency; edema, generalized; gonadotropins; heart; hormones; hypophysectomy; isoleucine; liver damage; lysine; radiolabeled; testosterone; therapy; threonine; tryptophan; vasopressin

AM-05683 HUGHES, EDWIN R., Univ. Arkansas Med. Ctr., Little Rock, Ark.
adrenal cortex hormones; trace elements; dietary deficiency; radiolabeled manganese; glucocorticoids; pituitary glands transplantation; pituitary neoplasms; radiolabeled zinc; radiolabeled iron; growth hormones; liver

AM-05686 COHN, CLARENCE, Michael Reese Hosp., Chicago, Ill.
metabolic diseases; fats; carbohydrates; proteins; feeding behavior

AM-05718 HARPER, ALFRED E., Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.
amino acids; growth; food; dietary deficiency; nutrition

AM-05745 RONNING, MAGNAR, Col. Agr., Univ. California, Davis, Cal.
carbohydrates; fats; diet; infants, animals..newborn; fat-free diet; vitamin B complex; thiamine; biotin; lipids; unsaturated fatty acids

AM-05766 SOBERON, GUILLERMO, Inst. Nacional de Nutricion, Mexico, D.F.
blood cells..erythrocytes; dietary deficiency; enzymes; proteins; hemoglobin; age; adenosine triphosphate; glutathione; pyridine nucleotides

AM-05767 SHIELDS, GEORGE S., Cincinnati Gen. Hosp., Cincinnati, Ohio
copper; dietary deficiency; connective tissue diseases; lathyrism; therapy; copper sulfate

AM-05799 WESWIG, PAUL H., Grad. Sch., Oregon State Univ., Corvallis, Ore.
heart..myocardium; calcification; muscular diseases; selenium; muscle..skeletal muscle; diet; enzymes; heart diseases

AM-05800 MeLUCA, HECTOR F., Col. Agr., Univ. Wisconsin, Madison, Wis.
calcium; cell; cell components; cell components.. mitochondria; intestines; kidney; mucous membrane; radiolabeled carbon; tritium; vitamin D; parathyroid hormones

AM-05811 SINGAL, SAM A., Sch. Med., Col. Georgia, Augusta, Ga.
amino acid; fatty acids; fatty liver; oxidation; phosphogluconate; proteins; pyridine nucleotides; radiolabeled carbon

AM-05831 PETERSON, MALCOLM L., Sch. Med., Washington Univ., St. Louis, Mo.
chylomicrons; triglycerides; diet; fats; fatty acids; intestinal absorption; thoracic duct fistula; blood vessels shunts..portacaval shunt

AM-05883 HEPBURN, FRANK N., Am. Inst. Baking, Chicago, Ill.
amino acid; D-amino acid; diet; arginine; glutamates; ammonia; detoxication; blood; urea

AM-05885 RODERBUCK, CHARLOTTE E., Sch. Home Ec., Iowa State Univ., Ames, Iowa
immunology..antibodies; proteins; diet; casein; egg proteins; soy bean; wheat; gluten; properdin; amino acid; immunology..complement; methionine

AM-05908 SIDRANSKY, HERSCHEL, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
amino acid; arginine; diet; dietary deficiency; feeding; glycogen; leucine; lipids; liver; pancreatic diseases

AM-05910 NIELSON, REED R., Col. Arts, Sci., Miami Univ., Oxford, Ohio
dehydrogenases, malate dehydrogenase; dehydrogenases.. succinate dehydrogenase; enzymes; fasting; feeding; heart ..myocardium; kidney; liver; muscle; thyroidectomy

AM-05911 McCRACKEN, BRIAN H., Sch. Med., Tulane Univ., New Orleans, Louisiana
proteins; renal failure; protein-free diet; carbohydrates; potassium; urea

AM-05912 ABELSON, DENIS M., Univ. Pennsylvania, Philadelphia, Pa.
nicotinamide; metabolites; uremia; radiolabeled carbon; radiation effects; NAD; pyridine

AM-05921 GYORGY, PAUL, Philadelphia Gen. Hosp., Philadelphia, Pa.
geographical sites..Indonesia; geographical sites.. Thailand; vitamin A; dietary deficiency; infant human; mortality; blindness; red palm oil; urinary calculi

AM-05933 MORRISON, MARY A., Col. Home Economics, Cornell Univ., Ithaca, N.Y.
amino acid; diet; liver; metabolites; nicotinic acid; pyridine nucleotides; tryptophan

AM-06005 JOHNSON, B. CONNOR, Grad. Sch., Univ. Illinois, Urbana, Ill.
vitamin K; molecular structure; blood coagulation.. prothrombin; estrogens; dietary deficiency; blood disorders; electron transport; cell components..microsomes; tissue respiration

AM-06011 REISER, RAYMOND, Texas Agr. Exptl. Station, College Station, Tex.
glycerides; lipids; intestinal absorption; diet; fats; cholesterol; fatty acids; adipose tissue; chemical structure

AM-06021 GAL, EMERY M., Sch. Med., State Univ. Iowa, Iowa City, Iowa
lipoic acid; metabolites; radiolabeled sulfur; synthesis; radiolabeled carbon; nervous system..central nervous system; toxicology; dietary deficiency; thiamine; ascorbic acid; enzymes; tocopherol

AM-06032 FERNANDEZ, NELSON A., Sch. Med. Univ. Puerto Rico, San Juan, P.R.
geographical sites..Puerto Rico; socioenvironment rural areas; socioeconomics; hemoglobin; hematocrit; blood proteins..serum proteins; ascorbic acid; vitamin A; carotenes; thiamine; riboflavin; N-methylnicotinamide; creatinine; parasitic diseases

AM-06090 **STONE, DANIEL B.**, University Hospitals, Iowa City, Iowa
diabetes; diet; lipids; longitudinal study; age; sex difference

AM-06093 **ARATA, DOROTHY**, Col. Home Ec., Michigan State Univ., East Lansing, Mich.
threonine; fatty liver; dietary deficiency; chemical structure; fats; carbohydrates

AM-06117 **STEWART, WELLINGTON B.**, Col. Med., Univ. Kentucky, Lexington, Ky.
fatty acids; fatty liver; lipids; diet; choline; dietary deficiency

AM-06140 **COON, WILLIAM W.**, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
blood cells..erythrocytes; dietary deficiency; FAD; glyoxylate; metabolic diseases; nutrition; pyridoxine; riboflavin; surgery; thiamine; transferases..transketolase; urinary calculi

AM-06212 **RODAHL, KAARE**, Lankenau Hosp., Philadelphia, Pa.
hypervitaminosis; vitamin A; sulfur; radiolabeled sulfur

AM-06214 **KASHKET, SHELBY**, Massachusetts Gen. Hosp., Boston, Mass.
bacteria..Lactobacillus leichmanni; binding; cell components..ribosomes; chemical structure; glycoproteins; radiolabeled cobalt; vitamin B12

AM-06215 **POULTON, BRUCE R.**, Col. Life Sci., Univ. Maine, Orono, Me.
growth factors; purified diet; proteins; amino acid; minerals; vitamins; fats; carbohydrates; intestinal fistula; bacteria..enterobacteria; casein; metabolic diseases; genetic strains

AM-06217 **STRENGTH, D. RALPH**, Sch. Agr., Auburn Univ., Auburn, Ala.
phospholipids; choline; ethionine; chemical structure--biological activity; metabolites; radiolabeled carbon; diet; methionine; nitrogen compounds; tissue; fractionation; cell components..mitochondria; cell components..microsomes; oxidative phosphorylation; fatty acids; amino acids; oxidation; liver diseases; ethanolamines

AM-06247 **SLOAN, WILLIAM C.**, San Diego State Col., San Diego, Cal.
nitrogen; ammonia; proteins; diet

AM-06248 **KEFNEY, MARK**, Sch. Agr., Univ. Maryland, College Park, Md.
bacteria; chemical structure; lipids; stomach..rumen

AM-06271 **WASSERMAN, ROBERT H.**, New York State Vet. Col., Cornell Univ., Ithaca, N.Y.
vitamin D3; radiolabeled carbon; rickets; tritium; tissue; radioautography; cell

AM-06274 **SCRIMSHAW, NEVIN S.**, Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.
stress; nutrients; adults; infectious diseases; emotional disturbance; diet; drugs; toxicology; asthma

AM-06309 **SHANK, ROBERT E.**, Sch. Med., Washington Univ., St. Louis, Mo.
diet; enzymes; dietary deficiency; liver cells; proteins; cholesterol; deoxyribonucleic acid; hepatotoxins; regeneration

AM-06336 **JONES, JAMES D.**, Mayo Assn., Rochester, Minn.
amino acid; toxicology; diet; proteins; soy bean; casein; lysine; arginine; electrolytes; methionine; glycine

AM-06337 **ROGERS, DEXTER**, Col. Family Life, Utah State Univ., Logan, Utah
amino acid; ascorbic acid; chemical structure; collagen; collagen diseases; dietary deficiency; hydrolysis; hydroxyproline; peptides; polymerization; radiolabeled carbon; stability constants; tritium

AM-06338 **EDWARDS, HARDY M., Jr.**, Sch. Agr., Univ. Georgia, Athens, Ga.
unsaturated fatty acids; growth; liver; lipids; egg hatching; marine oils; heart; fatty acids; diet; egg proteins

AM-06424 **TAPPEL, ALOYS L.**, Sch. Agr., Univ. California, Davis, Cal.
amino acid; antioxidants; free radicals; lipids; peptides; perioxidation; proteins; radiation effects; selenium; synthesis

AM-06446 **NELSON, RALPH A.**, Fairview Park Hosp., Cleveland, Ohio
glucose; sodium; intestinal absorption; intestines..small intestine; diabetes

AM-06512 **SHERMAN, BURTON S.**, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
bone..epiphyses; cartilage; cell age; cell division..mitosis; chondrogenesis; colchicine; collagen; deoxyribonucleic acid; dietary deficiency; ground substance; mucopolysaccharides; osteoclasts; osteogenesis; proline; radiolabeled sulfur; thymidine; tritium; vitamin A

AM-06539 **CARLSON, CURTIS H.**, Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
beryllium; bone; calcification; kidney function; longitudinal study; radiolabeled beryllium; radiolabeled vanadium; tissue; trace elements

AM-06625 **BIRD, JOHN W.C.**, Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
tocopherol; dietary deficiency; peroxidation; lipids; muscles; lipoproteins; enzymes; cell components..lysosomes; sulfhydryls

AM-06674 **LUNGBERG, WALTER O.**, The Hormel Inst., Austin, Minn.
lipids..serum lipids; sex difference; age; metabolic diseases; chemical structure

AM-06675 **LINKSWILER, HELLEN**, Sch. Home Ec., Univ. Wisconsin, Madison, Wis.
amino acid; dietary deficiency; fatty acids; pyridoxine

AM-06735 **PATWARDHAN, V.N.**, WHO, Geneva, Switzerland
dietary deficiency; vitamin A; xerophthalmia; keratomalacia; carotenes; infant human; children; breast feeding; epidemiology; survey; geographical sites..Latin America; geographical sites..Africa; geographical sites..Asia; malnutrition

AM-06755 **EVANS, ROBERT J.**, Michigan State U., East Lansing, Mich.
seeds; proteins; amino acid; lysine; binding; heat; peptides

AM-06771 **KON, S.K.**, Natl. Inst. Res. in Dairying, Shinfield, Reading, Berkshire, England
diet; proteins; amino acid; blood..plasma

AM-06798 **HELMS, CARL W.**, Col. Arts, Sci., Bucknell Univ., Lewisburg, Pa.
seasonal variation; fats; fatty acids; migratory animals; brain lesions; obesity; birds; [illegible]ic functions; ecology, animal; computer analysis

AM-06811 **PATEK, ARTHUR J., Jr.**, Goldwater Mem. Hosp., Welfare Island, N.Y.C.
cholesterol; diet; dietary deficiency; fatty acids; fatty liver; liver cirrhosis; phospholipids; proteins; triglycerides; unsaturated fats

AM-06819 **CREEK, RICHARD D.**, Univ. Maryland, College Park, Md.
wheat; diet; growth inhibitors; enzymes inhibitors; food processing; heat lability; carbohydrates; fats; vitamin A; intestinal absorption; hemagglutinins

AM-06837 **MILLER, SANFORD A.**, Massachusetts Inst. Tech., Cambridge, Mass.
growth; 1,3--butanediol; 2,4--dimethylheptanoic acid; chemical structure--biological activity; synthesis; calorimetry; purified diet; radiolabeled carbon

AM-06849 **NORKIN, STANISLAV A.**, Woman's Med. Col. Pennsylvania, Philadelphia, Pa.
diet; lipids; ceroid; unsaturated fats; tocopherol; chemical structure; adipose tissue; liver damage; proteins; choline; liver necrosis; yellow fat disease; liver cirrhosis

AM-06879 **STAGG, RONALD M.**, Med. Col. Virginia, Richmond, Va.
proteins; endocrine glands; protein-free diet; purified diet; 1-amino acid; radiolabeled carbon

AM-06910 **WAIBEL, PAUL E.**, Univ. Minnesota, St. Paul, Minn.
amino acid; blood..plasma; purified diet; proteins; growth; uric acid; urea; creatinine; cholesterol; radiolabeled carbon; tritium; germ-free; fasting

AM-06978 **McCAY, PAUL B.**, Oklahoma Med. Res. Inst., Okla. City, Okla.
cell components..cell membrane; cell components..cell nucleus; cell components..microsomes; cell components..mitochondria; dietary deficiency; fatty acids; peroxidation; phospholipids; tocopherol

AM-06985 **WALKER, RICHARD B.**, Grad. Sch., Botany, Univ. Washington, Seattle, Wash.
radiolabeled iron; wheat; iron; diet; intestinal absorption; fractionation

AM-07004 **KITABCHI, ABBAS E.**, Oklahoma Med. Res. Inst., Oklahoma City, Okla.
dietary deficiency; tocopherol; adrenal cortex hormones; malonaldehyde; adrenal glands; ascorbic acid; adrenalectomy; ACTH; peroxidation; cell components; radiolabeled carbon; hydrolases; cell components..microsomes; antioxidants

AM-07027 **BORGMAN, ROBERT F.**, Sch. Agr., Clemson Col., Clemson, S.C.
gallstones; cholesterol; oleic acid; linoleic acid; diet; triglycerides; lipids; fatty acids; thyroxine; thyroxine analogs; ethanol; radiolabeled carbon

AM-07039 **SMITH, FRANK H.**, Sch. Agr., North Carolina State Col., Raleigh, N.C.
amino acid; cotton; cottonseed; proteins; radiolabeled carbon; seeds; toxicology

AM-07041 **PURSER, DOUGLAS B.**, Ohio State Univ. Res. Fdn., Columbus, Ohio
stomach..rumen; germ-free isolators; bacteria
rumen bacteria; protozoa; symbiosis

AM-07052 **DRAPER, HAROLD H.**, Grad. Sch., Univ. Illinois, Urbana, Ill.
azine; calcium; cell components..cell membrane; intestinal absorption; liver; magnesium; muscle; nucleotides; phosphorus; ribonucleic acid; strontium

AM-07054 **MULFORD, DWIGHT J.**, Univ. Kansas Med. Cr., Kansas City, Kans.
choline; diet; radiolabeled carbon; phospholipids; liver; ethanolamines; dimethylaminoethanol; methionine; betaine; amino alcohols

AM-07123 **HILL, ELDON G.**, The Hormel Inst., Univ. Minnesota, Austin, Minn.
unsaturated fatty acids; tocopherol; diet; corn oil; hemolysis; blood cells..erythrocytes; tissue; therapy

AM-07136 **NEWBERNE, PAUL M.**, Massachusetts Inst. Tech., Cambridge, Mass.
congenital abnormalities; vitamin B12; dietary deficiency; hydrocephalus; endocrine glands; infants, animals..newborn; enzymes; oxidative phosphorylation; fatty acids; oxidation; amino acid; ribonucleic acid; radiolabeled phosphorus; tritium; maternal-fetal; nervous system..peripheral nerves; pyridine; methionine; antimetabolites

AM-07253 **BLAHD, WILLIAM H.**, Sch. Med., Univ. California, Los Angeles, Cal.
radioisotopes..cesium 137; potassium; body water; tritium; body weight; body composition; geographical sites; radiation fallout; scintillation counters..whole body scintillation counter; cesium

NUTRITION (CONTD)

AM-07367 MILLER, W.J., Col. Expti. Station, Univ. Georgia, Athens, Ga.
dark adaptation; dehydratases..carbonic anhydrase; dehydrogenases..lactate dehydrogenases; dietary deficiency; fertility; growth; hair; injury..wound healing; phosphomonoesterases..alkaline phosphatase; radiolabeled zinc; sex behavior; skin; zinc

AM-07390 TANNENBAUM, STEVEN R., Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.
thiamine; dietary deficiency; oxythiamine; protein--bound amino acids; tissue respiration; ribonucleic acid; glycine; valine; glycogen; radiolabeled carbon; thyroxine

AM-07407 HILL, ROBERT McC., Mercy Inst. Biomedical Res., Denver, Colo.
thiamine; manganese; homeostasis; diet; toxicology; detoxication; radiolabeled manganese

AM-07468 DAVIS, GEORGE K., Agr. Expt. Station, Univ. Florida, Gainesville, Fla.
anemia; cooperative study; diet; geographical sites.. Costa Rica; manganese; plants; reproduction; soil

AM-07474 HOUSER, HAROLD B., Highland View Hosp., Cleveland, Ohio
instrumentation-methodology; computer analysis; multiple sclerosis; diet; lipids; adipose tissue

AM-07502 PHILLIPS, ARTHUR W., Grad. Sch. Liberal Arts, Syracuse Univ., Syracuse, N.Y.
oxidases..monoamine oxidase; serotonin; germ-free; age; tissue; microorganisms; tryptophan; pyridoxine; growth; bacteria..enterobacteria; membrane permeability; intestines ..small intestine; enzymes inhibitors..monoamine oxidase inhibitors

AM-07507 PERRY, H. MITCHELL, Jr., Sch. Med., Washington Univ., St. Louis, Mo.
trace elements; age; sex difference; ethnic groups..race; metabolic diseases; bioassay; tissue

AM-07510 CHOPRA, JOGINDER E., Pan American Hlth. Organization, Washington, D.C.
anemia; preventive medicine; geographical sites..Trinidad

AM-07532 BOYD, FRANK M., Poultry Disease Res. Cr., Athens, Ga.
bacteria..Escherichia coli; bacteria..Salmonella gallinarum; viruses..Newcastle disease virus; nutrition; therapy evaluation; poultry; amino acids; toxins; germ--free; infectious diseases; fatty acids; bile acids and salts

AM-07609 JOHNSON, B. CONNOR, Grad. Col., Univ. Illinois, Urbana, Ill.
vitamin B12; dietary deficiency; nutrients; metabolic diseases; enzymes; sulhydryls; glycogen; reductases.. glutathione reductase; phosphomutases..phosphoglucomutase; isomerases..methylmalonyl isomerase; oxidoreductases; lipoate dehydrogenase

AM-07621 KO, KWANG W., Seoul National Univ. Hosp., Seoul, Korea
calcium; homeostasis; children; geographical sites.. Korea; diet; growth factors; pregnancy; lactation; phosphorus; magnesium; vitamin D

AM-07623 KEAN, ECCLESTON A., Univ. West Indies, Mona, Kingston, Jamaica, West Indies
proteins; nutrition; plants; lipoproteins; food; radiolabeled carbon; tritium

AM-07627 HERVEY, GEORGE R., Marischal Col., Aberdeen, Scotland
feeding behavior; brain..regulatory centers; body composition; dietary deficiency; parabiosis; body weight; sensory feedback; progesterone

AM-07652 BAUMGARDT, B.R., Univ. Wisconsin, Madison, Wis.
amino acid; blood sugar; brain..appetite satiety center; brain..hypothalamus; chemoreceptors; fatty acids; gastric pouch; hunger; ketones; stomach..rumen; temperature; thermoreception

AM-07659 HILL, FREDRIC W., Col. Agr., Univ. California, Davis, Cal.
body water; colostomy; diet; intestines..colon; kidney function; radiolabeled sodium; sodium; vasopressin

AM-07665 MARGEN, SHELDON, Col. Agr., Univ. California, Berkeley, Cal.
albumins..serum albumins; diet; proteins; radiolabeled carbon; radiolabeled iodine; radiolabeled sulfur; tritium

AM-07690 STEPHENSON, E.L., Sch. Agr., Univ. Arkansas, Fayetteville, Ark.
amino acid; climate; fertilizers; genetic strains; geographical sites; growth factors; nitrogen; nutrients

AM-07709 PEARSON, WILLIAM N., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
thiamine; intestinal absorption; pyrimidine; phosphorylation; thiamine analogs; chemical structure--biological activity; diet; metabolites

AM-07713 ARNRICH, LOTTE, Iowa State Univ., Ames, Iowa
diet; proteins; amino acids; carotenes; vitamin A; intestines..small intestine

AM-07723 MARGEN, SHELDON, Col. Agr., Univ. California, Berkeley, Cal.
air displacement method; body composition; body density; body volume; bone; calcium; indicators; instrumentation; strontium

AM-07753 WILLIAMS, MARY ANN, Col. Agr., Univ. California, Berkeley, Cal.
acetates; dietary deficiency; liver; pyridoxine; radiolabeled carbon dioxide

AM-07754 KONISHI, FRANK, Sch. Home Ec., Southern Illinois Univ., Carbondale, Ill.
dehydrogenases..glucose-6-phosphate dehydrogenase; dehydrogenases..phosphogluconate dehydrogenase; epididymal fat pad; exercise; fasting; feeding; hexose monophosphate pathway; liver; photoperiodism; water

AM-07800 SMITH, JOHN T., Col. Home Ec., Univ. Tennessee, Knoxville, Tenn.
chemical structure--biological activity; diet; lipoproteins; liver; sulfur; tocopherol

AM-07851 KOWLESSAR, O. DHODANAND, Med. Cr., Seton Hall Col., Jersey City, N.J.
amino acid sequence; blood..plasma; gliadin; malabsorption syndromes; molecular weight; peptides; proteolysis; toxicology

AM-07869 ROGERS, QUITON R., Sch. Sci., Massachusetts Inst. Technology, Cambridge, Mass.
amino acid; carbon dioxide; diet; glycogen; lipids; proteins; radiolabeled carbon

AM-07928 GITLER, CARLOS, Inst. Nacional Nutricion, Mexico D.F., Mexico
intestinal absorption; amino acids; electrolytes; lipids; carbohydrates; dietary deficiency; pyridoxine; diet; proteins; selenomethionine

AM-08030 KING, KENDALL W., Sch. Agr., Virginia Polytechnic Inst., Blacksburg, Va.
amino acid; diet; body composition; stable isotope labeled nitrogen; radiolabeled carbon

AM-08051 COHEN, NATHANIEL, Mount Sinai Hosp., N.Y.C.
antibiotics; conjugates; cyanides; dietary deficiency; 2-4 dinitrophenol; folic acid; folic acid antagonists; intestinal absorption; intestines..small intestine; low calorie diet; malabsorption syndromes

AM-08115 NELSON, THOMAS E., Jr., Sch. Med., Univ. Colorado, Denver, Colo.
diet; vitamin K; dietary deficiency; proteins; sterols

AM-08119 HARPER, ALFRED E., Sch. Sci., Massachusetts Inst. Technology, Cambridge, Mass.
diet; amino acid excess; proteins; enzymes; hypophysectomy; liver; cortisone; thyroxine; growth hormones; radiolabeled carbon

AM-08121 BOZIAN, RICHARD C., Cincinnati Gen. Hosp., Cincinnati, Ohio
arachidonic acid; blood proteins..serum proteins; cell components..mitochondria; fat deficiency syndrome, hereditary; fatty acids; fatty liver; heart; hypolipemia; linoleic acid; lipoproteins; liver; oleic acid; proteins; radiolabeled carbon; unsaturated fatty acids

AM-08142 PRASAD, ANANDA S., Sch. Med., Wayne State Univ., Detroit, Mich.
zinc; intestinal absorption; growth inhibitors; diet; dwarfism; hypogonadism; malabsorption syndromes; chemotherapy; thalassemia; liver; liver cirrhosis; clays; pancreas; calcium; alcoholism; geographical sites..Africa; cooperative study

AM-08157 SOREMARK, RUNE, Harvard Sch. Dental Med., Boston, Mass.
body fluids; bone; dental structure..teeth; growth; hair; liver function; radiolabeled vanadium; vanadium

AM-08171 STOKSTAD, E.L. ROBERT, Col. Agr., Univ. California, Berkeley, Cal.
aminoimidazole carboxamides; diagnostic tests; diet; dietary deficiency; fats; folic acid; formates; formiminoglutamic acid; methionine; propionic acid; proteins; radiolabeled carbon; thyroid hormones; thyroxine; vitamin B12

AM-08176 SHAFFNER, C.S., Col. Agr., Univ. Maryland, College Park, Md.
poultry; genetic strains; obesity; growth; proteins; diet; genetics; population genetics, animal

AM-08202 CHRISTENSON, DAVID A., New York State Col. Agr., Cornell Univ., Ithaca, N.Y.
diet; proteins; gastrointestinal system; soy bean; enzymes inhibitors..trypsin inhibitors; chemical structure--biological activity; fats; malabsorption syndromes; methionine; radiolabeled carbon; epithelium

AM-08205 BENTON, DUANE A., Col. Agr., Cornell Univ., Ithaca, N.Y.
amino acid; appetite; diet; feeding behavior; glucose; growth factors; oxygen consumption; protein free diet; radiolabeled carbon

AM-08209 DAY, HARRY G., Grad. Sch., Indiana Univ., Bloomington, Ind.
boron; diet; growth factors; reproduction; trace elements

AM-08210 STOUT, FLOYD M., Sch. Agr., Oregon State Univ., Corvallis, Ore.
binding; bioassay; diet; genetics; growth; microorganisms; hair; hypochromic anemia; iron; lipids; mink; pigments; radiolabeled iron

AM-08224 COMBS, GERALD F., Sch. Agr., Univ. Maryland, College Park, Md.
amino acid; appetite; body composition; diet; nitrogen; proteins

AM-08255 GARN, STANLEY M., Fels Res. Inst., Yellow Springs, Ohio
aging; alcoholism; bone density; bone disorders; calcium; children; diet; dietary deficiency; fluorides; genetics; geographical sites..Guatemala; gonadectomy; kwashiorkor; longitudinal study; proteins; water supply

AM-08271 TEREPKA, A. RAYMOND, Univ. Rochester Med. Cr., Rochester, N.Y.
calcium; homeostasis; bone; radioisotopes..uranium; membrane permeability and transport; egg shell; vitamin D; parathyroid hormones; bone disorders

AM-08272 ZUCKER, LOIS M., Lab. Comparative Pathology, Stow, Mass.
obesity hereditary hyperglycemic; hyperlipemia; fats; diet; blood proteins..serum proteins; pyridoxine; biotin; kidney; cardiovascular system; nephrosis; insulin; endocrine glands

AM-08317 DARBY, WILLIAM J., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
malnutrition; geographical sites..Middle East; diet; infant human; children; parasitic diseases; anemia; macrocytic anemia; zinc; iron; trace elements; host--parasite; schistosomiasis; therapy evaluation; tocopherol; folic acid; growth; dwarfism; cooperative study

AM-08319 MEADER, ROLAND D., Col. Med., Omaha, Nebr.
choline; dietary deficiency; fatty liver; liver; liver cirrhosis; methionine; myocardial fibrosis; therapy

AM-08340 DULL, THEODORE A., Seton Hall Col. Med., Jersey City Med. Cr., Jersey City, N.J.
diet; proteins; gelatin; amino acids; calcium; magnesium; nitrogen; phosphorus; intestinal absorption; calcification

AM-08355 MITCHELL, GEORGE E., Jr., Col. Agr., Univ. Kentucky, Lexington, Ky.
vitamin A; carotenes; liver; kidney; tritium; diet

AM-08364 CHUNG, RONALD A., Sch. Agr., Tuskegee Inst., Tuskegee Institute, Ala.
poultry; meat; egg yolk; diet; lipids; cholesterol; fatty acids; unsaturated fatty acids; species; age; sex difference

AM-08374 WITT, NORMAN F., Col. Arts, Sci., Univ. Colorado, Boulder, Colo.
carbonyl compounds; ketoacids; metabolites; urine; diet; exercise

AM-08397 McCAY, PAUL B., Oklahoma Med. Res. Inst., Oklahoma City, Okla.
enzyme inhibitors..gulonolactone oxidase inhibitors; phospholipids; fatty acids; fractionation; chemical structure--biological activity; dietary deficiency; tocopherol

AM-08405 YANG, SHIANG PING, Col. Agr., Louisiana State Univ., Baton Rouge, La.
diet; growth factors; amino acid; food; feeding behavior

AM-08411 SHELLENBERGER, THOMAS E., Stanford Res. Inst., Menlo Park, Cal.
laboratory animals; growth; reproduction

AM-08428 MAISTERRENA, JORGE A., Hosp. Enfermedades de la Nutricion, Mexico, D. F., Mexico
goiter; diet; iodine; geographical sites..Mexico; water supply; dosage; seasonal variation; thyroid gland disorders; epidemiology

AM-08479 CARLSON, CHARLES W., Col. Agr., Biol. Sci., South Dakota State Univ., Brookings, S. D.
vitamin D resistant rickets; rickets; soy beans; vitamin D; tritium; calcium; phosphorus; intestinal absorption

AM-08480 OSTWALD, ROSEMARIE, Univ. California, Berkeley, Cal.
lipids; lysolecithins; bile acids and salts; cholesterol; hypercholesteremia; diet; tocopherol; atherosclerosis; anemia

AM-08496 MICKELSEN, OLAF, Michigan State Univ., East Lansing, Mich.
obesity; diet; body composition; morbidity; longevity

AM-08531 HILKER, DORIS M., Col. Tropical Agr., Univ. Hawaii, Honolulu, Hawaii
thiamine; enzymes; fish; diet; dietary deficiency; geographical sites..Hawaii

AM-08533 CLARK, HELEN E., Sch. Home Ec., Purdue Univ., Lafayette, Ind.
amino acids; nitrogen; proteins; diet

AM-08556 WATTS, JOHNNIE H., Sch. Home Ec., Univ. Connecticut, Storrs, Conn.
children..adolescence; diet; proteins; nitrogen; sulfur; longitudinal study

AM-08595 CASTER, WILLIAM O., Sch. Home Ec., Univ. Georgia, Athens, Ga.
lipids; fatty acids; chemical structure; diet; chemical structure--biological activity; nutrition; metabolites

AM-08603 OSBORN, MARGARET O., Col. Liberal Arts, State Univ. Iowa, Iowa City, Iowa
diet; gluten; steroids; intestines..small intestine; liver; intestinal absorption; fatty acids; oxidoreductases..monoamine oxidase

AM-08620 COCHRAN, BURT, Jr., Sch. Med., Loma Linda Univ., Los Angeles, Cal.
diabetes; therapy evaluation; diet; fasting; exercise; insulin; adipose tissue; lipids; fatty acids; lipoproteins..serum lipoproteins; lactates; pyruvates

AM-08647 BRUNGARDT, V.H., Col. Agr., Univ. Wisconsin, Madison, Wis.
fatty acids; acetates; propionic acid; stomach; perfusion; adipose tissue; muscles; nutrition; meat

AM-08667 DEBONS, ALBERT F., VETERANS Admin. Hosp., Brooklyn, N.Y. obesity; brain..hypothalamus; brain..appetite satiety center; 2-deoxy-D-glucose; antimetabolites; glucose; gold thioglucose; diabetes..alloxan diabetes; radiolabeled gold; chemoreceptors

AM-08669 SCHWARZ, KLAUS, Veterans Admin. Hosp., Long Beach, Cal.
selenium; organic compounds; dietary deficiency; therapy evaluation; toxicology; synthesis; chemical structure--biological activity; pancreatic diseases; muscular diseases; kidney disorders; heart diseases; liver diseases; cooperative study

AM-08676 MURASHIGER, TOSHIO, Univ. California, Riverside, Cal.
bioassay; growth inhibitors; medicinal plants..papaya; aging; fruit

AM-08692 WEBB, WATTS R., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
calorimetry; oxygen consumption; carbon dioxide; nitrogen balance; fats; unsaturated fatty acids; carbohydrates; proteins; steroids; thoracic surgery; hypothermia; water-electrolyte balance; trauma

AM-08699 VAN VEEN, ANDRE G., Grad. Sch. Nutr., Cornell Univ., Ithaca, N.Y.
nutrition; food processing; fermentation; microorganisms; diet; proteins

AM-08732 WOLF, GEORGE, Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.
vitamin A; adrenal cortex hormones; cholesterol; dietary deficiency; corticosterone; hydroxylases, steroid 11β--hydroxylases; sulfates; sulfating enzymes; sulfatases.. steroid sulfatase; steroid sulfates

AM-08760 ARRINGTON, L.R., Univ. Florida, Gainesville, Fla.
diet; iodine; toxicology; reproduction; lactation; infant animals; mortality; growth; thyroid function; prolactin; species; sex difference; antithyroid compounds

AM-08846 FOX, HAZEL M., Col. Agr. Home Ec., Univ. Nebraska, Lincoln, Neb.
proteins; diet; nitrogen balance; nitrogen compounds; grain; corn; wheat; rice; oats

AM-08890 LONGENECKER, J.B., Sch. Arts, Sci., Univ. Texas, Austin, Tex.
amino acid; blood..plasma; nutrition; intestinal absorption; age

AM-08929 GRANDE, FRANCISCO, Mount Sinai Hosp., Minneapolis, Minn.
low calorie diet; body weight; body composition; carbon; nitrogen balance; fats; carbohydrates; oxidation; food

AM-08949 HACKEL, DONALD B., Duke Univ. Med. Cr., Durham, N.C.
diabetes; diet; pregnancy; obesity; genetic strains; carbohydrates; laboratory facilities

AM-08997 GRAY, SEYMOUR J., Massachusetts Inst. Technology, Cambridge, Mass.
intestinal absorption; amino acids; amino acid inhibitors; reaction sites; stress; infectious diseases; antibiotics; malabsorption syndrome; metabolic diseases inborn; proteinurea; perfusion

AM-09012 NORMAN, ANTHONY W., Col. Agr., Univ. California, Riverside, Cal.
calcium; vitamin D; synthesis; tritium; cell components..cell membrane; reaction sites

AM-09015 BELL, NORMAN H., Sch. Med., Northwestern Univ., Chicago, Ill.
calcium; phosphorus; osteogenesis; bone resorption; radioisotopes..calcium 47; osteoporosis; acidosis; uremia; kidney disorders; sodium bicarbonate; androgens; estrogens; steroids; therapy evaluation; hyperparathyroidism; diagnostic tests

AM-09016 BELL, NORMAN H., Northwestern Univ. Med. Sch., Chicago, Ill.
vitamin D 3; body fluids; ion exchange and transport; lymphatic system; bile acids and salts; blood..serum; chylomicrons; proteins; binding

AM-09040 SHERBER, DANIEL A., Fordham Hospital, Bronx, New York
diet; fats; unsaturated fats; lipid mobilizing factors, pituitary; adrenal cortex hormones; ACTH; hydrocortisone; cholesterol; ascorbic acid; growth; thyroid function; infant animals

AM-09076 HUENEMANN, RUTH L., Sch. Pub. Hlth., Univ. California, Berkeley, Cal.
lipids; diet; time; adipose tissue; liver; body weight; body composition; thyroid function; endocrine glands; fats; unsaturated fatty acids; age; volunteers

AM-09127 BANHIDI, ZOLTAN F., Univ. Stockholm, Stockholm, Sweden
thiamine; thiamine pyrophosphate; metabolites; microbial culture; disulfides; thiamine analogs; antimetabolites

AM-09137 BAERTL, JUAN M., British American Hosp., Lima, Peru
malnutrition; diet; proteins; infant human; children; longitudinal study; biometry; age; geographical sites.. Peru

AM-09189 TURK, DONALD E., Clemson Univ., Clemson, S.C.
gastrointestinal disorders; intestinal absorption; nutrients; coccidiosis; radiolabeled zinc; radiolabeled calcium; radiolabeled phosphorus; radiolabeled carbon

AM-09191 NELSON, ELDON C., Oklahoma State Univ., Stillwater, Okla.
vitamin A; vitamin A acid; metabolites; chemical structure--biological activity; reaction sites; liver; radiolabeled carbon

AM-09195 BRIGGS, GEORGE M., Col. Agr., Univ. California, Berkeley, Cal.
vitamin B12; growth factors; diet; pregnancy; lactation; coenzyme A

AM-09211 BRODOFF, BERNARD N., 1255 North Ave., New Rochelle, N.Y.
conferences..international meetings; adipose tissue; obesity; travel

AM-09278 FELLERS, FRANCIS X., Children's Hosp. Med. Cr., Boston, Mass.
vitamin D; metabolites; children; reaction sites; tritium; bile ducts atresia, congenital; thyroid gland disorders; thyroid hormones; therapy evaluation; hypercalcemia

(contd)

LISTING OF GENERAL RESEARCH AREAS

NUTRITION (CONTD)

AM-09337 **CHIPAULT, JACQUES R., Grad. Sch., Univ. Minnesota, Minn.**
lipids; diet; intestinal absorption; molecular structure; antibiotics; bacteria..enterobacteria; population dynamics, microorganisms

AM-09410 **HARRIS, DANIEL L., Grad. Res. Ctr. Southwest, Dallas, Tex.**
thiamine; pyridoxine; riboflavin; folic acid; vitamin B12; mutations; phosphatases..acylphosphatase

AM-09426 **BARR, CHARLES E., Sch. Dent., Univ. Maryland, Baltimore, Md.**
osteogenesis; scurvy; ascorbic acid; dietary deficiency; ivalon; implants; injury..wound healing

AM-09622 **REINHOLD, JOHN G., Sch. Med., American Univ., Beirut, Lebanon**
zinc; dietary deficiency; diet; proteins; growth inhibitors; dwarfism; geographical sites..Iran

AM-09714 **SEIFE, BURTON, Sloan-Kettering Inst. Cancer Res., New York, N.Y.**
intestinal absorption; indicators; radioisotopes; radiolabeled barium; radiolabeled iodine

AM-09759 **McCALL, JOHN T., Mayo Fdn., Rochester, Minn.**
minerals; proteins; diet; nitrogen balance; albumins.. serum albumins; globulins; oxidoreductases..succinate oxidase; metal chelates; radiolabeled copper; radiolabeled zinc

CA-01018 **SALMON, W.D., Agr. Expt. Station, Auburn Univ., Auburn, Ala.**
carcinogenesis; choline; methionine; carcinogens; nutrition

CA-01932 **KUMMEROW, FRED A., Grad. Sch., Univ. Illinois, Urbana, Ill.**
AAF; carcinogenesis; cooking oils; corn oil; diet; fats; fractionation; heat

CA-05230 **HOMBURGER, FREDDY, Bio-Res. Inst., Cambridge, Mass.**
carcinogenesis; carcinogens; genetics; hepatoma; safrole; sex difference

CA-05630 **LANE, MONTAGUE, Col. Med., Baylor Univ., Houston, Tex.**
galactoflavin; dietary deficiency; riboflavin; neoplastic growth; hematopoiesis..erthropoiesis; iron; anemia; riboflavin nucleotides; galactoflavin nucleotides; synthesis; riboflavin analogs; enzymes

CA-06114 **SPENCER, HERTA, Sch. Med., Veterans Administration Hosp., Hines, Ill.**
diet; calcium; proteins; radiolabeled zinc; radiolabeled copper; radiolabeled molybdenum; radiolabeled magnesium; radiolabeled calcium; trace elements; chelating agents; neoplasms

CA-06219 **JAMES, G. WATSON, Med. Col. Virginia, Richmond, Va.**
pteridines; conjugates; vitamin B complex; anemia; leukemia; gout; diabetes; bioassay

CA-07052 **MICKELSEN, OLAF, Col. Home Ec., Michigan State Univ., East Lansing, Mich.**
diet; cycads; carcinogenesis; liver necrosis; toxicology; liver damage; liver neoplasms; kidney neoplasms; infants, animals; pancreas; kidney necrosis

DE-00204 **SHAW, JAMES H., Sch. Dent., Harvard Univ., Cambridge, Mass.**
bone; dental structure..teeth; dental caries; proteins; genetic strains; maternal-fetal; longitudinal study

EF-00081 **BRISKEY, ERNEST J., Univ. Wisconsin, Madison, Wis.**
meat; food processing; muscle; glycogenolysis; glycolysis; glycogen; nutrients; hydrogen--ion concentration; nucleotides; heart

EF-00094 **NICKERSON, THOMAS A., Univ. California, Davis, Cal.**
milk; food preservation; food processing; proteins denaturation

EF-00099 **FAGERSON, IRVING S., Col. Agr., U. Massachusetts, Amherst, Mass.**
fatty acids; fats; heat lability; food processing; cooking oils; oxidation

EF-00284 **SCHWEIGERT, B. S., Sch. Agr., Michigan State Univ., East Lansing, Mich.**
milk; vitamin B12; binding; proteins; fractionation; radiolabeled cobalt

EF-00302 **CONRAD, HARRY R., Ohio Agr. Exptl. Station, Wooster, Ohio**
amino acid; bacteria..rumen bacteria; diet; mammary gland; milk, proteins; radiolabeled carbon; stomach.. rumen; tritium

EF-00323 **HARRIS, LORIN E., Grad. Sch., Utah State Univ., Logan, Utah**
publications, books; animal husbandry; food

EF-00505 **POWRIE, WILLIAM D., Sch. Agr., Univ. Wisconsin, Madison, Wis.**
egg yolk; lipoproteins; proteins denaturation; chemical structure; food preservation; freeze-drying; freezing; pasteurization; carbohydrates; frozen foods; dehydrated foods

EF-00509 **VAVICH, MITCHELL G., Col. Agr., Univ. Arizona, Tucson, Ariz.**
antifertility factors; cottonseed oil; cyclopropene carboxylic acids; fats; fatty acids; growth inhibitors; lipogenic inhibitors; oleic acid; reproduction; sterculic acid; vegetable oils; vitamin B complex

EF-00529 **WHITNEY, ROBERT McL., Col. Agr., Univ. Illinois, Urbana, Ill.**
binding; calcium; magnesium; milk; proteins

EF-00539 **JONES, IVAN D., Agr. Expt. Station, North Carolina State Col., Raleigh, N.C.**
food processing; metal complexes; chlorophyll; pigments; vegetables

EF-00602 **NAWAR, WASSEF W., Col. Agr., Univ. Massachusetts, Amherst, Mass.**
food preservation; lipids; phospholipids; milk; ionizing radiation; dosage; temperature; atmosphere

EF-00689 **HACKLER, L. ROSS, New York State Agr. Expt. Station, Cornell Univ., Geneva, N.Y.**
food processing; nutrition; food quality; proteins; amino acids; legumes

EF-00727 **BRISKEY, ERNEST J., Col. Agr., Univ. Wisconsin, Madison, Wis.**
conferences..international meetings; publications; muscles; meat; food; food processing; muscle proteins

GM-05759 **TAPPEL, ALOYS L., Sch. Agr., Univ. California, Davis, Cal.**
dietary deficiency; tocopherols; lipids; peroxidation; muscular dystrophy; free radicals; cell components.. mitochondria; cell components..microsomes; cell components..cell membrane; cell components..lysosomes; enzymes; selenium; antioxidants

GM-06451 **WITT, NORMAN F., Univ. Colorado, Boulder, Colo.**
bioassay; carbohydrases; carbohydrates; hydrolysis; microorganisms; plants; polysaccharides

GM-06809 **DAIBER, F.C., Grad. Sch., Univ. Delaware, Newark, Del.**
embryology; liver; physiology; reproduction

GM-07714 **RENDIG, VICTOR V., Univ. California, Davis, Cal.**
plants; nutrients; carbohydrates; heptulose; tetritols

GM-08183 **BLACK, ARTHUR L., Sch. Vet. Med., Univ. California, Davis, Cal.**
milk; lactation; radiolabeled carbon; tritium; amino acid; casein; glutamates; Krebs cycle; metabolites; stable isotope labeled carbon; ketone bodies

GM-08246 **WARNICK, A.C., Agr. Exptl. Sta., Univ. Florida, Gainesville, Fla.**
semen; dietary deficiency; vitamin A; spermatozoa motility; fructose; citrate; nucleotidases..5'--nucleotidase; radiation effects..whole body radiation; spermatogenesis; gonadotropins; steroids; sex behavior; endocrine glands; reproductive system, male; phosphorus; fertility

GM-08732 **PFANDER, WILLIAM H., Grad. Sch. Agr., Univ. Missouri, Columbia, Mo.**
metabolic diseases; body movement; geographical sites.. Missouri; diet; veterinary medicine

GM-08869 **CHICHESTER, CLINTON O., Univ. California, Davis, Cal.**
carotenoids; oxidation--reduction; food processing; plants

GM-09091 **DOLLAR, ALEXANDER M., Col. Fisheries, Univ. Washington, Seattle, Wash.**
population dynamics, animal; nutrition; nitrogen; growth; fertility; algae..Chlorella

GM-11287 **FRENCH, DAVID H., Reed Col., Portland, Ore.**
plants; medicinal plants; ethnic groups..American Indians; food; concept; geographical sites..Oregon

GM-12356 **JOHNSON, CLARENCE M., Col. Agr., Univ. California, Berkeley, Cal.**
selenium; nutrition; alfalfa; bioassay; instrumentation--methodology; culture media; chemical structure--biological activity; toxicology

GM-12830 **LOTT, PETER F., Grad. Sch., Univ. Missouri, Kansas City, Mo.**
selenium; 1,2--diamino compounds; organic compounds; ligands; ion; food; soil; body fluids

HD-00088 **CULLEY, WILLIAM J., Muscatatuck State Sch., Butlerville, Ind.**
growth; child development; mental retardation; cerebral palsy; nutrition; diet; body weight; body build; basal metabolism

HD-00217 **TUREEN, LOUIS L., David Wohl Mem. Mental Hlth. Inst., St. Louis, Mo.**
dietary deficiency; antioxidants; genetic strains; muscular dystrophy; body weight; age; aminotransferases; electroencephalography; electromyography; neuromuscular junction; nerves..motor neurons; nerve impulse transmission; electrophysiology; muscle; steroids

HD-00372 **HOLT, L. EMMETT, Jr., Col. Med., New York Univ., New York, N.Y.**
infants (human); amino acid; nitrogen; methionine; cystine; tyrosine; phenylalanine; fats; carbohydrates; body weight; nitrogen balance

HD-00382 **WALLACE, WILLIAM M., Babies and Childrens Hosp., Cleveland, Ohio**
chlorides; body composition; fats; fatty acids; body fluids; electrolytes; proteins; growth; infant human; diabetes; pregnancy

HD-00383 **FOMON, SAMUEL J., Sch. Med., State Univ. Iowa, Iowa City, Iowa**
body composition; diet; body water; chlorides; body density; deuterium; stable isotope labeled bromine; body volume; age; sex difference; infants (human); creatinine

HD-00393 **IRVING, JAMES T., Forsyth Dental Cr., Boston, Mass.**
children; twins; diet; nutrients; computer analysis; growth; blood groups; sex difference; longitudinal study

HD-00433 **HUENEMANN, RUTH L., Sch. Pub. Hlth., Univ. California, Berkeley, Cal.**
longitudinal study; children, adolescence; body composition; adipose tissue; muscle; obesity; diet; exercise

HD-00510 WICKSTROM, JACK K., Tulane Univ., New Orleans, La.
aging; bone; primates; transplantation; tendons; bone fractures; micrography; staining; blood supply; orthopedics

HD-00514 BLATTNER, RUSSELL J., Col. Med., Baylor Univ., Houston, Tex.
vegetables; proteins; infants, human; growth; electrolytes; nitrogen balance; aminoaciduria

HD-00586 FEASTER, JOHN P., Nutrition Lab., Univ. Florida, Gainesville, Fla.
diet; fats; fetus; liver; muscle; reticuloendothelial system; lipids..serum lipids; cholesterol; phospholipids; radiolabeled carbon; fatty acids; radiation effects..whole body radiation

HD-00639 LESSER, GERSON T., New York Univ. Res. Service, Goldwater Mem. Hosp., Welfare Island, New York, N.Y.
instrumentation--methodology; body composition; adipose tissue; body water; gases..inert gases; cyclopropane; radiolabeled krypton; aging

HD-00648 WEISS, A. KURT, Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
aging; oxygen consumption; proteins; connective tissue; body water; fats; nitrogen; hydroxyproline; life cycle; genetic strains; anesthetics

HD-00738 CHOW, BACON F., Sch. Hyg., Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
D--glucitol; vitamin B12; iron; intestinal absorption; food additives; nutrients; allergens

HD-00837 LISTER, JULIUS, Boston Floating Hosp., Boston, Mass.
body composition; children; infant human; body water; potassium; radiolabeled bromine; tritium; radiolabeled potassium; basal metabolism; infant animals

HD-00855 WOSTMANN, BERNARD S., Col. Sci., Univ. Notre Dame, Notre Dame, Ind.
germ--free; gastrointestinal system; purified diet; immunology..antigens; infant animals

HD-00864 HILL, CHARLES H., North Carolina State Col. Agr., Raleigh, N.C.
bacteria..Salmonella gallinarum; immunity; diet; chickens; proteins; alfalfa; oats

HD-00977 HARMAN, DENHAM, Col. Med., Univ. Nebraska, Omaha, Nebr.
aging; longevity; antioxidants; free radicals; diet; carcinogens

HD-01013 HAFEZ, E.S.E., Col. Agr., Washington State Univ., Pullman, Wash.
infant animals..newborn; maternal--fetal; behavior; sensory mechanisms; glycogen; adipose tissue; isolation; progesterone; social space; sucking behavior; vocalization

HD-01195 NOVAK, LADISLAV P., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
children; body density; body water; creatinine; age; sex difference; obesity

HD-01202 ARMSTRONG, MARVIN D., Fels Research Institute, Yellow Springs, Ohio
blood; urine; amino acid; longitudinal study; growth; age; kidney function

HD-01206 MOORE, MARIAN E., Virginia Polytechnic Inst., Blacksburg, Va.
children; body weight; basal metabolism; exercise; longitudinal study

HD-01216 LOJKIN, MARY E., Sch. Home Ec., Univ. Massachusetts, Amherst, Mass.
diet; tryptophan; pregnancy; criteria; pyridine nucleotides

HD-01346 MILLER, SANFORD A., Massachusetts Inst. Tech., Cambridge, Mass.
infant animals..newborn; nutrition; growth; purified diet; proteins; fats; nucleotides; carcinogenesis; carcinogens; nitrosodimethylamine; fungi.. Aspergillus Flavus

HD-01375 NOVAK, LADISLAV P., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
infant human; anthropometry; age; sex difference; socioenvironment; child development; nutrition; longitudinal study; body composition

HD-01473 PRESTON, RODNEY L., Sch. Agr., Univ. Missouri, Columbia, Mo.
diet; ions..cation; ions..anion; acid--base equilibrium; sodium; growth; potassium; blood; diagnostic tests

HD-01505 ARAKAWA, TSUNEO, Fac. Med., Tohoku Univ., Sendai, Japan
metabolic disorders inborn; children; mental retardation; folic acid; vitamin B12; formiminoglutamic acid; transferases; aminoaciduria; diagnostic tests

HE-00052 KENDALL, FOREST E., Goldwater Mem. Hosp., N.Y.C.
blood coagulation; carbohydrates; cholesterol; diet; hypocholesteremia; lipids; lipids..serum lipids; lipoproteins; 17α-methyltestosterone; pituitary gland

HE-01119 JONES, RICHARD J., Sch. Med., Univ. Chicago, Chicago, Ill.
diet; lipids..serum lipids; lipoproteins, serum lipoproteins; atherosclerosis; cholesterol; phospholipids; hormones; coronary diseases ultracentrifugation

HE-01318 DAVIS, GEORGE K., Sch. Agr., Univ. Florida, Gainesville, Fla.
diet; trace elements; heart..myocardium; heart function; copper; phosphorus; enzymes; proteins; antibiotics; genetics

HE-01657 MUNTWYLER, EDWARD, State Univ. New York, Brooklyn, N.Y.
instrumentation--methodology; silica gel chromatography; 2,4--dinitrophenol; amino acids; tissue

HE-02181 ZILVERSMIT, DONALD B., Sch. Basic Med. Sci., Univ. Tennessee, Memphis, Tenn.
atherogenesis; cholesterol; lipids; proteins; nucleotides

HE-02528 FURMAN, ROBERT H., Oklahoma Med. Res. Inst., Oklahoma City, Okla.
atherosclerosis; endocrine glands; hyperlipemia; lipases.. lipoprotein lipase; lipids; lipoproteins; nutrition

HE-02577 MITCHELL, PERRY H., Sch. Med., Washington Univ., St. Louis, Mo.
autopsy; blood pressure; cadmium; cardiovascular diseases; geographical sites; kidney function; lead; radioautography; trace elements

HE-03063 KUMMEROW, FRED A., Grad. Sch., Univ. Illinois, Urbana, Ill.
atherosclerosis; fatty acids; hematin; lipids; lipoproteins; oxidation

HE-03072 PAGE, IRVINE H., Cleveland Clinic Fdn., Cleveland, Ohio
diet; hypercholesteremia; lipids..serum lipids

HE-03178 FISHER, HANS, Col. Agr., Rutgers Univ., New Brunswick, N.J.
atherosclerosis; cholesterol; corn oil; diet; fatty acids; sterols

HE-03316 BROCK, JOHN F., Sch. Med., Univ. Cape Town, Rondebosch, Cape, South Africa
atheroma; blood groups; children; diet; fats; fatty acids; gastrointestinal system; kwashiorkor; lipids..serum lipids; myocardial ischemia and hypoxia; phospholipids

HE-03515 VITALE, JOSEPH J., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
magnesium; dietary deficiency; atherosclerosis; acetylstrophanthidin; thyroid gland; protozoa..trypanosoma; primates..monkeys; iodine; atherogenesis

HE-03989 RUTSTEIN, DAVID D., Harvard Med. Sch., Boston, Mass.
lipids; arteries..aorta; tissue culture; arteriosclerosis

HE-04150 GOLDSMITH, GRACE A., Sch. Med. Tulane Univ., New Orleans, La.
lipids..serum lipids; nicotinic acid; bile acids and salts; sterols; diet

HE-04371 LOFLAND, HUGH B., Jr., Sch. Med., Wake Forest Col., Winston-Salem, N.C.
proteins; fats; diet; atherosclerosis; lipids; arteries; cholesterol; primates..monkeys

HE-04386 LUNDBERG, WALTER O., Hormel Inst., Univ. Minnesota, Austin, Minn.
lipids; menhaden oil; hypercholesteremia; dietary deficiency; polyenes; fatty acids; chemical structure--biological activity; blood cells..erythrocytes

HE-04401 GRANDE, FRANCISCO, Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.
diet; fats; cholesterol; lipids..serum lipids

HE-04520 BRUNNER, DANIEL, Government Hosp., Tel-Aviv-Jaffa, Israel
epidemiology; geographical sites..Israel; ethnic groups; cardiovascular diseases; cholesterol; coronary diseases; diagnostic tests; atherosclerosis; diabetes; obesity; vascular disorders; lipids; eye disorders; lipoproteins; glycoproteins; adults; diet; occupations

HE-04567 RUEGAMER, WILLIAM R., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
atherosclerosis; blood..plasma; cholesterol; dietary deficiency; liver; phospholipids; sex hormones; unsaturated fatty acids

HE-04697 KEYS, ANCEL, Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.
cooperative study; epidemiology; heart diseases; geographical sites..Yugoslavia; geographical sites.. Italy; geographical sites..Finland; geographical sites..Netherlands; geographical sites..Greece; occupations; smoking; diet; body weight; blood pressure

HE-04849 HUNGERFORD, GERALD F., Sch. Med., Univ. Southern California, Los Angeles, Cal.
adrenal glands; atherosclerosis; cardiovascular system; cholesterol; diet; dietary deficiency; elastic tissue; eosinophilia; magnesium; mast cells; pituitary gland

HE-05014 MOREHOUSE, MARGARET G., Sch. Med., Univ. Southern California, Los Angeles, Cal.
age; choline; dietary deficiency; fatty acids; heart; lipids

HE-05076 SCHROEDER, HENRY A., Dartmouth Med. Sch., Brattleboro, Vt.
trace elements; cardiovascular diseases; liver; kidney; water supply; geographical sites..United States; longitudinal study; hypertension (systemic); cholesterol; cadmium; lead; chromium; vanadium; tin; niobium; arsenic; germanium; antimony; manganese

HE-05196 SHIMAMOTO, TAKIO, Tokyo Med., Dent. Univ., Tokyo, Japan
arteriosclerosis; cholesterol; diet; chemotherapy; epinephrine; stress

HE-05658 WIESE, HILDA F., Children's Hosp., East Bay, Oakland, Cal.
blood vessels; endothelium; growth; children..adolescence; adults; lipids; atherosclerosis

HE-05905 BIERENBAUM, MARVIN L., N.J. State Dept. Health, Trenton, N.J.
blood; cholesterol; diet; fats; myocardial infarct; blood pressure; motivation; obesity; longitudinal study

HE-06481 KAYDEN, HERBERT J., Sch. Med., New York Univ., N.Y.C.
diet; hypercholesteremia; hyperlipemia; lipids..serum lipids; lipoproteins; myxedema; nephrosis

LISTING OF GENERAL RESEARCH AREAS

NUTRITION (CONTD)

HE-06714 **ALBRINK, MARGARET J., Sch. Med., West Virginia Univ., Morgantown, W. Va.**
triglycerides; coronary diseases; atherosclerosis; diet; carbohydrates; lipids..serum lipids; cerebrovascular disorders; body weight; diabetes; drugs

HE-06857 **LEWIS, HARVYE, Sch. Home Ec., Florida State Univ., Tallahassee, Fla.**
diet; fats; lipids..serum lipids; cholesterol; phospholipids; acetates

HE-06892 **STARE, FREDRICK J., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.**
cardiovascular disorders; siblings; ethnic groups.. Americans; genetics..population genetics, human; smoking; geographical sites..United States; geographical sites..Europe; ethnic groups..Irish; ethnic groups.. Italo--Americans

HE-06942 **SHIELDS, LORA M., Grad. Sch., New Mexico Highlands Univ., Las Vegas, N.Mex.**
diet; fats; lipids..serum lipids; blood coagulation; ethnic groups; fatty acids; triglycerides

HE-06979 **HARMAN, DENHAM, Col. Med., Univ. Nebraska, Omaha, Nebr.**
longevity; diet; stearic acid; oleic acid; linoleic acid; linolenic acid; vegetables oils
hypoxia; myocardial ischemia and hypoxia; renal ischemia and hypoxia; hepatotoxins; nephrotoxins; pancreas; fats

HE-07504 **FEIGENBAUM, ABRAHAM S., Bureau Res. Neur., Psy., Princeton, N.J.**
antibiotics; arteries..aorta; atheroma; bacteria..enterobacteria; bile acids and salts; cholesterol; diet; fats; genetics; lipids; lipids..plasma lipids; liver

HE-07508 **HILL, ELDON G., Grad. Sch., Univ. Minnesota, Austin, Minn.**
antioxidants; atherosclerosis; diet; fatty acids; hypocholesteremia; lipids; polyenes; sulfur amino acids

HE-07610 **CHANG, STEPHEN S., Sch. Agr., Rutgers Univ., New Brunswick, N.J.**
food processing; chemical structure; cooking oils; atherosclerosis; fats; polymers

HE-07730 **FARNELL, DANIEL R., Sch. Vet. Med., Auburn Univ., Auburn, Ala.**
atherogenesis; bile acids and salts; blood..serum; cholesterol; diet; fats; glucose; lipids; liver; proteins; riboflavin; starch; triglycerides; vitamins

HE-07836 **FREEDMAN, BEN, Louisiana State Bd. Hlth., New Orleans, La.**
survey; interviews; questionnaire; family; diet; atherosclerosis; autopsy; arteries; disease classification; smoking; computer analysis

HE-08005 **SCHLANT, ROBERT C., Sch. Med., Emory Univ., Atlanta, Ga.**
cholesterol; arteries..aorta; lipoproteins; atherosclerosis; radiolabeled carbon; bile acids and salts; polymers; polyamines; ligands

HE-08045 **HILKER, DORIS M., Col. Tropical Agr., Univ. Hawaii, Honolulu, Hawaii**
adrenal glands; diet; ethnic groups, Japanese; heart; hypertension (systemic); kidney; liver; renal hypertension; salts; soy bean

HE-08140 **COLLENS, WILLIAM S., Maimonides Hosp., Brooklyn, N.Y.**
atherosclerosis; cholesterol; diet; homeostasis; radiolabeled carbon; saturated fats; unsaturated fats

HE-08175 **HARMAN, DENHAM, Col. Med., Univ. Nebraska, Omaha, Nebr.**
atherosclerosis; chlorpheniramine; cholesterol; diet; fish oils; lipids..serum lipids; lipolysis; polymerization; safflower oil

HE-08176 **TURPEINEN, OSMO, Col. Veterinary Med., Helsinki, Finland**
cholesterol; coronary diseases; diet; geographical sites.. Finland; longitudinal study; saturated fats; unsaturated fats

HE-08307 **BALLOUN, S.L., Iowa State Univ., Ames, Iowa**
age; aorta; atherosclerosis; blood pressure; body weight; chickens; cholesterol; diet; heart; lipids..serum lipids; liver

HE-08408 **ARMSTRONG, MARK L., Veterans Admin. Hosp., Iowa City, Iowa**
diet; linoleic acid; atherosclerosis; cholesterol; primates.. Macaca mulatta; blood..serum; unsaturated fatty acids

HE-08418 **FILLIOS, LOUIS C., Sch. Sci., Mass. Inst. Technology, Cambridge, Mass.**
atheroma; cell components..microsomes; cell components..mitochondria; cholesterol; deoxyribonucleic acid; diet; hypercholesteremia; lipids; liver; proteins; radiolabeled phosphorus; radiolabeled sulfur; ribonucleic acid

HE-08451 **JACOBI, HERBERT P., Col. Med., Univ. Nebraska, Omaha, Nebr.**
arteries..aorta; atheroma; cholesterol; hypercholesteremia; lipolysis; lipoproteins..serum lipoproteins

HE-08460 **CARLTON, WILLIAM W., Sch. Sci., Mass. Inst. Technology, Cambridge, Mass.**
amino acid; 6-aminopropionitrile; arteries..aorta; bone disorders; cholesterol; choline; connective tissue diseases; copper; dietary deficiency; estrogens; phosphomonoesterases..alkaline phosphatases; vasa vasorum; vascular disorders

HE-08505 **SOKOLOFF, BORIS, Southern Bio-Research Inst., Florida Southern Col., Lakeland, Fla.**
ascorbic acid; cholesterol; lipases..lipoprotein lipase; serotonin; atherosclerosis; fasting; capillaries; hypercholesteremia; triglycerides; lipoproteins

HE-08649 **WONG, HARRY Y.C., Col. Med., Howard Univ., Washington, D.C.**
arteries..aorta; arteries..coronary arteries; atherosclerosis; bile acids and salts; cholesterol; cottonseed oil; diet; exercise; lipids..serum lipids; radiolabeled carbon; stress; testosterone

HE-08675 **DOYLE, JOSEPH T., Albany Med. Col., Albany, N.Y.**
adipose tissue; body composition; body water; cardiovascular diseases; glucose; hypertension, systemic; lipids; myocardial ischemia and hypoxia; obesity; tritium

HE-08755 **IMAICHI, KUNITARO, Fujikoshi Hosp., Toyama City, Japan**
lipids..plasma lipids; diet; fish; fats; low calorie diet; fatty acids; atherosclerosis; geographical sites ..Japan

HE-09040 **SWELL, LEON, Veterans Admin. Hosp., Richmond, Va.**
diet; cholesterol; fatty acids; blood..serum; tissue; atherosclerosis

HE-09346 **WOOD, PETER D., Highland-Alameda Co. Hosp., Oakland, Cal.**
cholesterol; bile acids and salts; metabolites; cholesterol esters; diet; unsaturated fats; saturated fats; exercise; feces; fractionation

HE-09357 **LOFLAND, HUGH B., Jr., Bowman Gray Sch. Med., Winston-Salem, N.C.**
age; atherosclerosis; lipids..serum lipids; cholesterol; sex difference; infant animals; radiolabeled carbon; coronary disease

HE-09419 **GUYER, KENNETH E., Med. Col. Virginia, Richmond, Va.**
vitamin K3; blood coagulation; radiolabeled carbon; binding; conjugates; membrane permeability and transport; molecular structure

HE-09492 **CARSON, J. DAVID, Univ. Pacific, Stockton, Cal.**
genetics; diet; lipids..serum lipids; cholesterol; atherosclerosis

HE-09744 **PORTMAN, OSCAR W., Med. Res. Fdn. Oregon, Portland, Ore.**
diet; lipids; atherosclerosis; primates; bile acids and salts; radiolabeled carbon; esterases; liver; blood.. plasma

NB-01536 **SWANK, ROY L., Univ. Oregon Med. Sch., Portland, Ore.**
blood circulation dynamics; diet; fats; longitudinal study; multiple sclerosis; therapy

NB-01906 **DREYFUS, PIERRE M., Mass. Gen. Hosp., Boston, Mass.**
vitamin B complex; thiamine; dietary deficiency; nervous system; transferases..transketolase; oxidoreductases.. pyruvate oxidase; oxidoreductases..α-keto-glutarate oxidase; diabetes; arsenic; poisoning

NB-02108 **EATON, H.D., Col. Agr., Univ. Connecticut, Storrs, Conn.**
cerebrospinal fluid pressure; dietary deficiency; eye..intraocular pressure; hypervitaminosis; kidney function; tocopherol; vitamin A

NB-02836 **HILL, ROBERT M., Mercy Inst. Biomed. Res., Denver, Colo.**
diet; manganese; nerves..myelination; thermoregulation; thiamine

NB-03626 **JONES, JAMES H., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.**
dietary deficiency; thiamine; oxythiamine; pyrithiamine; brain; enzymes

NB-03655 **GOLDSTEIN, NORMAN P., Mayo Assn., Rochester, Minn.**
hepatolenticular degeneration; calcium; copper; diet; penicillamine; 2,3-dimercapto-1-propanol; prednisone; ion exchange resins; longitudinal study; therapy

NB-04490 **COURSIN, DAVID B., St. Joseph Hosp., Lancaster, Pa.**
pyridoxal phosphate; nervous system..central nervous system; blood; enzymes, inhibitors; reaction rates (chemistry); pregnancy; infant, human; adults; bioassay; therapy

NB-05262 **MERTZ, EDWIN T., Purdue Univ. Res. Fdn., Lafayette, Ind.**
diet; amino acids; lipids; brain; nerves..myelination; mental retardation; phenylketonuria; metabolic diseases; phenylalanine

NB-05632 **SCOTT, MILTON L., Col. Agr., Cornell Univ., Ithaca, N.Y.**
tocopherols; selenium; cystine; muscular dystrophy; muscle proteins; intestinal absorption; nutrition; enzymes; antioxidants; lipoproteins..plasma lipoproteins; tritium; radiolabeled selenium

OH-00047 **CHISOLM, J. JULIAN, Jr., Johns Hopkins Hosp., Baltimore, Md.**
amino acid; delta-aminolevulinic acid; antimetabolites; 2,3-dimercapto-1-propanol; EDTA; heavy metals; heme; kidney..renal tubular transport; lead poisoning; penicillamine

OH-00121 **ROUSH, GEORGE, Jr., Col. Med., Univ. Cincinnati, Cincinnati, Ohio**
boron; cadmium; chromium; nickel; trace elements; age; diet; blood cells..erythrocytes; blood..plasma; geographical sites..United States; kidney function

RH-00175 **WILLIAMS, EDWIN G., Florida State Bd. Hlth., Jacksonville, Fla.**
radiation hazards; radiation effects; milk; radioisotopes.. cesium 137; radioisotopes..strontium 89; radioisotopes.. strontium 90; radioisotopes..iodine 131; geographical sites..Florida; environment; cattle; nutrition

RH-00211 CHRISTIAN, JOHN E., Purdue Univ. Res. Fdn., Lafayette, Ind.
radioisotopes..strontium 90; radioisotopes..iodine 131; radiation decontamination; radiation effects; food contamination; dosage; thyroid gland

RH-00283 REMENCHIK, ALEXANDER P., Stritch Sch. Med., Loyola Univ., Hines, Ill.
potassium; radiolabeled potassium; bioassay; body composition; anthropometry; statistics; mathematical model

RH-00354 CREGER, CLARENCE R., Col. Agr., Texas AM Univ., College Station, Tex.
radiation effects; radioisotopes..strontium 89; radioisotopes..strontium 90; poultry; embryology; growth; egg shell; egg white; egg yolk; diet; calcium; phosphorus; vitamin D3; longitudinal study

RH-00373 CALLOWAY, DORIS H., Univ. California, Berkeley, Cal.
radioisotopes..cobalt 60; radiation effects..whole body radiation; mortality; radiation protection; alfalfa; diet; fractionation; chemical structure--biological activity

WP-00484 BRADFORD, GORDON R., Col. Agr., Univ. California, Riverside, Cal.
water supply; water pollution; trace elements; geographical sites..California; soil pollution; crops

PATHOLOGY

AI-01463 MARTIN, SAMUEL P., Col. Med., Univ. Florida, Gainesville, Fla.
bacteria; blood cells..leukocytes; phagocytosis

AI-01697 McCLUSKEY, ROBERT T., New York Univ. Med. Cr., New York, N.Y.
glomerulonephritis; hypersensitivity; injections; bacteria..Streptococcus group A; M protein; lupus; toxemias (nonspecific); blood coagulation..fibrin; immunology..complement

AI-01763 BEISER, SAM M., Sch. Med., Columbia Univ., N.Y.C.
enzymes; immunology..antibodies; molecular structure; proteins

AI-01971 THOMISON, JOHN B., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
viruses..measles virus; cytopathogenic effect, viral; tissue culture

AI-02094 BENACERRAF, BARUJ, Sch. Med., New York Univ., N.Y.C.
bacterial diseases; conjugates; contact dermatitis; foreign proteins; hypersensitivity..delayed hypersensitivity; immunity; immunology..antibodies; immunology..hapten; neoplasms; phagocytosis; reticuloendothelial system

AI-02257 GUZE, LUCIEN B., Med. Cr., Univ. California, Los Angeles, Cal.
bacteria; hematocrit; hemoglobin; kidney..renal cortex; kidney..renal medulla; kidney function; pyelonephritis; therapy evaluation

AI-03188 KENT, SIDNEY P., Univ. Alabama Med. Cr., Birmingham, Ala.
cancer; immunofluorescence; immunology..antibodies; mucin; ovum; tissue

AI-03310 KALMANSON, GEORGE M., Veterans Admin. Hosp., Los Angeles, Cal.
pyelonephritis; bacteriuria; immunology..antibodies; microbial culture; diagnostic tests; longitudinal study; immunological tests

AI-03344 FRENKEL, JACOB K., Sch. Med., Univ. Kansas, Kansas City, Kansas
ACTH; adrenal cortex hormones; deoxycorticosterone; hyperadrenalism; hypoadrenalism; immunity; infectious diseases

AI-03598 RUEBNER, BORIS H., Sch. Med., The Johns Hopkins Univ., Baltimore, Md.
hepatitis, mouse hepatitis; cytopathogenic effect, viral; Kupffer cells; liver damage

AI-03599 WELSH, RONALD A., Sch. Med. Louisana State Univ., New Orleans, Louisana
cell components..cytoplasm; blood cells..plasma cells; blood cells..lymphocytes; inflammation; immunology..antigen-antibody reactions; hormones; antimetabolites; radiation effects; mucopolysaccharides; staining

AI-03877 LOW, DONALD G., Col. Vet. Med., Univ. Minnesota, Minneapolis, Minn.
leptospirosis; kidney function; liver function; antidiuretics; hormones; renal failure; water-electrolyte balance; blood coagulation..antithrombin; hemorrhage; dogs; veterinary medicine

AI-04037 TUTTLE, ELBERT P., Jr., Sch. Med., Emory Univ., Atlanta, Ga.
kidney disorders; immunofluorescence; microbial culture; kidney; blood; urine; autopsy; immune sera

AI-04038 LINDNER, ANTON, Sch. Med., U. Oklahoma, Oklahoma City, Okla.
sarcoidosis; pollen; pine trees; granuloma; epithelium

AI-04039 BEAVER, DAVID L., Sch. Med., Vanderbilt Univ. Hosp., Nashville, Tenn.
viruses..herpes simplex virus; encephalitis; bismuth; kidney; ganglion, nervous system; disease transmission; nervous system..central nervous system

AI-04353 SKINSNES, OLAF K., Sch. Med., Univ. Chicago, Chicago, Ill.
bone disorders; foot; hand; leprosy; nerves degeneration

AI-04415 SPINK, WESLEY W., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
endotoxins; vasoactive agents..vasopressors; histamine; immunology..complement; glucocorticoids; aldosterone; angiotensin; therapy evaluation; primates..monkeys; catecholamines

AI-04527 ANDRES, GIUSEPPE A., Sch. Med., Univ. di Roma, Roma, Italy
ferritin labeled antibody technique; glomerulonephritis; immunology..antigen-antibody reactions; immunofluorescence; immunology..antigens; bacteria..streptococcus; gamma globulin; inflammation; kidney..glomerulus

AI-04650 BOGGS, JOSEPH D., Sch. Med., Northwestern Univ., Evanston, Ill.
hepatitis..infectious hepatitis; liver function tests; diagnostic tests; viremia; disease transmission; hemagglutination; blood cells..erythrocytes; primates..Macaca mulatta; blood donors

AI-04819 HARDEN, K. ALBERT, Col. Med., Howard Univ., Washington, D.C.
beryllliosis; collagen diseases; hematology; histoplasmosis; hypersensitivity; pulmonary function; pulmonary heart disease; sarcoidosis; therapy evaluation; tuberculosis; virus-like particles

AI-04889 SORENSON, GEORGE D., Sch. Med., Washington Univ., St. Louis, Mo.
foreign body; hematopoiesis; immunology..antigens; infectious diseases; lymphatic tissue; neoplasms

AI-04966 FELDMAN, JOSEPH D., Scripps Clin. Res. Fdn., La Jolla, Cal.
contact dermatitis; electron microscopy; hypersensitivity..delayed hypersensitivity; immunology..antigen-antibody reactions; reticuloendothelial system; transplantation rejection; tritium; tuberculin hypersensitivity

AI-05153 GOOD, ROBERT A., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
electron microscopy; immunology..antigens; immunology..antigen--antibody reactions; immunology..antibodies; lymph nodes; tritium; thymus; bovine serum albumin; silver

AI-05154 GALE, DAVID, Grad. Sch., Univ. New Mexico, Albuquerque, N. Mex.
hypercholesteremia; lipemia; tuberculosis; bacteria..mycobacteria (atypical); genetic strains; diet; immunity; morbidity

AI-05271 GABRIELI, E. EMER R., E.J. Meyer Mem. Hosp., Buffalo, N.Y.
diagnostic tests; hemoglobin; injections; reticuloendothelial system

AI-05850 VAZQUEZ, JACINTO J., Duke Univ. Med. Cr., Durham, N.C.
amino acid; gamma globulin; hypersensitivity; hypersensitivity..delayed hypersensitivity; immunity..autoimmunity; immunology..antibodies; immunology..antigen-antibody reactions; immunology..antigens; proteins; radiation effects; reaction sites; ribonucleic acid; x-rays

AI-06261 DANNENBERG, ARTHUR M., Jr., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
tuberculosis; immunity; hypersensitivity; hydrolases; macrophages; genetic strains; drugs; enzyme inhibitors; proteases, lipases; esterases; nucleases; carbohydrases..lysozyme; injuries

AI-06474 KENYON, ALAN J., Univ. Connecticut, Storrs, Conn.
Aleutian mink disease; blood proteins..serum proteins; Bence--Jones protein; vascular disorders; disease transmission; immunology..antibodies

AI-06477 LEADER, ROBERT W., Col. Vet. Med., Washington State Univ., Pullman, Wash.
inflammation; Aleutian mink disease; arteries; bile ducts; liver; kidney

AI-06584 ADAMS, W. ROBERT, Sch. Med., Yale Univ., New Haven, Conn.
molecules..macromolecules; cell components..organelles; ribonucleic acid; proteins; orotic acid; viruses..Newcastle disease virus

AI-06591 PADGETT, GEORGE A., Washington State Univ., Pullman, Wash.
Chediak--Higashi syndrome; genetics..genes; blood cells..leukocytes; phagocytosis; Aleutian mink disease; bacterial diseases

AI-06797 VERNIER, ROBERT L., Sch. Med., Univ. California, Los Angeles, Cal.
immunology; electron microscopy; proteins; heavy metals; endothelium permeability and transport; amino acid

AM-00022 SILBERBERG, MARTIN, Sch. Med., Washington Univ., St. Louis, Mo.
joints diseases..degenerative joint disease; nutrition; hormones; thyroid hormones; androgens; skeleton; growth; aging; arthritis..osteoarthritis; diabetes..alloxan diabetes; obesity; gold thioglucose; genetic strains; propylthiouracil; unsaturated fatty acids

AM-00289 SCOTT, EARL B., Sch. Med., Univ. South Dakota, Vermillion, S.D.
amino acids; valine; dietary deficiency; aging; tissue; kidney disorders; lysine; leucine

AM-00302 LANGE, KURT, New York Med. Col., New York, N.Y.
immunology; bacteria..Streptococcus pyogenes; immunofluorescence; kidney; glomerulonephritis; therapy; necrosis; steroids; kidney function; lupus erythematosus..systemic lupus erythematosus; glomerulonephritis familial

(contd)

LISTING OF GENERAL RESEARCH AREAS

PATHOLOGY (CONTD)

AM-00502 **BERMAN, DAVID T., Grad. Sch., Univ. Wisconsin, Madison, Wis.**
endocarditis; arthritis; bacteria..erysipelothrix insidiosa; immunology..antigens; immunology..autoantibodies; connective tissue; anaphylaxis

AM-00583 **PENNER, ABRAHAM, Mount Sinai Hosp., N.Y.C.**
amidases..histidase; ergot alkaloids; liver damage; propenol

AM-00645 **GREENBERG, LOUIS D., Sch. Med., Univ. California, San Francisco, Cal.**
nutrition; dietary deficiency; fatty acids; pyridoxine; choline; arteriosclerosis; primates..monkeys; lipids.. serum lipids; blood cells..erythrocytes; blood..plasma; coronary diseases; phospholipids; hypercholesteremia

AM-00823 **RICHTER, GOETZ W., Sch. Med., Cornell Univ., New York, N.Y.**
hemoglobin; hemosiderin; ferritin; anemia; proteins; iron; cell; intestinal absorption; serology; HeLa cells; apoferritin; neoplastic cells

AM-00918 **CHURG, JACOB, Mount Sinai Hosp., New York, N.Y.**
kidney disorders; glomerulonephritis; electron microscopy; kidney..glomerulus; basement membrane; epithelium; diabetes; nephrosis; glomerulosclerosis

AM-00937 **MOWRY, ROBERT W., Univ. Alabama Med. Cr., Birmingham, Ala.**
amyloid substance; birefringence; carbohydrates; cartilage; connective tissue; epithelium; fungi..Cryptococcus neoformans; fungi..Histoplasma capsulatum; gastrointestinal system; kidney disorders; mucin; neoplasms; polysaccharides; rheumatic diseases; skin

AM-00968 **PIRANI, CONRAD L., Sch. Med., Univ. Illinois, Chicago, Ill.**
connective tissue; arthritis; blood proteins..serum proteins; scurvy; proteases..papain; amyloidosis; blood cells..reticulocytes; kidney; binding; eye..cornea; skin; proteins; ions; vitamin A; potentials..membrane potentials; thermodynamics

AM-01120 **SIKES, DENNIS, Sch. Vet. Med. Univ. Georgia, Athens, Ga.**
bacteria..Erysipelothrix rhusiopathiae; arthritis..rheumatoid-like arthritis; bone..spine; bone..femur; joints; immunity; cross immunity; longitudinal study; arthritis, polyarthritis

AM-01226 **LACY, PAUL E., Sch. Med., Washington Univ., St. Louis, Mo.**
amino acid; chemical structure; hypoglycemic agents; immunofluorescence; immunology..antibodies; insulin; pancreas; pancreas neoplasms; pinocytosis; tolbutamide

AM-01286 **PEARSON, CARL M., Sch. Med., Univ. California, Los Angeles, Cal.**
adjuvants..Freund's adjuvant; arthritis; diet; endotoxins; hypersensitivity..delayed hypersensitivity; proteins

AM-01393 **MUELLER, C. BARBER, Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.**
renal failure; electrolytes; injury; hypertension

AM-01427 **DASLER, WALDEMAR, Chicago Med. Sch., Chicago, Ill.**
connective tissue; lathyrism; β-aminopropionitrile; hydroxyproline; collagen

AM-01625 **FERGUSON, ALBERT B., Jr., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
alloys; metal; ion; bone; cartilage; regeneration

AM-02188 **ANDERSON, MARION C., Sch. Med., Northwestern Univ., Chicago, Ill.**
adrenal cortex hormones; blood; blood vessels; edema (generalized); enzymes; injury; pancreas; pancreatitis; proteases

AM-02203 **VOLK, BRUNO W., Jewish Chronic Dis. Hosp., Brooklyn, N.Y.**
carbohydrates; diet; electron microscopy; enzymes; growth hormones; hyperglycemia; islands of Langerhans.. beta cells; proteins; therapy

AM-02215 **FERREBEE, J.W., Mary Imogene Bassett Hosp., Cooperstown, N.Y.**
transplantation..homotransplantation; bone marrow transplantation; radiation effects..whole body radiation; bone marrow diseases; antibiotics; blood transfusion; transplantation immunology; therapy; radiation protection

AM-02349 **KULKA, JOHANNES P., Robert B. Brigham Hosp., Boston, Mass.**
microcirculation; freezing; inflammation; vasoactive agents; electrolytes; hypersensitivity; anti--inflammatory agents; blood vessels vasomotion; rheumatic diseases; arthritis

AM-02520 **STEPHENS, CHARLES A.L., Jr., Univ. Arizona, Tucson, Ariz.**
arthritis..rheumatoid arthritis; blood cells..lymphocytes; hypersensitivity; synovial membranes; tissue culture

AM-02540 **TAFT, EDGAR B., Mass. Gen. Hosp., Boston, Mass.**
carbon tetrachloride; instrumentation-methodology; liver; liver cirrhosis; liver diseases; liver neoplasms; longitudinal study; regeneration; viruses..mouse hepatitis virus

AM-02692 **BAHN, ROBERT C., Mayo Assn., Rochester, Minn.**
pituitary gland; pituitary hormones; pituitary neoplasms; cell types; cytology

AM-02767 **NICHOLS, JOHN M., Univ. Kansas Med. Cr., Kansas City, Kans.**
adrenal glands; pituitary gland; DDD; isomers; DDD analogs

AM-02848 **MacINTYRE, WILLIAM J., University Hosps. Cleveland, Cleveland, Ohio**
liver diseases; liver function; liver cells; radiolabeled iodine; radiolabeled gold; reticuloendothelial system; liver circulation; blood flow; endotoxins; colloids

AM-02850 **MORRIONE, THOMAS G., Long Island Col. Hosp., Brooklyn, N.Y.**
collagen; pregnancy..postpartum; uterus; proteases, injury ..wound healing

AM-02862 **FISCHER, WILLIAM B., Wesley Memorial Hosp., Chicago, Ill.**
culture media; mucopolysaccharides; synovial membranes; synovitis

AM-02923 **GOYER, ROBERT A., Sch. Med., St. Louis Univ., St. Louis, Mo.**
8--(3--diethyl aminopropylamino) --6--methyoxquinoline; aminotransferases; amino acid; taurine; muscular diseases; glycogen; dietary deficiency; phosphorylases; oxidases; muscle necrosis; myocardial necrosis, non-infarctional

AM-02967 **GUEFT, BORIS, Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.**
blood proteins..plasma proteins; amyloidosis; immunology ..antibodies; gamma globulin; alpha globulin; amyloid substance; amino acids; hepatolenticular degeneration; inclusion bodies; lead poisoning; bunamiodyl; toxicology

AM-03154 **GIBBS, GORDON E., University Hosp., Omaha, Nebr.**
pancreatic cystic fibrosis; sweat glands; oxidoreductases.. cytochrome oxidases; oxidoreductases..succinate dehydrogenase; phosphomonoesterases..phosphatidate phosphohydrolase; oxidoreductases..malate dehydrogenase; aldolases; glycosyltransferases..purine nucleoside phosphorylase; reductases..cytochrome C reductase; mucoproteins; phosphotransferases..ATP : diglyceride phosphotransferase; carbohydrases..neuraminidase

AM-03229 **HOMBURGER, FREDDY, Bio-Research Inst., Cambridge, Mass.**
uterus..endometrium; latent bacterial diseases

AM-03400 **KRIKOS, GEORGE A., Sch. Dent., Univ. Pennsylvania, Philadelphia, Pa.**
bone; connective tissue; dental structure; diet; fibrogenesis; lathyrism; osteoporosis; stress

AM-03517 **RITTENBURY, MAX S., Med. Col. Virginia, Richmond, Va.**
antimetabolites; bioassay; blood coagulation..plasmin; body fluids; drugs; fractionation; hemorrhage; hyperthermia; lipoproteins; pancreas; pancreatitis; perfusion; proteases..carboxypeptidase A; proteases..cathepsins; proteases..chymotrypsin; proteases..trypsin; proteins; toxins

AM-03605 **DEANE, HELEN W., Yeshiva Univ., New York, N.Y.**
enzymes; hydrolases; steroid hormones; kidney..renal tubules; LH; ovary; esterases; pituitary hormones; dehydrogenases..delta 5, 3β--hydroxysteroid dehydrogenase; dehydrogenases..sorbitol dehydrogenase; gonadotropins; seminal vesicles; adrenal glands

AM-03664 **PEACOCK, ERLE E., Jr., Univ. North Carolina, Chapel Hill, N.C.**
collagen; injury..scars; injury..wound healing; keloids; polymerization; tensile strength

AM-03846 **POPPER, HANS, Mount Sinai Hosp., N.Y.C.**
liver damage; carbon tetrachloride; ethionine; immunology..antigen-antibody reactions; liver necrosis; toxicology; hepatitis; liver cells; polysaccharides; fatty liver; bile

AM-03861 **DUNN, MARVIN R., Woman's Med. Col., Philadelphia, Pa.**
liver cirrhosis; liver diseases; fatty liver; liver cells; choline; dietary deficiency; nervous system.. sympathetic nervous system; carbon tetrachloride; adrenalectomy; phenoxybenzamine; collagen

AM-03932 **OWEN, CHARLES A., Mayo Assn., Rochester, Minn.**
liver; copper; liver cirrhosis; hepatolenticular degeneration; ceruloplasmin; liver function; radiolabeled copper; albumins

AM-03997 **EALES, LENNOX, Univ. Cape Town Med. Sch., Observatory, Cape, South Africa**
porphyria; porphyrins; urine; feces; radiolabeled

AM-04146 **MARBLE, ALEXANDER, Harvard Med. Sch., Boston, Mass.**
diabetic angiopathy; diabetic retinopathy; diabetic nephropathy; microcirculation; arteries..arterioles; capillaries; eye.. conjunctiva; ear; kidney; hypophysectomy; therapy evaluation; phototherapy

AM-04159 **HOWES, EDWARD L., Hartford Hosp., Hartford, Conn.**
arteriosclerosis; collagen; proteases..collagenase; transplantation..autotransplantation; transplantation..homotransplantation; regeneration; elastic tissue; proteases.. elastase; collagen diseases; hemorrhage

AM-04165 **GOTTLIEB, LEONARD S., Boston City Hosp., Boston, Mass.**
electron microscopy; gastrointestinal system; mucous membrane; pernicious anemia; carcinoma; cholesterol; intestinal absorption; atherosclerosis; mast cells neoplasms; histamine; serotonin; heparin; liver cells; liver cirrhosis; ganglion, nervous system, spinal ganglion

AM-04213 **SILBERBERG, MARTIN, Sch. Med., Washington Univ., St. Louis, Mo.**
aging; arthritis..osteoarthritis; cartilage; diet; genetic strains; hormones; joints; proline; radiolabeled; radiolabeled sulfur

AM-04365 **FRIEDERICI, HARTMANN H.R., Col. Med., Univ. Illinois, Chicago, Ill.**
skin; capillaries; skin diseases; endothelium permeability; histamine; serotonin; body temperature; heart failure; membrane permeability and transport; kidney disorders; edema (generalized)

AM-04367 **HOFFBAUER, FREDERICK W., Minneapolis Gen. Hosp., Minneapolis, Minn.**
blood..serum; choline; diet; dietary deficiency; fats; fatty liver; liver; liver cirrhosis; lipids; primates.. baboons

AM-04387 **GRADY, HUGH G., Sch. Med., Seton Hall Col., Jersey City, N.J.**
alcoholism; liver; nutrition; ethanol; vitamin; proteins; hypervitaminosis; liver function; cell components

AM-04388 **YARDLEY, JOHN H., Johns Hopkins Hosp., Baltimore, Md.**
collagen; fibroblasts; mucopolysaccharides; scurvy; ascorbic acid; ground substance; regeneration

AM-04437 **LEEVY, CARROLL M., Col. Med., Seton Hall Col., Jersey City, N.J.**
alcoholism; anesthetics; biotin; blood..serum; blood disorders; body fluids; deoxyribonucleic acid; dietary deficiency; ethanol; liver; pantothenic acid; pernicious anemia; tissue; vitamin

AM-04459 **MARKOWITZ, ABRAHAM S., Hektoen Inst. Med. Res., Chicago, Ill.**
glomerulonephritis; immunology..antigens; bacteria..Streptococcus; genetic strains; immune sera; kidney..glomerulus

AM-04525 **BRAS, GERRIT, Sch. Med., Univ. West Indies, Kingston, Jamaica, West Indies**
liver cirrhosis; venous occlusions; Crotalaria; toxins; milk; geographical sites..Jamaica

AM-04568 **TURNER, M. DON, Univ. Mississippi Med. Cr., Jackson, Miss.**
pancreas; radiolabeled; amino acid; enzymes; cell components..mitochondria; cell components..microsomes; ultracentrifugation; electrophoresis; ischemia; hypoxia

AM-04593 **SHELDON, WALTER H., Johns Hopkins Hosp., Baltimore, Md.**
infectious diseases; inflammation; immunity; cell; mucormycosis; Pneumocystis pneumonitis; bacterial diseases; age

AM-04748 **YEAGER, VERNON L., Univ. North Dakota, Grand Forks, N.D.**
β-aminopropionitrile; lathyrism; bone..periosteum; exostoses; toxicology

AM-04818 **GREENSPAN, FRANCIS S., Sch. Med., Univ. California, San Francisco, Cal.**
goiter; thyroidectomy; thyroid function; radiolabeled iodine; thyrotropin; thyronine; enzymes; immunology.. antibodies; thyroid hormones; thyroid gland

AM-04826 **MARTIN, GEORGE M., Sch. Med., Univ. Washington, Seattle, Wash.**
ceruloplasmin; enzymes; hepatolentidular degeneration; genetics; phosphomonoesterases..alkaline phosphatase; mutation; hypophosphatasia

AM-04920 **JONES, RUSSELL S., Sch. Med., Univ. Utah, Salt Lake City, Utah**
mucopolysaccharides; radiolabeled carbon; electrolytes; adrenal cortex hormones; bacteria; blood proteins.. plasma proteins; rheumatic fever; arthritis; immunity.. cross immunity; immunology..antigens; polysaccharides

AM-04921 **HUNT, THOMAS E., Univ. Alabama Med. Cr., Birmingham, Ala.**
thymidine; radioautography; tritium; pituitary gland; cell division..mitosis; regeneration; adrenal glands; estrus cycle; pregnancy; diurnal variation; deoxyribonucleic acid

AM-04929 **LINDNER, ANTON, Univ. Oklahoma Med. Cr., Oklahoma City, Okla.**
dietary deficiency; stomach..gastric juice; oxidoreductases; magnesium; potassium; muscle; dehydratases.. carbonic anhydrase

AM-04944 **RAWNSLEY, HOWARD M., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
blood proteins..serum proteins; liver diseases; albumins.. serum albumins; liver cirrhosis; carbon tetrachloride; immunology..autoantibodies; gamma globulin

AM-05058 **ANTONOVYCH, TATIANA T., Sch. Med., Georgetown Univ., Washington, D.C.**
electron microscopy; kidney..glomerulus; synovial membrane; therapy; adrenal cortex hormones; membrane permeability and transport; meninges..choroid plexus; kidney disorders; liver diseases

AM-05082 **COLES, EMBERT H., Sch. Vet. Med., Kansas State Univ., Manhattan, Kans.**
peptic ulcer; keratinization; stomach; stress; mucous membrane; feeding; ACTH

AM-05083 **WAKIM, K.G., Mayo Clinic, Rochester, Minn.**
ACTH; cholesterol; cholesterol inhibitors; heparin; hypercholesteremia; hyperlipemia; lipids; nephrosis; nicotinic acid; triparanol

AM-05243 **FRENCH, SAMUEL W., Univ. California Med. Cr., San Francisco, Cal.**
oxidoreductases..choline oxidases; oxidoreductases.. alcohol dehydrogenase; pyridoxines; riboflavin; choline; dietary deficiency; alcoholism; nutrition; fatty liver; liver cirrhosis; liver; oxidoreductases..NADH2 diaphorase; oxidoreductases..isocitrate dehydrogenase; oxidoreductases..succinate dehydrogenase; oxidoreductases.. lactate dehydrogenase; oxidoreductases..NADPH2 diaphorase; oxidoreductases..cytochrome oxidases; cell components..mitochondria; oxidoreductases..β--hydroxybutyrate dehydrogenase

AM-05336 **SHAKA, JAMES A., Mallory Inst. Pathology, Boston, Mass.**
cell division..mitosis; deoxyribonucleic acid; kidney; liver; nephrectomy; pancreas; radioautography; regeneration; tritium

AM-05397 **WEAVER, ROBERT G., Sch. Med., Univ. Utah, Salt Lake City, Utah**
gastrointestinal motility; hydrodynamics; hydronephrosis

AM-05398 **GLOTZER, DONALD J., New England Cr. Hosp., Boston, Mass.**
intestines..colon; colitis..ulcerative colitis; bacteria

AM-05514 **BENSCH, KLAUS G., Sch. Med., Yale Univ., New Haven, Conn.**
adipose tissue; connective tissue; metabolic diseases; tissue culture

AM-05516 **SOBEL, HAROLD J., Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.**
thyroid gland; thyroid hormones; cell components.. Golgi apparatus; cell components..cell membrane; pituitary gland

AM-05556 **FITZGERALD, PATRICK J., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.**
ethionine; hepatectomy; liver; nucleotides; pancreas; pancreatectomy; regeneration; thymidine; tritium

AM-05559 **KLAVINS, JANIS V., Sch. Med., Duke Univ., Durham, N.C.**
amino acid excess; methionine; phenylalanine

AM-05602 **GOLDEN, ABNER, Sch. Med., Georgetown Univ., Washington, D.C.**
pituitary gland; pituitary hormones; cell type; electron microscopy

AM-05612 **CHAMOVITZ, ROBERT, Montefiore Hosp., Pittsburgh, Pa.**
endotoxins; colitis; nervous system..autonomic nervous system; nervous system..sympathetic nervous system

AM-05644 **FARBER, EMMANUEL, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
fatty acids; amino acids; nucleic acids; liver neoplasms; histogenesis; kidney necrosis; oxidoreductases; nucleotides; liver necrosis

AM-05728 **ANDRADE, CORINO, St. Antonio Hosp., Porto, Portugal**
geographical sites..Portugal; amyloidosis; genetics; genetics..population genetics, human; body fluids; endocrine glands disorders; cardiovascular diseases; metabolites; proline; hydroxyproline; aminotransferases

AM-05748 **WELSH, GEORGE W., Sch. Med., Univ. Vermont, Burlington, Vt.**
diabetes; genetics; basement membrane; kidney.. glomerulus; glucose; hyperglycemia; capillaries; animal facilities; islands of Langerhans

AM-05749 **GIBBS, GORDON E., Univ. Nebraska Hosp., Omaha, Nebr.**
sweat glands; pancreatic cystic fibrosis; mucopolysaccharidosis; skin; radiolabeled iodine; radiolabeled sulfur; electrolytes; mucoproteins; radiolabeled phosphorus; sodium; phospolipids

AM-05759 **HELLMAN, BO, Sch. Med., Univ. Uppsala, Uppsala, Sweden**
islands of Langerhans..alpha cells; carbohydrates; enzymes; glucagon; diabetes..alloxan diabetes; genetics; paper chromatography; hyperglycemia; radiolabeled carbon; glucose; insulin; radiation counters; islands of Langerhans..beta cells

AM-05801 **EDMONDSON, HUGH A., Los Angeles County Hosp., Los Angeles, Cal.**
liver cirrhosis; blood vessels; immunology..antibodies; liver; hepatitis; fatty liver; alcoholism; liver diseases; fats

AM-05830 **PAGE, ARTHUR R., Univ. Minnesota, Minneapolis, Minn.**
anti-inflammatory agents; antimetabolites; blood cells..lymphocytes; inflammation; 6-mercaptopurine parathyroid glands; renal rickets; osteosclerosis

AM-05913 **HUTH, EDWARD J., Woman's Med. Col., Philadelphia, Pa.**
renal failure; nephrectomy; bone disorders; acidosis;

AM-05922 **HIRSCHMAN, ALBERT, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.**
binding; bone..epiphyses; calcification; cartilage; connective tissue; cytology; joints; mucopolysaccharides; muscoproteins; trachea

AM-05986 **KENT, GEOFFREY, West Suburban Hosp., Oak Park, Ill.**
iron storage diseases; iron; liver cells; hepatotoxins; cell components; cell age; collagen; pancreas

AM-06014 **MORRISON, ASHTON B., Sch. Med., Univ. Rochester, Rochester, N.Y.**
renal failure; nephrectomy; skeleton; tissue

AM-06040 **OLSON, NORMAN O., Col. Agr., West Virginia Univ., Morgantown, W.Va.**
arthritis; aging; synovial fluid; bacteria..Mycoplasma; hypersensitivity; immunity

AM-06074 **LATTA, HARRISON, Sch. Med., Univ. California, Los Angeles, Cal.**
electron microscopy; kidney disorders; membrane permeability; stress

AM-06123 **MAGER, JACOB, Hebrew Univ.-Hadassah Med. Sch., Jerusalem, Israel**
lathyrism; lathyrogenic agents; connective tissue diseases; elastin; trace elements; collagen; copper; bone disorders; toxicology; proteins; mucopolysaccharides

AM-06178 **SHACKLEFORD, JOHN M., Univ. Alabama Med. Cr., Birmingham, Ala.**
pancreatic cystic fibrosis; mucopolysaccharides; carbohydrates; electron microscopy; salivary glands

(contd)

LISTING OF GENERAL RESEARCH AREAS

PATHOLOGY (CONTD)

AM-06190 **HOMBURGER, FREDDY**, Bio-Res. Inst., Cambridge, Mass.
muscle protein; collagen; muscular dystrophy; lipoproteins; serum lipoproteins; glycoproteins; tocopherol; diet; hormones; heart..myocardium; myocardial necrosis (noninfarctional)

AM-06218 **KELSALL, MARGARET A.**, Cleveland Psychiatric Inst., Cleveland, Ohio
peptic ulcer; genetics; Brunner glands; lymphatic tissue; gastrointestinal disorders; stress; blood cells; mast cells; blood cells..eosinophil leukocytes; enterochromaffin

AM-06339 **SHWACHMAN, HARRY**, Children's Cancer Res. Fdn., Boston, Mass.
pancreatic cystic fibrosis; mucopolysaccharidosis; diagnostic tests; mucoproteins; proteins; carbohydrates; binding; bile pigments; mucus; gallbladder; tolbutamide; islands of Langerhans; blood sugar

AM-06429 **ALVIZOURI, MARIO**, Hosp. Civil, Morelia, Mich., Mexico
ethionine; screening; pancreatic diseases; pancreas; enzymes; N--acetyl--methionine; pancreatitis

AM-06444 **LALICH, JOSEPH J.**, Sch. Med., Univ. Wisconsin, Madison, Wis.
B--aminopropionitrile; diet; hydrazines; bone disorders; vascular disorders; lathyrism; proteins; amino acids; bone necrosis

AM-06490 **TOUSSAINT, DANIEL**, Medical Queen Elisabeth Fdn., Brussels, Belgium
diabetic retinopathy; aneurysms; growth hormones; cortisone; proteases, trypsin; pancreas

AM-06576 **PIEL, CAROLYN F.**, Univ. California Med. Cr., San Francisco, Cal.
gamma globulin; genetics; kidney..renal tubules; kidney function; medullary sponge kidney

AM-06577 **DIXON, FRANK J.**, Scripps Clinic, Res. Fdn., La Jolla, Cal.
Aleutian mink disease; hyperglobulinemia; periarteritis nodosa; glomerulonephritis; lupus erythematosus; hemorrhagic disease; hyperplasia; blood cells..plasma cells; immunology..antibodies; viruses; immunology.. antigen--antibody reactions; immunofluorescence; hematology; neoplastic cells

AM-06579 **HOPPER, JAMES Jr.**, Sch. Med., Univ. California, San Francisco, Cal.
glucocorticoids; kidney disorders; nephrosis; prednisone; therapy

AM-06590 **WONG, RUTH L.**, Col. Med., Univ. Illinois, Chicago, Ill.
carcinogens; gastrointestinal disorders; injury; irritants; mucous membrane; regeneration; reserpine

AM-06591 **PIEL, CAROLYN F.**, Univ. California Med. Cr., San Francisco, Cal.
carbohydrases..hyaluronidase; hydration (body fluids); infants (animals)..newborn; kidney..renal tubules; kidney function; mucopolysaccharides; ribonucleic acid; tritium; vasopressin

AM-06597 **CARLSON, WILLIAM D.**, Sch. Vet. Med., Colorado State Univ., Fort Collins, Colo.
elbow dysplasia; genetics

AM-06626 **JANIGAN, DAVID T.**, Univ. Kansas Med. Cr., Kansas City, Kans.
amyloidosis; foreign proteins; reticuloendothelial system; casein; oxidoreductases; phosphatases; hydrolases; phagocytosis; thorotrast; iron oxide

AM-06635 **BOHROD, MILTON G.**, Rochester Gen. Hosp., Rochester, N.Y.
lathyrism; lathyrogenic agents; bone disorders; thyroid gland disorders; aneurysms; species

AM-06636 **TUBIS, MANUEL**, Veterans Admin. Cr., Los Angeles, Cal.
liver function tests; liver cirrhosis; hepatitis; liver damage; solvents; hippurates; conjugation; benzoic acids; radiolabeled iodine; detoxication

AM-06676 **DASLER, WALDEMAR**, Chicago Med. Sch., Chicago, Ill.
chemical structure--biological activity; lathyrogenic agents; synthesis

AM-06677 **KURTZ, STANLEY M.**, Sch. Med., Duke Univ., Durham, N.C.
diagnostic tests; electron microscopy; kidney disorders; lipodystrophy..intestinal lipodystrophy; therapy evaluation; sprue

AM-06694 **FLEISHER, GERARD A.**, Mayo Assn., Rochester, Minn.
body fluids; enzymes; glucans; hormones; kidney; liver; 6-mercaptopurine; perfusion; radiolabeled carbon; radiolabeled phosphorus; radiolabeled sulfur; reticuloendothelial system; spleen; thorotrast; tritium; x-rays

AM-06792 **JOEL, WALTER**, Sch. Med., Univ. of Oklahoma, Oklahoma City, Okla.
gastritis, atrophic gastritis; stomach; mucous membrane; mucopolysaccharides

AM-06794 **VENNART, GEORGE P.**, Univ. North Carolina, Chapel Hill, N.C.
fatty liver; veins..portal veins; proteins; corn; dietary deficiency; choline; fatty acids; esterification; glycerin; cholesterol; phospholipids; plasmologens; enzymes; fractionation

AM-06805 **ELLIS, JOHN T.**, Sch. Med., Emory Univ., Atlanta, Ga.
iron; proteinuria; nephrosis; kidney..glomerulus; basement membrane; muscular dystrophy; cortisone

AM-06854 **VAN PEENEN, HUBERT J., III**, Sch. Med., Univ. Missouri, Columbia, Mo.
kidney disorders; chronic disease; zinc; iron; calcium; tissue; immunology..antigen-antibody reactions; trace elements; kidney neoplasms; pyelonephritis; kidney; heart; liver; immunology..autoantibodies

AM-06855 **QUITTNER, HOWARD**, Univ. Arkansas Med. Cr., Little Rock, Ark.
liver damage; sickle cell anemia; liver cells; Kupffer cells; cell components..cytoplasm; cell components.. organelles; collagen; hypoxia; blood

AM-06856 **MARKOWITZ, ABRAHAM S.**, Hektoen Inst. Med. Res., Chicago, Ill.
glomerulonephritis; bacteria..Streptococcus; kidney.. glomerulus; gamma globulin; immunology..antigen-antibody reactions; styrene particles; M protein; basement membrane; immune sera; immunofluorescence

AM-06866 **KIMMELSTIEL, PAUL**, Marquette Univ. Sch. Med., Milwaukee, Wis.
basement membrane; diabetes; glomerulonephritis; glomerulosclerosis; kidney; kidney disorders; kidney

AM-06867 **LONGLEY, JAMES B.**, Sch. Med., Univ. Louisville, Louisville, Ky.
kidney function; kidney circulation; kidney..renal tubular transport; radiolabeled iodine; perfusion

AM-06884 **HIGGINSON, JOHN**, Univ. Kansas Med. Cr., Kansas City, Kansas
cooperative study; disease classification; geographical sites; hepatotoxins; liver cirrhosis

AM-06947 **LASKER, NORMAN**, Col. Med., Dent., Seton Hall, Jersey City, N.J.
fatty liver; hyperkalemia; inulin; kidney glomerulus; kidney..renal tubular transport; kidney disorders; kidney function; liver cirrhosis; renal failure

AM-06992 **SAUNDERS, ALEX M.**, Sch. Med., Stanford Univ., Palo Alto, Cal.
chondroitin sulfate; connective tissue diseases; heparin; hyaluronic acid

AM-07020 **HUSAIN, SYD S.**, Mercy Hospital, Chicago, Ill.
iron; tissue culture; iron storage diseases; ferritin; ferritin labeled antibody technique; viruses; ribonucleic acid

AM-07116 **BLUMENTHAL, HERMAN T.**, Veterans Admin. Hosp., Jefferson Barracks, Mo.
arteriosclerosis; diabetes; immunology; binding; insulin; iodine; immunofluorescence; atherosclerosis; blood circulation dynamics; mucoproteins; diabetes

AM-07118 **BLOODWORTH, J.M.B., Jr.**, Univ. Wisconsin, Madison, Wis.
diabetic retinopathy; glomerulosclerosis; capillaries; diabetes..alloxan diabetes

AM-07150 **BLUMENTHAL, HERMAN T.**, Veterans Admin. Hosp., Jefferson Barracks, Mo.
diabetes..alloxan diabetes; immunology; insulin; vascular disorders; pancreatectomy; growth hormones; cortisone; radiolabeled iodine

AM-07159 **SHELDON, HUNTINGTON**, McGill Univ., Montreal, Canada
connective tissue; cell components..cytoplasm; radiolabeled sulfur; chondroitin sulfate; collagen; elastin

AM-07161 **SCHOENBERG, MELVIN D.**, Sch. Med., Western Reserve Univ., Cleveland, Ohio
adjuvants (immunology)..Freund's adjuvant; bacteria.. Mycobacteria (atypical); blood vessels; connective tissue; endotoxins; immunology..antigen-antibody reactions; lung; lymphatic tissue; phagocytosis; polysaccharides; reticuloendothelial system; styrene particles

AM-07178 **KRAMER, NORMAN C.**, Sch. Med., George Washington Univ., Washington, D.C.
kidney; glomerulonephritis; latex particles; immunology.. complement; M proteins; transplantation..homotransplantation; adjuvants, immunology..Freund's adjuvant; blood.. serum; immunity..autoimmunity; kidney transplantation; transplantation immunology

AM-07191 **SOBEL, HAROLD J.**, Beth Israel Hosp., Passaic, N.J.
histochemistry; diagnostic tests

AM-07226 **JUDAH, JACOB D.**, Chicago Med. Sch., Chicago, Ill.
cell death; liver damage; viruses..mouse hepatitis virus; carbon tetrachloride; thioacetamide; antihistamines; therapy; enzymes; cell components..mitochondria; phosphoproteins; cardiac glycosides; membrane permeability; anesthetics; radiolabeled

AM-07228 **LANE, NATHAN**, Col. Phys., Surg., Columbia Univ., N.Y.C.
gastric hypothermia; intestines..colon; mucous membranes; enzymes; gastrointestinal hyperplasia; adenoma; intestinal neoplasms..colon neoplasms; carcinogenesis; peptic ulcer; achylia gastrica..achlorhydria; neurosecretion; serotonin; histamine; hormones; stomach; gastric juice

AM-07272 **NAGAO, NISHIMURA**, Wakayama Med. Col., Wakayama, Japan
collagen diseases; tyrosine; metabolites; diet; phenylalanine; diagnostic tests; therapy evaluation; fluorescence

AM-07275 **HASEGAWA, JUNJI**, Sch. Med., Northwestern Univ., Chicago, Ill.
proteases..exopeptidases; skin; inflammation; starch gel electrophoresis

AM-07313 **FENNELL, ROBERT H., Jr.**, Presbyterian-University Hosp., Pittsburgh, Pa.
liver damage; anaphylaxis; cell death; immunology.. antigen--antibody reactions; enzymes; blood cells.. leukocytes; histamine; serotonin; radiolabeled iodine

AM-07314 **CLEMMONS, JACKSON J.W.**, Col. Med., Univ. Vermont, Burlington, Vt.
β-aminopropionitrile; connective tissue; copper; cortisone; detoxication; dietary deficiency; fibroblasts; lathyrism; lathyrogenic agents; oxidases..cytochrome oxidases; radiolabeled copper; thyroxine

AM-07369 **KASHGARIAN, MICHAEL**, Sch. Med., Yale Univ., New Haven, Conn.
kidney..renal tubular transport; water--electrolyte balance; hypokalemia; hypercalcemia; diabetes insipidus; radiolabeled potassium; radiolabeled sodium; hypercalcinia

AM-07461 **VOSE, GEORGE P.**, Texas Woman's Univ., University Hill Station, Denton, Texas
Instrumentation--methodology; bone spine; minerals; autopsy; osteogenesis; survey; bone density

AM-07481 **TAYLOR, HOWARD C., III**, College Med., Univ. Vermont, Burlington, Vt.
thymus; blood vessels; basement membrane; endothelium permeability; immunology; histamine

AM-07498 **BROCK, DONALD R.**, St. Mary Hosp., Livonia, Mich.
inflammation; hematology; steroid hormones; therapy; acetylsalicylic acid

AM-07553 **LANDING, BENJAMIN H.**, Childrens Hosp., Los Angeles, Cal.
bone disorders; cell components; colitis..ulcerative colitis; dyes; histiocytes; immunology..antibodies; lipids; lipoidal diseases; pernicious anemia; polysaccharides; sphingolipids; thalassemia; thyroid gland disorders; X-ray microscopy

AM-07555 **MORGAN, WINFIELD S.**, Metropolitan Gen. Hosp., Cleveland, Ohio
nucleotides; regeneration; liver; hepatectomy; TEAE cellulose chromatography

AM-07567 **PAST, WALLACE L.**, Sch. Med., Univ. Louisville, Louisville, Ky.
bone disorders; bone..femur; radiolabeled iron; radioautography; organ culture

AM-07568 **GRISHAM, JOE W.**, Sch. Med., Washington Univ., St. Louis, Mo.
bioassay; blood transfusion; chemical structure--biological activity; deoxyribonucleic acid; enzymes feedback; enzymes inhibitors; growth; liver; liver cells; reaction sites

AM-07570 **LEEVY, CARROLL M.**, Seton Hall Col. Med., Jersey City, N.J.
alcoholism; chloroquine; colchicine; cortisone; deoxyribonucleic acid; fatty liver; hepatoma; liver; liver cirrhosis; liver function tests; regeneration; therapy evaluation; tritium

AM-07728 **WILLIAMSON, JOSEPH R.**, Sch. Med., Washington Univ., St. Louis, Mo.
adipose tissue; albumins; biopsy techniques; diabetes; hormones; lipids; lipolysis; membrane permeability; perfusion

AM-07729 **ANDERSON, PHILIP C.**, Sch. Med., Univ. Missouri, Columbia, Mo.
cell; cytology; cytolysins; fluorescent dyes; globulins..serum globulins; injury; L-cells; plants; skin; spores

AM-07730 **PERRY, TILDEN W.**, Sch. Agr., Purdue Univ., West Lafayette, Ind.
corn; corn oil; diet; food processing; fungi.. Candida albicans; fungicides; lipids; peptic ulcer; swine; tocopherol; vitamin A

AM-07790 **KOFFLER, DAVID**, Mount Sinai Hosp., New York, N.Y.
colitis..ulcerative colitis; immunology..autoantibodies; adjuvants, immunology..Freund's adjuvant; hypersensitivity; transplantation rejection; blood proteins..serum proteins

AM-07823 **HARTY, MICHAEL**, Grad. Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
aging; elastic tissue; elasticity; fetus; proteases.. elastase

AM-07848 **SNODGRASS, PHILIP J.**, Peter Bent Brigham Hosp., Boston, Mass.
cell components..lysosomes; cell components.. microsomes; cell components..mitochondria; chlorinated hydrocarbons; enzymes; liver damage; liver diseases; toxicology

AM-07919 **TRUMP, BENJAMIN F.**, Sch. Med., Univ. Washington, Seattle, Wash.
kidney disorders; kidney..glomerulus; kidney..renal tubules; biopsy techniques; organ culture; osmotic pressure; hypoxia; 2,4—dinitro phenol; cyanides; mercury poisoning; cell death; kidney necrosis; kidney.. juxtaglomerular apparatus; dehydration (body fluids); diuresis

AM-07941 **TASWELL, HOWARD F.**, Mayo Assn., Rochester, Minn.
phosphomonoesterases..alkaline phosphatase; enzymes.. isoenzymes; children; adults; starch gel electrophoresis; 5—nucleotidase; pregnancy; diagnostic tests; bone disorders

AM-07978 **WEDEEN, RICHARD P.**, Mount Sinai Hosp., N.Y.C.
diuretics..mercurial diuretics; mercury; reaction sites; kidney, renal tubules; chloromerodrin; blood circulation dynamics; electrolytes; radiolabeled mercury

AM-07979 **REYNOLDS, EDWARD S.**, Sch. Med., Harvard Univ., Boston, Mass.
calcium; carbon tetrachloride; carcinogens; cell components..cell membrane; cell death; cytotoxicity; dietary deficiency; lipids; liver cells; liver damage; membrane permeability; phosphomonoesterases..glucose-6-phosphatases; proteins; radiation effects; radiolabeled carbon; reaction sites

AM-07981 **KEECH, MADELINE K.**, Col. Med., Wayne State Univ., Detroit, Mich.
research facilities; electron microscopy; skin; collagen; chemical structure; tensile strength; age; connective tissue diseases

AM-07988 **JOHNSTON, AUSTIN D.**, Col. Phys., Surg., Columbia Univ., N.Y.C.
aminonucleoside; bone; calcium; decalcification; intestinal absorption; phosphorus; puromycin; radiolabeled calcium; radiolabeled phosphorus; renal failure

AM-08041 **MOYA, FRANCISCO J.**, Pennsylvania Hosp., Philadelphia, Pa.
liver; cell division..mitosis; growth inhibitors; bioassay; instrumentation--methodology; hepatectomy; liver damage; radiolabeled carbon; tritium

AM-08141 **ISERI, OSCAR A.**, Boston City Hosp., Boston, Mass.
liver diseases; carbon tetrachloride; proteins; lipotropic factors; choline; ethanol; poisoning; liver; cell components..ribosomes; alcoholism; liver cirrhosis; lipids; tritium; radiolabeled carbon; dietary deficiency

AM-08166 **STREBEL, RALPH F.**, New York Med. Col., N.Y.C.
Arthus phenomenon; calcification; dihydrotachysterol; hypersensitivity..delayed hypersensitivity; immunity.. autoimmunity; infants, animals..newborn; lymphatic tissue; splenectomy; thymus; triamcinolone

AM-08168 **HOUCK, JOHN C.**, Res. Fdn. Children's Hosp., Washington, D.C.
anesthetics; antihistamines; croton oil; diabetes; endothelium permeability; enzymes inhibitors; inflammation; lathyrism; proteins; scurvy; skin; steroid hormones; vasoactive agents

AM-08226 **COCHRAN, TERENCE H.**, Providence Hosp., Portland, Ore.
bone..spine; bone..ribs; autopsy; minerals; organic compounds; osteoporosis; osteomalacia; age; rickets

AM-08276 **PATEK, PAUL R.**, Sch. Med., Univ. Southern California, Los Angeles, Cal.
arteries; cholesterol; colloids; endocrine glands; infants, animals..newborn; liver; macrophages; pregnancy.. placental transfer; reticuloendothelial system

AM-08314 **YODAIKEN, RALPH EMILE**, Sch. Med., State Univ. New York, Buffalo, N.Y.
diabetes; vascular disorders; capillaries; arteries, arterioles; basement membrane; genetics; infants, human..newborn; islands of Langerhans..beta cells; ethnic groups.. Bantu; geographical sites..Africa; diet

AM-08389 **AL-KHALIDI, USAMA**, Sch. Med., American Univ. Beirut, Beirut, Lebanon
oxidoreductases..xanthine oxidase; liver damage; liver diseases; diagnostic tests; toxicology; blood..serum; genetic strains

AM-08416 **STENGER, RICHARD J.**, Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
liver diseases; toxins; hepatitis; cell components.. endoplasmic reticulum; hepatoma; enzymes; carcinogens; carbohydrates; lipids; diabetes; hyperadrenalism

AM-08432 **MOHOS, STEVEN C.**, New York Med. Col., N.Y.C.
diabetes; glomerulosclerosis; insulin; adjuvants; immunology..antibodies; proteinuria; edema; renal hypertension

AM-08485 **CURTIS, JOSEPH C.**, Clark Univ., Worcester, Mass.
ultrasonics; liver cell

AM-08521 **VRACKO, RUDOLF**, Veterans Admin. Hosp., Seattle, Wash.
capillaries; basement membrane; diabetes; atherosclerosis; endothelium permeability and transport; kidney..glomerulus; electron microscopy

AM-08606 **CAHILL, GEORGE F., Jr.**, Elliott P. Joslin Res. Lab., Boston, Mass.
electron microscopy; diabetes; islands of Langerhans ..beta cells; insulin; growth hormones; fetus; thyroglobulin; cell components..cell membrane; basement membrane; hypophysectomy; adipose tissue; chemical structure; laboratory facilities

AM-08607 **McMANUS, J.F.A.**, Indiana Univ., Bloomington, Ind.
kidney..juxtaglomerular apparatus; proteases..renin; secretory mechanisms; kidney function; kidney, renal tubules; laboratory facilities; electron microscopy

AM-08648 **WEST, WILLIAM T.**, Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.
amyloidosis; immunology; nutrition; dietary deficiency; thymus transplantation

AM-08659 **REDISCH, WALTER**, New York Univ. Med. Ctr., N.Y.C.
microcirculation; capillary beds; blood flow; rheumatic diseases; anti-inflammatory agents; freezing

AM-08677 **TRACHT, MYRON E.**, Beth Israel Hosp., New York, N.Y.
fatty liver; reaction sites; liver function; carbon tetrachloride; ethionine; fats; oxidation; adipose tissue; hormones; liver damage; toxicology

AM-08686 **SMUCKLER, EDWARD A.**, Sch. Med., Univ. Washington, Seattle, Wash.
liver damage; carbon tetrachloride; hepatotoxins; cell components..ribosomes; binding; liver cirrhosis; enzymes; ions..cation; messenger ribonucleic acid; lipids; radiolabeled carbon; primates..monkeys; proteins

AM-08724 **FOLEY, JOHN F.**, Col. Med., Univ. Nebraska, Omaha, Nebr.
growth hormones; reaction sites; cell components.. cell membrane; cell components..ribosomes; cell division..mitosis; L—cells; proteins; glucose

(contd)

PATHOLOGY (CONTD)

AM-08736 MALLORY, G. KENNETH, Mallory Institute Pathology, Boston, Mass.
liver damage; nutrition; iron; metals; intestinal absorption; ethionine; p--dimethylaminobenzene; bile ducts obstruction; hemochromatosis; radiolabeled iron; tritium

AM-08850 ANTOPOL, WILLIAM, Beth Israel Hosp., New York, N.Y.
barometric decompression; hydrostatic pressure; gas tensions; bone marrow; lung; muscle contraction; bronchoconstrictors; serotonin; bradykinin; histamine; sulfhydryls

AM-08853 HOLLAND, NANCY H., Univ. Kentucky Med. Cr., Lexington, Ky.
beta globulins; nephritis; nephrosis; globulins.. serum globulin; children; immunity..autoimmunity; immune sera; immunology..antigen--antibody reactions; complement--fixation tests; adjuvants.. immunology..Freund's adjuvant

AM-08869 COPPERMAN, REUBEN, Presbyterian Hosp., Philadelphia, Pa.
cell division--mitosis; blood cells, leukocytes; cell culture; arthritis..rheumatoid arthritis; immunity..autoimmunity; synovial fluid; streptococcal infections; immunology..agglutinins

AM-08870 SPIRO, HOWARD M., Yale Univ. Sch. Med., New Haven, Conn.
gastrointestinal system; colitis; gastritis; gastrointestinal neoplasms; mucous membrane; carcinogenesis; intestines..small intestine; radiation effects..whole body radiation; hypoxia; oxidoreductases..cytochrome oxidases; oxidoreductases..succinate dehydrogenase; membrane permeability and transport; phosphatases.. adenosine triphosphatase; intestinal absorption

AM-08872 ORBISON, J. LOWELL, Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
β--aminopropionitrile; polysaccharides; proteins; tissue culture; fetus; lathyrism; congenital abnormalities; inflammation

AM-08911 HIATT, ROBERT B., Col. Phys., Surg., Columbia Univ., New York, N.Y.
mast cells; intestines, ileum; population dynamics.. cell; mucous membrane; transplantation..autotransplantation

AM-08921 LOWENSTEIN, LEAH M., Boston City Hosp., Boston, Mass.
kidney cells; tissue culture; cell division; electrolytes; carbohydrases..beta--glycosidase; catalase; transsulfurases..thiosulfate transsulfurase; kidney hyperplasia; radiolabeled phosphorus

AM-08933 VARON, HAROLD H., Baylor Univ. Med. Cr., Dallas, Tex.
ovary..corpus luteum; estrogens; reaction sites; cell components..endoplasmic reticulum; cell components.. Golgi apparatus; cell types; secretory mechanisms

AM-08939 KELLY, JOHN W., Sch. Med., Tufts Univ., Boston, Mass.
quaternary ammonium compounds; mucopolysaccharides; nucleic acids

AM-08947 PANNER, BERNARD J., Univ. Rochester, Med. Cr., Rochester, New York
electron microscopy; autolysis; kidney; organ culture; dietary deficiency; tocopherols; phosphatases.. adenosine triphosphatase; oxidoreductases..succinate dehydrogenase; cell components..mitochondria; environment; cell components..lysosomes; instrumentation--methodology; bioassay

AM-08996 BARBER, AELETA N., Sch. Med., Louisiana State Univ., New Orleans, La.
siderosis; eye..retina; eye ciliary body; kidney, glomerulus; iron; venous infusions; proteinuria; lipoproteins..serum lipoproteins; nephrotic syndrome; mucopolysaccharides; basement membrane; primates.. spider monkey

AM-09087 ELLIOTT, ROBERT L., Univ. Mississippi Med. Cr., Jackson, Miss.
electron microscopy; stomach..gastric juice; intestines..small intestine; mucous membrane; cell components; vagotomy; fasting; secretory mechanisms; peptic ulcer; malabsorption syndrome

AM-09088 HACK, MARVIN H., Sch. Med., Tulane Univ., New Orleans, La.
kidney; ovary; uterus; plasmalogens; estrus cycle

AM-09121 TEDESCHI, C.G., Framingham Union Hosp., Framingham, Mass.
thymus; lymphatic tissue; adipose tissue; lipase; cholesterol; lipoproteins; triglycerides; age; homologous wasting disease

AM-09272 HELLER, HARRY, Tel-Hashomer Hospital, Tel-Aviv, Israel
familial Mediterranean fever; amyloidosis; amyloid substance; reaction sites; tissue culture; chemical structure; genetics; epidemiology; blood cells.. leukocytes; metabolic diseases

AM-09281 MURRELL, LEONARD R., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
organ culture; islands of Langerhans..beta cells; cell differentiation; cell division..mitosis; insulin; glucose; amino acids; oxygen consumption; hydrocortisone; tritium; diabetes

AM-09352 BOATMAN, JOSEPH B., Midwest Med. Research Fdn., Wichita, Kans.
electron microscopy; liver; cell components..mitochondria; cold; cell fluids; thyroid hormones; hydration (body fluids)

AM-09359 COHEN, SEYMOUR, Mt. Sinai Hosp., New York, N.Y.
lead poisoning; kidney..renal tubules; kidney disorders; cortisone; EDTA; therapy evaluation; porphyrins; cell components..mitochondria; enzymes

AM-09377 RAGINS, HERZL, Albert Einstein Col. Med., Bronx, N.Y.
cells; stomach; cell components..cell nucleus; cell age; population dynamics, cell; tritium; pregnancy; peptic ulcer

AM-09379 ARNOLD, JAMES S., D.N. Sharp Mem. Comm. Hosp., San Diego, Cal.
osteoporosis; aging; bone

AM-09380 ARNOLD, JAMES S., D.N. Sharp Mem. Community Hosp., San Diego, Cal.
bone density; aging; metabolic diseases; osteoporosis; body composition

AM-09409 ESSNER, EDWARD S., Sloan-Kettering Inst. Cancer Res., New York, N.Y.
lead phosphate; electron microscopy; phosphatases; cell components..Golgi apparatus; cell components..lysosomes; cell components..endoplasmic reticulum; cell components.. cell nucleus; cytology

AM-09561 PENNEY, DAVID P., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
adrenal glands; adrenal glands transplantation; transplantation..autotransplantation; nucleoside phosphates; phosphatases; ACTH; nicotinamide; cell components

AM-09676 WOODS, ALEXANDER H., Col. Med., Univ. Arizona, Tucson, Ariz.
gastrointestinal disorders; adjuvants..Freund's adjuvant; stomach..gastric juice; achylia gastrica..achlorhydria; mucous membrane; immunology..antibodies; latex particles

AM-09958 NATELSON, SAMUEL, Roosevelt Hosp., New York, N.Y.
uremia; diagnostic tests; guanidines; guanidinoacetic acid; succinic acid

AM-10005 HU, FUNAN, Oregon Regional Primate Res. Cr., Beaverton, Ore.
electron microscopy; carcinogenesis; blisters; melanocytes; virus--like particles; skin diseases; skin neoplasms; pigmentation disorders

AP-00298 BALCHUM, OSCAR J., Sch. Med., Univ. Southern California, Los Angeles, Cal.
pulmonary emphysema; air pollution; proteins; lung; immunology; immunity..autoimmunity; nitrogen dioxide; ozone; enzymes

AP-00321 BALLENGER, JOHN J., Evanston Hosp. Assn., Evaston, Ill.
smoking; nicotine; arsenic; respiratory system; epithelium; cell components..cilia; toxicology; cinematography

CA-01323 VITALE, JOSEPH J., Harvard Sch. Pub. Hlth., Boston, Mass.
dietary deficiency; proteins; gastrointestinal disorders; gastrointestinal neoplasms; carcinogenesis; malabsorption syndromes; primates..Cebus monkeys

CA-01620 OPPENHEIMER, ENID T., Col. Phys., Surg., Columbia Univ., New York, N.Y.
carcinogenesis; connective tissue neoplasms; plastics; implants; trauma; cortisone; croton oil; mucopolysaccharides; radiolabeled sulfur; oxygen tension; fibroblasts; mast cells; surface properties; radiolabeled carbon

CA-01905 ENGLE, RALPH L., Jr., Cornell Univ. Med. Col. N.Y.C. myeloma, bone marrow..multiple myeloma; myeloma globulins; blood proteins..serum proteins; Bence-Jones protein; blood cells, erythrocytes; blood cells..plasma cells; anemia; surface properties; cell age; molecular structure; gamma globulin

CA-02034 JOHNSON, LORNA D., Harvard Med. Sch., Boston, Mass.
uterus neoplasms..cervix neoplasms; squamous cell carcinoma; latent cancer; epithelium; glycogen; phosphotransferases..UTP : α--D--glucose--1--phosphate uridylyltransferase; glycosyltransferases..UDP glucose : α--1,4--glucan α--4--glucosyltransferase; oxidoreductases; metaplasia; vaginal smears; uterus..cervix; children; fetus

CA-02090 ZAMCHECK, NORMAN, Boston City Hosp., Boston, Mass.
gastrointestinal neoplasms; mucous membrane; intestines; nutrition; intestinal absorption; xylose; metaplasia; stomach; pernicious anemia

CA-02356 ZEIDMAN, IRVING, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
cortisone; glucocorticoids; metastasis; mineralocorticoids; neoplasms; neoplastic cells; thymidine; tritium

CA-02413 MOORE, J. GEORGE, Sch. Med., Univ. California, Los Angeles, Cal.
antineoplastic agents; cancer chemotherapy; cytotoxity; gamma rays; genetics..chromosomes; neoplastic cells; ovary neoplasms; radiation therapy; tissue culture; uterus neoplasms

CA-02507 VORWALD, ARTHUR J., Col. Med., Wayne State Univ., Detroit, Mich.
lung disease; lung neoplasms; beryllium; primates.. monkeys; carcinogenesis; aerosols; 3,4--benzpyrene methylcholanthrene

CA-02528 RUTENBURG, ALEXANDER M., Beth Israel Hosp., Boston, Mass.
enzymes; blood..serum; bioassay; neoplasms; azo compounds; proteases..peptidases; synthesis

CA-02624 **WOLF, PAUL L., Detroit Inst. Cancer Res., Detroit, Mich.**
carcinogenesis; growth; regeneration; liver; hepatectomy; liver cirrhosis; bile ducts; oxidoreductases; oxidoreductases..17--β--hydroxysteroid dehydrogenase; carbohydrases..glycosidases; synthesis; 3--(5--bromo-indolyl)--β--D--glucopyranoside; L--leucyl--3--indolylamide; proteases..peptidases; liver cells; transplantation..homotransplantation; heart..myocardium; oxidoreductases..NADH2 diaphorase; gamma globulin; blood cells..lymphocytes; leukemia; genetic strains; heart transplantation

CA-02677 **RUTENBURG, ALEXANDER M., Sch. Med., Harvard Univ., Boston, Mass.**
bacteria..enterobacteria; diet; enzymes; gastrointestinal neoplasms; gastrointestinal system; liver cirrhosis; mucous membrane

CA-02704 **VON HAAM, EMMERICH, Sch. Med., Ohio State Univ., Columbus, Ohio**
carcinogenesis; carcinogens; cell; cytology; deoxyribonucleic acid; metaplasia; ribonucleic acid; uterus neoplasms

CA-02738 **ADAMS, W. ROBERT, Sch. Med., Yale Univ., New Haven, Conn.**
immunology..antigens; cytology; ferritin labeled antibody technique; immunofluorescence; kidney disorders; liver diseases; intestines; epithelium; infectious mononucleosis; electron microscopy; viruses..Newcastle disease virus; Ehrlich ascites carcinoma; ultrasonics; density gradient ultracentrifugation; virus-like particles

CA-02800 **LEIGHTON, JOSEPH, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
metastasis; neoplasms invasiveness; neoplastic cells; cell; transplantation; stroma; neoplasms; chorioallantoic membrane; temperature; neoplastic growth environment

CA-02893 **SHUBIK, PHILIPPE, Chicago Med. Sch., Chicago, Ill.**
carcinogenesis; melanoma; 9,10--dimethyl--1,2--benzanthracene; urethan; melanin

CA-02936 **FREIMAN, DAVID G., Beth Israel Hosp., Boston, Mass.**
catalysts; enzymes; enzymes inhibitors; ion..anions; ion..cation; neoplastic cells; phosphatases; reaction sites

CA-02947 **STULBERG, CYRIL S., Child Research Cr., Michigan, Detroit, Mich.**
cell culture collections; cell differentiation; cell types; chemical structure; cooperative study; freezing; immunofluorescence; immunology..antigens; tissue preservation; viruses

CA-03152 **KALTENBACH, JOHN P., Sch. Med., Northwestern Univ., Chicago, Ill.**
ascites tumors; membrane permeability; neoplastic cells; cell components..cell membrane; cytology; catalase

CA-03341 **MOON, HENRY D., Sch. Med., Univ. California, San Francisco, Cal.**
growth hormones; insulin; triiodothyronine; adrenal cortex hormones; cell; hormones

CA-03424 **CASTLEMAN, BENJAMIN, Massachusetts Gen. Hosp., Boston, Mass.**
adrenal glands neoplasms; breast neoplasms; pentose pathway; adrenal glands disorders; lipids; glycogen; oxidoreductases..gulonolactone oxidase; oxidoreductases..sorbitol--xylitol dehydrogenase; oxidoreductases..uridine diphosphate glucose dehydrogenase; cartilage; steroids; endocrine glands neoplasms; enzymes; mucopolysaccharides; ascorbic acid; androgens; carcinogenesis; pyridoxine; dietary deficiency; carbohydrates; spleen; lymph nodes; regeneration; limbs

CA-03475 **HODES, MARION E., Indiana Univ. Med. Cr., Indianapolis, Ind.**
carcinogenesis; deoxyribonucleic acid; leukemia; lymphosarcoma S913; cell--free systems; neoplasms; Shope papilloma; carcinoma V--2; carcinoma V--7; nucleases..deoxyribonuclease; carcinogens; ribonucleic acid

CA-03481 **MIYAJI, TORU, Sch. Med., Osaka Univ., Osaka, Japan**
hepatoma; liver cirrhosis; geographical sites..Asia; socioenvironment

CA-03562 **COMAN, DALE R., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
cell adhesion; cell movement; neoplastic cells; surface properties; viruses..Shope papilloma virus

CA-03589 **WATSON, MICHAEL L., Univ. Rochester Med. Cr., Rochester, N.Y.**
electron microscopy; cell components..organelles; cell components..cell nucleus; kidney disorders; starvation; regeneration; antimetabolites

CA-03654 **KOPROWSKA, IRENE, Hahnemann Med. Col., Philadelphia, Pa.**
carcinogenesis; squamous cell carcinoma; uterus neoplasms..cervix neoplasms; neoplastic growth; transformation; cell differentiation; cytology; exfoliative cytology

CA-03694 **HOLLAND, ROBERT H., Sch. Med., Univ. Texas, Dallas, Tex.**
arsenic; lung neoplasms; smoking; gass chromatography

CA-03695 **GOLDHABER, PAUL, Harvard Univ., Sch. Dent., Boston, Mass.**
carcinogenesis; carcinogens; diffusion; millipore filters

CA-03711 **ASHLEY, CHARLES A., Bassett Hosp., Cooperstown, N.Y.**
carcinogenesis; epithelioma; epithelium; methylcholanthrene; skin neoplasms; stroma; transplantation

CA-03731 **FISHER, EDWIN R., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
cell; deoxyvyridoxine; dietary deficiency; histocompatibility; immunology..antibodies; kidney; pyridoxine; radiation effects; radioisotopes..mercury 203; reticuloendothelial system; Shwartzman phenomenon; skin transplantation..heterotransplantation; transplantation..homotransplantation; transplantation rejection

CA-03787 **TANNENBAUM, ALBERT, Michael Reese Hosp. Med. Cr., Chicago, Ill.**
urethan; carcinogenesis; carcinogenesis inhibitors; croton oil

CA-03825 **BARETA, JOHN, St. Joseph's Hosp., Milwaukee, Wis.**
chromatography; neoplasms; nucleotides

CA-03846 **BURDETTE, WALTER J., Col. Med., Univ. Utah, Salt Lake City, Utah**
carcinogenesis; radiation effects; antibiotics; gases; neoplasms

CA-03917 **POST, JOSEPH, Goldwater Memorial Hosp., N.Y.C.**
age; carcinogenesis; deoxyribonucleic acid; p-dimethylaminoazobenzene; dosage; genetics..chromosomes; liver; liver damage; liver neoplasms; regeneration; thymidine; tritium

CA-04114 **SICE, JEAN, Chicago Med. Sch., Chicago, Ill.**
alkanes; alkanols; carcinogenesis; carcinogens; molecular energy levels; polar molecules; sulfides

CA-04119 **MALLORY, G. KENNETH, Boston City Hosp., Boston, Mass.**
carcinoma; deoxyribonucleic acid; latent cancer; liver cirrhosis; liver neoplasms; radioautography; thymidine; tritium

CA-04207 **WAGGENER, JOHN D., Sch. Med., Univ. Texas, Galveston, Tex.**
electron microscopy; inflammation; immunology..antigen-antibody reactions; Arthus phenomenon; radiation effects; ionizing radiation; nerves..neuroglia; Schwann cells; injury..wound healing; kidney disorders; lupus erythematosus; brain neoplasms; heart; nervous system

CA-04311 **KIRSTEN, WERNER H., Sch. Med., Univ. Chicago, Chicago, Ill.**
leukemia..lymphocytic leukemia; viruses..polyoma virus; infants, animals..newborn; transplantation..heterotransplantation; neoplasms transplantation

CA-04320 **RUBIN, CYRUS E., Sch. Med., Univ. Washington, Seattle, Wash.**
carcinoma; gastrointestinal neoplasms; mucous membrane; carcinogenesis; gastrointestinal disorders; colchicine; lipids; intestinal absorption; sprue; glutens; diet; achylia gastrica; tritium; thymidine; pernicious anemia; children; genetics; geographical sites..Israel; cytology; regeneration

CA-04322 **HIGGINSON, JOHN, Univ. Kansas Med. Cr., Kansas City, Kans.**
carcinogenesis; stomach neoplasms; cholesterol; oils; heat; diet; mastomys

CA-04421 **GALAMBOS, JOHN T., Sch. Med., Emory Univ., Atlanta, Ga.**
intestinal polyps..rectosigmoid polyps; longitudinal study; photography; exfoliative cytology; carcinogenesis; intestinal neoplasms..rectum neoplasms

CA-04529 **MAEIR, DAVID M., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.**
metaplasia; urinary bladder; carcinogenesis; squamous cell carcinoma; urinary bladder neoplasms; vitamin A; estrogens

CA-04592 **SMITH, LAWRENCE W., Waldemar Med. Res. Fdn., Port Washington, N.Y.**
carcinogenesis; trauma; injuries..surgical wounds; neoplastic growth; injuries..burns; carcinogens; croton oil; breast neoplasms; parabiosis; transplantation immunology; viruses..oncogenic viruses; inflammation

CA-04632 **DAO, THOMAS L., Health Research, Inc., Buffalo, N.Y.**
breast neoplasms; hydrocarbons; polycyclic compounds; carcinogens; carcinogenesis; sex hormones; ovary

CA-04665 **RAPPAPORT, HENRY, Chicago Med. Sch., Chicago, Ill.**
carcinogenesis; cell-free systems; 9,10-dimethyl-1,2-benzanthracene; dosage; infants, animals..newborn; leukemia; lymphoma; transplantation

CA-04672 **BURDETTE, WALTER J., Col. Med., Univ. Utah, Salt Lake City, Utah**
gallbladder neoplasms; gallstones

CA-04784 **KESTON, ALBERT S., Inst. Med. Res., New York, N.Y.**
phenol oxidases; eye neoplasms; melanoma; diagnostic tests

CA-04788 **GREEN, IRA, Montefiore Hosp., New York, N.Y.**
implants; micropore diffusion chamber technique; transplantation..autotransplantation; transplantation homotransplantation; neoplasms; bone marrow; blood cells..lymphocytes; immunity; immunology..antibodies; transplantation rejection; blood cells..plasma cells

CA-04816 **LILLIE, RALPH D., Sch. Med., Louisiana State Univ., New Orleans, La.**
iron storage disease; nitrous acid; periodic acid; proteins denaturation; lipids; lipofuscin; pigments; intestines..colon; acylation; oxidants; melanin; amine

(contd)

PATHOLOGY (CONTD)

CA-04904 REILLY, RICHARD W., Univ. Chicago, Chicago, Ill.
skin transplantation; neoplasms transplantation; thymidine analogs; histocompatibility; reticulum cell-like sarcoma-Yoshida; infant animals..newborn; radiation effects; x-rays; runting syndrome; immunology; intestines..colon; intestines..small intestines; injury; epithelium

CA-04953 CORIELL, LEWIS L., South Jersey Med. Res. Fdn., Camden, N.J.
information exchange; cell culture collections; genetics.. chromosomes; serology; species; neoplastic cells; cytology; cold

CA-04955 CAULFIELD, JAMES B., Massachusetts Gen. Hosp., Boston, Mass.
blood vessels; kidney; diabetes; cell components; membrane permeability and transport; molecules.. macromolecules; Ehrlich ascites carcinoma; basal cell carcinoma; skin neoplasms; contact dermatitis

CA-04975 SHANNON, JOHN E., American Type Culture Collection, Washington, D.C.
freezing; cell culture collections; cell types; cytology; cryostat; cryoscopy

CA-04996 TORESON, WILFRED E., Univ. California Med. Cr., San Francisco, Cal.
hepatoma; ethionine; homocystine; hypophysectomy; gonadectomy; estrogens; androgens; electron microscopy; pancreas; salivary glands; testis; kidney; cryostat

CA-05053 SPRUNT, DOUGLAS H., Univ. Tennessee, Memphis, Tenn.
lung neoplasms; carcinogenesis; epithelium; lung.. bronchi; lung..alveolus; irritants; toxins; bacteria; viruses..vaccinia virus; hydrochloric acid

CA-05174 ABDUL, AL-SAADI, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
thyroid neoplasms; immunology..antibodies; immunity

CA-05195 FISHER, EDWIN R., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
electron microscopy; intestinal polyps..colon polyps; intestinal neoplasms..colon neoplasms; carcinoma; cell components..mitochondria; mucin; mucous membrane; tongue neoplasms; skin neoplasms; myoblastoma; carcinogenesis; Schwann cells; nerves degeneration..Wallerian degeneration; virus-like particles; mouth neoplasms; leukoplakia; papilloma; squamous cell carcinoma

CA-05310 HRUBAN, ZDENEK, Sch. Med., Univ. Chicago, Chicago, Ill.
thienylalanine; liver; pancreas; amino acid analogs; phenylalanine; azaserine; neoplasms; trioxanol

CA-05312 CHANG, JEFFERY P., Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
carcinogenesis; azo compounds; hepatoma; fasting; carbon tetrachloride; regeneration; liver; tritium

CA-05313 MacDONALD, RICHARD A., Mallory Inst. Path. Fdn., Boston, Mass.
iron; radiolabeled iron; liver cirrhosis; liver; regeneration; radiolabeled; hemochromatosis; alcoholism; malnutrition

CA-05315 SCARPELLI, DANTE G., Sch. Med., Ohio State Univ., Columbus, Ohio
aging; carcinogenesis; carcinogens; cell dedifferentiation; cell differentiation; cytology; deoxyribonucleic acid; estrogens; estrus; glycogen; inflammation; oxidases; ribonucleic acid; uterus neoplasms..cervix neoplasms

CA-05319 WOOD, SUMNER, Jr., Johns Hopkins Hosp., Baltimore, Md.
ascites tumors; cytology; radiolabeled; neoplastic cells; neoplasms; metastasis; embolism; genetic strains; endothelium; capillaries; mesentery

CA-05321 CARNES, WILLIAM H., Sch. Med., Univ. Utah, Salt Lake City, Utah
neoplastic growth; thymus; carcinogenesis; bone marrow; radiation protection; spermatozoa; arteries..aorta; dietary deficiency; copper; proteins; training; viruses.. Moloney leukemia virus; lymphoma

CA-05326 WILSON, RICHARD B., Col. Med., Univ. Nebraska, Omaha, Nebr.
basal cell carcinoma; basement membrane; cell components..intercellular bridges; cytology; electron microscopy; skin neoplasms; squamous cell carcinoma; transformation

CA-05378 McDONALD, JAMES H., Col. Med., Univ. Illinois, Chicago, Ill.
AAF; binding; carbon tetrachloride; carcinogenesis; carcinogens; p-dimethylaminoazobenzene; ethionine; indoles; liver; liver damage; liver neoplasms; purified diet; urinary bladder; urinary bladder neoplasms

CA-05385 REES, EARL D., Col. Med., Univ. Kentucky, Lexington, Ky.
carcinogenesis; breast neoplasms; 3--methylcholanthrene; hormones; dosage; nucleic acids; nucleoproteins; chemotherapy; tissue culture; organ culture; disease transmission

CA-05386 PANSKY, BEN, New York Med. Col., N.Y.C.
diabetes..alloxan diabetes; leukemia; islands of Langerhans; carcinogenesis; hematology

CA-05425 BRANDES, DAVID, Baltimore City Hosp., Baltimore, Md.
prostate; cell components..lysosomes; breat neoplasms; hormones; enzymes; radiolabeled carbon; amino acid; proteins; adenocarcinoma 755 Bagg-Jackson; ascites tumors; antineoplastic agents; pinocytosis; virus replication

CA-05455 BERENBLUM, ISAAC, Weizmann Inst. Sci., Rehovoth, Israel
carcinogens; carcinogenesis; radiation effects; dosage; urethan; thymus; transplantation; cell-free systems; bone marrow; leukemia

CA-05482 MANUELIDIS, ELIAS E., Sch. Med., Yale Univ., New Haven, Conn.
cell types; transplantation..heterotransplantation; nervous system neoplasms; brain lesions; protozoa..Trypanosoma rhodesiense; viruses..oncogenic viruses; genetics; cytology; fluorescence microscopy; neoplasms transplantation

CA-05676 SCHROOT, GEORGE R., Univ. Louisville, Louisville, Ky.
diphenylthiocarbazone; prostate; electron microscopy

CA-05678 BLACK, MAURICE M., New York Med. Col., New York, N.Y.
proteins; histones; immunology..antigens; immunology.. antibodies; immunity..cross immunity; neoplastic cells

CA-05716 FISHER, BERNARD, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
neoplastic cells; Walker carcinoma 256; tritium; latent cancer; hepatectomy; parabiosis; metastasis; growth factors; neoplasms; liver; kidney; spleen

CA-05717 RAPPAPORT, HENRY, Chicago Med. Sch., Chicago, Ill.
electron microscopy; carcinogenesis; carcinogens; lymphoma; leukemia; melanoma; infants, animals..newborn

CA-05729 THOMPSON, IAN M., Univ. Missouri Med. Cr., Columbia, Mo.
β-naphthylamine; dosage; ureteral reflux; urinary bladder neoplasms; metastasis; implants; neoplastic cells; carcinogenesis

CA-05745 LEHR, HERNDON B., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
tissue preservation; freezing; skin transplantation; instrumentation; kidney transplantation

CA-05747 VON HAAM, EMMERICH, Sch. Med., Ohio State Univ., Columbus, Ohio
adenocarcinoma; uterus neoplasms; uterus hyperplasia; uterus..endometrium; methylcholanthrene; carcinogenesis

CA-05748 HAUS, ERHARD L.A., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
breast neoplasms; carcinogenesis; pituitary gland transplantation; adrenal glands; brain..hypothalamus

CA-05756 KINOSITA, RIOJUN, City Hope Med. Cr., Duarte, Cal.
liver cirrhosis; carcinogenesis; liver neoplasms; oleic acid; copper; hepatotoxins; fungi, Aspergillus oryzae; protein-free diet; nephrosis

CA-05771 PILGRIM, H. IRA, Sch. Med., Univ. Utah, Salt Lake City, Utah
plasma cell neoplasms; reticulum cell sarcoma; intestinal neoplasms..ileocecal junction neoplasms; carcinogenesis; Hodgkin's disease; reticuloendotheliomas; germ-free

CA-05822 FOX, EDWARD O., Sch. Med., Harvard Univ., Boston, Mass.
birds; pituitary neoplasms; neoplasms transplantation; growth hormones; albumins..serum albumin; hyperalbuminemia; obesity; diabetes; nutrition

CA-05858 ROCKEY, E.E., New York Med. C., N.Y.C.
bronchogenic carcinoma; carcinogenesis; longitudinal study; smoking

CA-05946 NELSON, NORTON, New York Univ. Med. Cr., New York, N.Y.
carcinogens; chemical structure

CA-05981 KING, DONALD W., Sch. Med., Univ. Colorado, Denver, Colo.
cell; electron microscopy; radiolabeled; transformation; deoxyribonucleic acid; phagocytosis; proteins; L-cells; lipids; cell death; cell components..microsomes; fractionation; virus diseases

CA-05983 GARRET, MARTA, Downstate Med. Cr., State Univ. N.Y. podophyllin; carcinogenesis; uterus neoplasms..cervix neoplasms; latent cancer; carcinogens; 3,4--benzpyrene; radiation effects; cytology

CA-05985 MURPHY, EDWIN D., Roscoe B. Jackson Mem. Lab., Bar Harbor, Me.
carcinogenesis; carcinogens; epithelium; ovary neoplasms; sex hormones; uterus neoplasms..cervix neoplasms

CA-05991 MING, SI-CHUN, Beth Israel Hosp., Boston, Mass.
carcinogenesis; carcinoma; cytology; epithelium; enzymes; gallbladder neoplasms; immunology..antibodies; intestinal neoplasms..colon neoplasms; intestines; metaplasia; mucin; stomach neoplasms

CA-06045 ANDERSON, W.A.D., Sch. Med., Univ. Miami, Coral Gables, Fla.
prostate neoplasms; radioisotopes..zinc 65; zinc; reproductive system, male; dietary deficiency; viruses.. oncogenic viruses; transplantation..heterotransplantation; Rous sarcoma; brain neoplasms; host--virus; infectious diseases; haptoglobin; inflammation; bacteria.. Streptococcus; virulence, microorganisms; streptokinase; diarrhea..infectious diarrhea; intestines; testis neoplasms; cadmium; carcinogenesis inhibitors; carcinogenesis; carcinogens

CA-06081 FITZGERALD, PATRICK J., State Univ. New York, Downstate Med. Cr., Brooklyn, N.Y.
calcification; dietary deficiency; electron microscopy; immunology..complement; kidney; magnesium; myocardial fibrosis; myocardial infarct; pancreas; regeneration; stress

CA-06089 TATUM, HOWARD J., Univ. Oregon Med. Sch., Portland, Ore.
oxygen tension; neoplasms transplantation; Ehrlich ascites carcinoma; lymphosarcoma 6C3HED; hypoxia; ascites tumors; atmospheric pressure; environment

CA-06111 DOBSON, RICHARD L., Sch. Med., Univ. Oregon, Portland, Ore.
carcinogenesis; 2--aminoanthracene; skin neoplasms; cytology; injuries..wound healing; primates..Macaca mulatta; connective tissue

CA-06115 MIDGLEY, A. REES, Jr., Med. Sch., Univ. Michigan, Ann Arbor, Mich.
cell differentiation; chorionic gonadotropins; trophoblast; antigonadotropic agents; carcinogenesis; choriocarcinoma; hormones; pregnancy..placenta; immune sera; pituitary gland; LH

CA-06162 SHUBIK, PHILIPPE, Chicago Med. Sch., Chicago, Illinois
carcinogens; carcinogenesis; carcinogenesis inhibitors; glass; implants; sarcoma; teflon

CA-06163 SAFFIOTTI, UMBERTO, Chicago Med. Sch., Chicago, Ill.
o-aminoazotoluene; aromatic amines; benzidine; p-biphenylamine; carcinogenesis; carcinogens; diet; metabolites; B-naphthylamine; urinary bladder neoplasms

CA-06215 FURTH, JACOB, Francis Delafield Hosp., New York, N.Y.
neoplasms; pituitary hormones; carcinogens; breast neoplasms; prolactin; carcinogenesis; thyroid neoplasms; thyrotropin; viruses..oncogenic viruses; adrenal glands neoplasms; ACTH; radiation effects; hormones; pituitary neoplasms; pituitary gland

CA-06222 ESCHENBRENNER, ALLEN B., Ga. Inst. Tech., Atlanta, Ga.
boron; cell types; neoplasms; radiation therapy

CA-06240 LIEBELT, ROBERT A., Col. Med., Baylor Univ., Houston, Texas
adrenalectomy; antineoplastic agents; carcinogenesis; chemical structure--biological activity; genetic strains; gonadectomy; urethan; urethan analogs

CA-06285 SINNHUBER, RUSSELL O., Sch. Agr., Oregon State Univ., Corvallis, Ore.
liver; hepatoma; diet; lipids; carcinogens; carcinogenesis; oxidation..auto-oxidation; cottonseed oil; fish oils; gossypol; fatty acids; cyclopropene carboxylic acids

CA-06311 POPOVIC, VOJIN, Sch. Med., Emory Univ., Atlanta, Ga.
extracorporeal circulation; freezing; hypothermia; microwave heating; radiation therapy; sarcoma; x-rays

CA-06321 BOSCHETTI, ANTONIO E., Holy Ghost Hosp., Cambridge, Mass.
leukemia..myeloid leukemia; radiation effects..whole body radiation; chloroma; cytology; carcinogenesis

CA-06368 STEMBRIDGE, VERNIE A., Sch. Med., Univ. Texas, Dallas, Tex.
neoplastic cells; cell differentiation; neoplasms invasiveness; cell components..cell nucleus; cell components.. mitochondria; enzymes; basement membrane; deoxyribonucleic acid; ribonucleic acid; cell components..endoplasmic reticulum; cell components..lysosomes; viruses.. oncogenic viruses; neoplasms classification

CA-06381 MATOVINOVIC, JOSIP, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
thyroid gland; goiter; thyroid neoplasms; dietary deficiency; thyroid hormones; nucleic acid; iodine; neoplasms transplantation

CA-06386 EPSTEIN, JOHN H., San Francisco Med. Cr., Univ. California, San Francisco, Cal.
ultraviolet rays; radiation effects; carcinogens; carcinogenesis; skin neoplasms; irritants..skin irritants

CA-06425 BENSON, WALTER R., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
ethionine; carcinogenesis; breast neoplasms; ovariectomy; pancreas neoplasms; salivary glands neoplasms; stomach neoplasms; AAF; 7,12--dimethyl--1,2--benzanthracene

CA-06477 KINOSITA, RIOJUN, City Hope Med. Cr., Duarte, Cal.
4--nitroquinoline N--oxide; lymphoma; ascites tumors; carcinogenesis; cell--free systems; neoplasms; transplantation; viruses..oncogenic viruses; breast neoplasms; lung neoplasms; genetics..chromosomes

CA-06541 WATSON, MICHAEL L., Sch. Med., Univ. Rochester, Rochester, N.Y.
electron microscopy; heavy metals; nucleic acids; organometallic compounds; proteins; staining

CA-06576 NOVIKOFF, ALEX B., Albert Einstein Col. Med., New York, N.Y.
cell components..organelles; phosphatases; carcinogenesis; hepatoma Novikoff; ascites tumors; ferritin labeled antibody technique; hepatoma; electron microscopy; liver; cell death; nerves..neurons; kidney cells; cell components..lysosomes; cell components.. Golgi apparatus

CA-06588 JACKSON, LAIRD G., Jefferson Med. Col., Philadelphia, Pa.
bone marrow; carcinogens; deoxyribonucleic acid replication; genetics..chromosomes; leukemia; radioautography; thymidine; tritium

CA-06591 NISHIMURA, EDWIN T., Sch. Med., Northwestern Univ., Chicago, Ill.
catalase; neoplastic growth; electron microscopy; granuloma; Ehrlich ascites carcinoma; liver cells; talc; enzymes..isoenzymes; blood cells..erythrocytes

CA-06597 MORI-CHAVEZ, PABLO, Laboratory Cancer, Lima, Peru
altitude; neoplasms; transplantation; carcinoma 678 (ascitic); metastasis; hemangioendothelioma; radiation effects; cell division; leukemia; carcinogenesis

CA-06653 HARRIS, CHARLES, Gerontological Res. Inst., Philadelphia, Pa.
age; breast neoplasms; carcinogenesis; carcinoma; dosage; hormones; methylcholanthrene; sex difference

CA-06658 MANDL, INES, Col. Phys., Surg., Columbia Univ., N.Y.C.
cortisone; cystadenocarcinomas; host-neoplasm; neoplasms classification; ovary neoplasms; proteases; radiation effects; transplantation..heterotransplantation; x-rays

CA-06684 TOTO, PATRICK D., Sch. Dent., Loyola Univ., Chicago, Ill.
blood cells..plasma cells; cell differentiation; lymphatic tissue; radiation effects; radioautography; tritium; Vaccines..Salmonella typhosa vaccine

CA-06700 MADDEN, ROBERT E., New York Med. Col., New York, N.Y.
host--neoplasm; stroma; Walker carcinoma 256; neoplastic growth; neoplasms invasiveness; radiation effects; x--rays; lathyrism; aminopropionitrile

CA-06743 TUCKER, GABRIEL F., Jr., Temple Univ. Sch. Med., Philadelphia, Pa.
larynx neoplasms; radiation therapy; sectionin

CA-06783 ROBERTSON, DAVID M., Sch. Med., Queen's Univ., Kingston, Ontario, Canada
brain neoplasms; glioblastoma multiforme; inclusion bodies; virus-like particles; electron microscopy; deoxyribonucleic acid; ribonucleic acid

CA-06784 KLEINFELD, RUTH G., Upstate Med. Cr., State Univ., New York, Syracuse, N.Y.
cell components..cell nucleolus; cell components.. cytoplasm; cell division; hepatoma Novikoff; liver cells; neoplastic growth; nucleoproteins; protein-free diet; regeneration; ribonucleic acid; thioacetamide, tritium

CA-06792 SVOBODA, DONALD J., Univ. Kansas Med. Cr., Kansas City, Kans.
laboratory facilities; electron microscopy; liver damage; carcinogenesis; liver diseases; stomach neoplasms; adenocarcinoma; protozoa..Encephalitozoon cuniculi; neoplasms; liver cells; nutrition

CA-06793 GREEN, HOWARD, Sch. Med., New York Univ., N.Y.C.
carcinogenesis; cell culture; culture media; fibroblasts; growth factors; L-cells; neoplastic growth; viruses..polyoma virus

CA-06828 SPJUT, HARLAN J., Sch. Med., Baylor Univ., Houston, Texas
angiography; carcinogenesis; carcinoma; colostomy; 3,2'-dimethyl-4-aminobiphenyl; electron microscopy; feces; intestinal neoplasms..colon neoplasms; intestinal polyps..colon polyps; neoplastic growth; radiography

CA-06885 WINSHIP, THEODORE, Washington Hosp. Cr., Washington, D.C.
thyroid gland; thyroid gland disorders; electron microscopy; epithelium; basement membrane; capillaries; goiter..exophthalmic goiter; hormones; phosphomonoesterases..acid phosphatase; parathyroid glands

CA-06897 KENYON, ALAN J., Col. Agr., Univ. Connecticut, Storrs, Conn.
mast cells hyperplasia; mast cells neoplasms; heparin; lipases..lipoprotein lipase; histamine; veterinary medicine; blood..serum; histamine releasing compound 48/80; antihistamines; stilbamidine; adrenal cortex hormones

CA-06902 YEH, SHU, Col. Med., National Taiwan Univ., Republic China, Taipei, Taiwan
carcinogenesis; arsenic; epidemiology; ethnic groups.. Chinese; geographical sites..Formosa; epidermoid carcinoma; basal cell carcinoma; poisoning; water supply; primates..monkeys; skin neoplasms; keratosis; Bowen's disease; vascular disorders; mammals; fish

CA-06928 POOL, ROBERT S., Bowman Gray Sch. Med., Winston-Salem, N.C.
skin; nevus, pigmented; skin neoplasms; basal cell carcinoma; cell differentiation; melanocytes; carcinogenesis; sensory mechanisms

CA-06946 SHERWIN, RUSSELL P., Sch. Med., Univ. Southern California, Los Angeles, Cal.
bronchogenic carcinoma; tissue culture; sectioning; carcinogenesis; giant cell carcinoma, pulmonary; spindle cell carcinoma, pulmonary; neoplasms classification; neoplastic growth; mucopolysaccharides; cell components ..cytoplasm

CA-06947 SIEGLER, RICHARD, Albert Einstein Med. Cr., Philadelphia, Pa.
thymus neoplasms; lymphoma; viruses..leukemia viruses; carcinogens; radiation effects; carcinogenesis; estrogens; 7,12-dimethyl-1,2-benzanthracene; urethan; 3-methylcholanthrene

CA-06981 ARCHER, FRANCIS L., Sch. Med., Univ. Chicago, Ill. cell aggregation; cell culture; cell differention; culture media; enzymes; neoplasms; organ culture

CA-06993 FRIEDELL, GILBERT H., New England Deaconess Hosp., Boston, Mass.
anemia; blood cells..erythrocytes; Coombs test; fibrosarcoma; hematology; immunology..antigen-antibody reactions; liver; melanoma; necrosis; neoplastic growth; radiolabeled chromium; radiolabeled iron; reticuloendothelial system; spleen

CA-07007 TOTH, BELA, Chicago Med. Sch., Chicago, Ill. carcinogenesis; infant animals..newborn; 9,10--dimethyl--1,2--benzanthracene; carcinogens

CA-07030 HORTON, A. WESLEY, Med. Sch., Univ. Oregon, Portland, Ore.
skin neoplasms; hypersensitivity; 2,4-dinitrochlorobenzene; hydrocarbons; alcohols; croton oil

CA-07060 RICHART, RALPH M., Col. Phys., Surg., Columbia Univ., New York, N.Y.
uterus neoplasms..cervix neoplasms; genetics..chromosomes; cytology; latent cancer; cell dedifferentiation; carcinogenesis; cell division..mitosis; pregnancy

(contd)

PATHOLOGY (CONTD)

CA-07081 WITTNER, MURRAY, Albert Einstein Col. Med., Bronx, N.Y.
Ehrlich ascites carcinoma; mutation; genetics..chromosomes; neoplastic growth; nutrients; enzymes; carcinogenesis; hyperoxia; tissue respiration; atmosphere

CA-07114 MOLOMUT, NORMAN, Waldemar Med. Res. Fdn., Port Washington, N.Y.
carcinogenesis; carcinogens; cell components..ribosomes; Ehrlich ascites carcinoma; fractionation; immunity; Sarcoma I; serology; transplantation; ultracentrifugation; virus-like particles; viruses..oncogenic viruses

CA-07124 GASS, GEORGE H., Grad. Sch., Southern Illinois Univ., Carbondale, Ill.
carcinogenesis; diethylstilbestrol; dosage; breast neoplasms; gonadectomy; estrus cycle

CA-07140 ALTMAN, AARON, Montefiore Hosp., New York, N.Y.
cancer chemotherapy; 5--fluorouracil; mucous membrane; stomach; stomach neoplasms; intestines..jejunum; intestines..colon; intestinal neoplasms; tritium; enzymes; proteins; pyrimidine

CA-07149 KORSON, ROY, Sch. Med., Univ. Vermont, Burlington, Vt.
electron microscopy; staining; cell components..cell nucleus; cell division..mitosis; neoplastic cells; nucleic acids

CA-07160 DURAN-REYNALS, MARIA L., Albert Einstein Col. Med., New York, N.Y.
carcinogenesis; skin neoplasms; transformation; viruses..vaccinia virus; 3--methylcholanthrene; cortisone; carcinogens; immunology..antigens; immunology..antibodies; virus replication; serology

CA-07178 GOLDBERG, ARTHUR F., Hosp. for Joint Diseases, New York, N.Y.
blood cells; leukemia; myeloma, bone marrow..multiple myeloma; lymphoma; cell components..mitochondria; cell components..cell membrane; phosphatases..adenosine triphosphatase; oxidation; hydrolases; infectious diseases; bacteriolysis; cell components..lysosomes

CA-07189 BARNES, FREDERICK W., Jr., Brown Univ., Providence, R.I.
transplantation..homotransplantation; blood proteins.. serum proteins; skin transplantation; neoplasms; proteins; aminotransferase; heart; liver; enzymes.. isoenzymes; oxidoreductases

CA-07212 CANTAROW, ABRAHAM, Sch. Med., Jefferson Med. Col., Philadelphia, Pa.
AAF; carcinogenesis; carcinogens; cell components.. chromatin; deoxyribonucleic acid; diet; genetics..gene conversion; hepatoma 3924C Morris; liver cells; liver neoplasms; ribonucleic acid; transformation

CA-07215 SALWEN, MARTIN J., Sch. Med., Yale Univ., New Haven, Conn.
transformation; leukemia; lymphoma; neoplasms transplantation; immunity; complement--fixation tests; anaphylaxis..passive anaphylaxis; membrane permeability and transport

CA-07236 CARRUTHERS, CHRISTOPHER, Roswell Park Mem. Inst., Buffalo, N.Y.
carcinogens; cell components..intercellular bridges; cell components..tonofibrils; cell differentiation; immunology..antibodies; keratohyalin; methylcholanthrene; papilloma; proteins; skin; squamous cell carcinoma

CA-07261 ASHLEY, CHARLES A., Mary Imogene Bassett Hosp., Cooperstown, N.Y.
carcinogenesis; skin neoplasms; carcinogens; 3-methylcholanthrene; 7,12-dimethyl-1,2-benzanthracene; collagen; connective tissue; fibroblasts; electron microscopy; laboratory facilities; albumins..serum albumins; liver cells; cell components..endoplasmic reticulum

CA-07278 SHUBIK, PHILIPPE, Chicago Med. Sch., Chicago, Illinois
aromatic compounds; blood vessels; cortisone; hydrocarbons; metastasis; neoplasms; transplantation

CA-07287 VON HAAM, EMMERICH, Col. Med., Ohio State Univ., Columbus, Ohio
neoplastic cells; cytodiagnosis; blood; diagnostic tests; cancer

CA-07289 CLENDENNING, WILLIAM E., University Hosp., Cleveland, Ohio
carcinogenesis; croton oil; 9,10-dimethyl-1,2-benzanthracene; enzymes inhibitors; growth; hair; infants (animals)..newborn; methotrexate; radiation effects; reductases..folic acid reductase; skin neoplasms; ultraviolet rays; urethan

CA-07290 STEVENS, DEAN F., Worcester Fdn., Shrewsbury, Mass.
growth factors; ascites tumors; multinucleated cells; estrogens; cancer; diagnostic tests; blood..serum; blood cells..thrombocytes; tritium

CA-07294 DAVIS, HAROLD T., Southwest Fdn. Res. and Educ., San Antonio, Texas
carcinogenesis; instrumentation-methodology; radiation effects; skin neoplasms; ultraviolet monochromator; ultraviolet rays

CA-07312 TYE, RUSSELL, Col. Med., Univ. Cincinnati, Cincinnati, Ohio
aerosols; air pollution; carcinogenesis; carcinogens; coal tar; hyperplasia; lung; lung neoplasms; metaplasia; phenols; squamous cell carcinoma;

CA-07318 KABARA, JON J., Univ. Detroit, Detroit, Michigan
cholesterol; Ehrlich ascites carcinoma; steroids; histochemistry; radioautography

CA-07321 SYDNOR, KATHERINE L., Univ. Kentucky Med. Cr., Lexington, Ky.
breast neoplasms; carcinogenesis; carcinogenesis inhibitors; carcinogens; 7,12-dimethyl-1,2-benzanthracene; drugs resistance; enzymes; estradiol; genetic strains; 3-methylcholanthrene; ovariectomy; progesterone; pyrimidine; thymine; tritium

CA-07398 TESSLER, ARTHUR N., New York Univ. Med. Cr., New York, N.Y.
oxydoreductases..lactate dehydrogenase; blood.. serum; urinary tract neoplasms; urinary tract disorders; carcinogens; diagnostic test

CA-07465 SIDRANSKY, HERSCHEL, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
carcinogenesis inhibitors; 6-hydroxyprogesterone; liver neoplasms; carcinogenesis; carcinogens; AAF; ethionine; 3-methyl-diethyl-aminoazobenzene; diet; epithelium; bile ducts; liver; ribonucleic acid; binding; adenosine triphosphate

CA-07468 MELNICK, P.J., Univ. California Med. Cr., San Francisco, Cal.
neoplasms; histochemistry; enzymes; enzymes substrate; NAD; NADP; NAD analogs; freezing

CA-07477 GOLDSTEIN, MILTON N., St. Jude Hosp., Memphis, Tenn.
neuroblastoma; neoplastic growth; cell differentiation; sympatholytic agents; nerve growth promoting protein, sympathetic; deoxyribonucleic acid; ribonucleic acid; proteins; tritium; nerves..axons

CA-07487 WANG, HARRY, Stritch Sch. Med., Loyola Univ., Chicago, Ill.
protozoa..Paramecium; cell components..ciliary movement; toxins; smoking

CA-07490 DACHI, STEPHEN F., Col. Dent., Univ. Kentucky, Lexington, Ky.
carcinogenesis; mouth neoplasms; carcinogens; dibenzanthraceneS; methylcholanthrene; urethan; polyoxyethylene sorbitan monostearate; injury..surgical wounds; trauma; electrocautery; anemia

CA-07512 RADOMSKI, JACK L., Sch. Med., Univ. Miami, Coral Gables, Fla.
carcinogenesis; carcinogens; chemical structure--biological activity; metabolites; naphthylamines; radiolabeled carbon; urinary bladder neoplasms

CA-07527 SCHOLES, VERNON E., Grad. Sch., North Texas State Univ., Denton, Texas
phosphorus; cancer; skin; liver; spleen; lymph; methylcholanthrene; squamous cell carcinoma; papilloma; radiolabeled phosphorus; prediction; diagnostic tests

CA-07528 MILLER, BERNARD J., Daniel Baugh Inst. Anatomy, Jefferson Med. Col., Philadelphia, Pa.
arterial infusions; bronchogenic carcinoma; lung neoplasms; metastasis; folic acid antagonists; folic acid; antineoplastic agents; pulmonary circulation; blood circulation dynamics

CA-07538 FISHMAN, WILLIAM H., New England Cr. Hosp., Boston, Mass.
staining; diagnostic tests; carbohydrases beta--glucuronidase; phosphomonesterases.. alkaline phosphatases; esterases; enzyme substrate; endocrine glands; diet; fats; carcinogenesis

CA-07587 MADDEN, ROBERT E., New York Med. College, N. Y. C. neoplasms invasiveness; ascites tumors; Walker carcinoma 256; blood circulation dynamics; muscle; lung; liver; kidney; arteries; epinephrine; acetylcholine; cortisone; carbohydrases..neuraminidase

CA-07613 RUBINI, JOSEPH R., V.A. Hosp., Coral Gables, Fla. cancer; blood cells; bone marrow; deoxyribonucleic acid; tritium

CA-07681 SMITH, WILLIAM E., Hlth. Res. Inst., Fairleigh Dickinson Univ., Madison, N.J. asbestos; benzopyrenes; carcinogenesis; carcinogens; 7,12-dimethyl-1,2-benzanthracene; lung neoplasms

CA-07700 DUHIG, JAMES T., Cancer Res. Inst., Boston, Mass. carcinogenesis; sarcoma; carcinogens; 3-methylcholanthrene; radioisotopes..strontium 90; immunology..isoantigens; transplantation immunology; thymectomy

CA-07726 JONES, E. ELIZABETH, Children's Cancer Res. Fdn., Boston, Mass.
mammary gland; adrenal glands neoplasms; gonadectomy; infant, animals..newborn; pituitary neoplasms; prolactin; thyroid neoplasms; neoplastic growth; genetics..hybrids; islands of Langerhans adenoma; adrenal medulla neoplasms

CA-07734 BRAUNSTEIN, HERBERT, Univ. Cincinnati, Cincinnati, Ohio
neoplasms; enzymes; cell types

CA-07737 RAY, FRANCIS E., Sch. Pharm., Univ. Florida, Gainesville, Fla.
carcinogens; chemical structure--biological activity; reaction sites; nitrogen compounds; fluorenes; tritium

CA-07765 WENTZ, WILLIAM B., Hahnemann Med. Col., Philadelphia, Pa.
uterus..endometrium; uterus hyperplasia; uterus neoplasms; carcinogenesis; therapy evaluation; antineoplastic agents; sex hormones; radiation therapy; neoplasms invasiveness

CA-07766 MORGAN, WINFIELD S., Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
diagnostic tests; pancreas neoplasms; dyes; neutral red; radiolabeled iodine; synthesis; iodination; chemical structure--biological activity

CA-07767 PREHN, RICHMOND T., Sch. Med., Univ. Washington, Seattle, Wash.
carcinogenesis; carcinogens; polycyclic compounds; hydrocarbons; urethan; croton oil; carbon tetrachloride; methylcholanthrene; toxins; muscle; leiomyosarcoma; radioisotopes..radon; radiation effects

CA-07771 SHIMKIN, MICHAEL B., Sch. Med., Temple Univ., Philadelphia, Pa.
carcinogenesis; breast neoplasms; carcinogens; 3-methylcholanthrene; carcinogenesis inhibitors; steroids; enzymes; pancreatectomy; thyroidectomy; irritants

CA-07788 DELMONTE, LILIAN, Col. Med., Baylor Univ., Houston, Tex.
host-neoplasm; leukocytosis; neoplasms transplantation; breast neoplasms; radiation effects..whole body radiation; alkylating agents; antimetabolites; hormones; x-rays; hypophysectomy; adrenalectomy; gonadectomy; thyroidectomy; hepatectomy; nephrectomy; genetic strains

CA-07791 HOLYOKE, EDWARD D., Roswell Park Mem. Inst., Buffalo, N.Y.
metastasis; breast neoplasms; cortisone; mechanical pressure; blood coagulation..anticoagulants; radiation effects; transplantation immunology; mitomycin C; thio-TEPA

CA-07828 HUKILL, PETER B., Sch. Med., Yale Univ., New Haven, Conn.
connective tissue neoplasms; mucopolysaccharides; mucin; ground substance; metastasis; neoplasms classification

CA-07833 HADDAD, MICHAEL N., Sch. Med., Emory Univ., Atlanta, Ga.
bone marrow; cell differentiation; cell components; enzymes; lipids; carbohydrates; proteins

CA-07840 KANCZAK, NORBERT M., Col. Med., Ohio State Univ., Columbus, Ohio
carcinogenesis; urinary bladder neoplasms; carcinogens; naphthylamines; metabolites; enzymes; tritium

CA-07846 CASTOR, LAROY N., Biochemical Res. Fdn., Newark, Del.
carcinogenesis; transformation; tissue culture; neoplastic growth; Ehrlich ascites carcinoma; tissue respiration; mutations; genetics..chromosomes; cytochrome; pyridine nucleotides

CA-07849 TWEEDELL, KENYON S., Col. Sci., Univ. Notre Dame, Notre Dame, Ind.
carcinogenesis; kidney neoplasms; Lucke renal adenocarcinoma; cell-free systems; viruses..oncogenic viruses; metamorphosis; neoplasms transplantation

CA-07874 MISUGI, KAZUAKI, Children's Hosp., Columbus, Ohio
neoplasms; electron microscopy; children; histogenesis

CA-07882 RODIN, ALVIN E., Sch. Med., Univ. Texas, Galveston, Tex.
brain..pineal body; neoplastic growth; Walker carcinoma 256; cell components..granules; lipids

CA-07883 IBSEN, KENNETH H., California Col. Med., Los Angeles, Cal.
oxygen consumption; Crabtree effect; hexoses; Ehrlich ascites carcinoma; liver cells; blood cells..leukocytes; enzyme inhibitors; enzyme substrate; neoplastic cells

CA-07884 JUNGEBLUT, CLAUS W., Lenox Hill Hosp., N.Y.C.
leukemia..guinea pig leukemia L2C; viruses.. leukemia viruses; viruses..LCM virus; carcinogens; immunology..antigen-antibody reactions; neoplasms transplantation; cell-free systems; virus-like particles; genetics

CA-07900 JACKSON, JOHN F., Univ. Mississippi Med. Cr., Jackson, Miss.
blood cells..leukocytes; carcinogenesis; cell division; cysteine; genetics..chromosomes; sulfhydryls

CA-07904 WELSH, RONALD A., Sch. Med., Louisiana State Univ., New Orleans, La.
neoplasms; electron microscopy; neoplasms classification; diagnostic tests; histogenesis

CA-07914 LIEBELT, ANNABEL, Col. Med., Baylor Univ., Houston, Tex.
carcinogenesis; hepatoma; carcinogens; methylcholanthrene; urethan; viruses..oncogenic viruses; hormones; neoplasms transplantation; cell--free system; infant animals..newborn; reticulum cell sarcoma; genetic strains

CA-07924 CAVAZOS, LARRY F., Sch. Med. Tufts Univ., Boston, Mass.
kidney neoplasms; carcinogenesis; estrogens; enzymes; body weight; pituitary gland

CA-07957 DAVIES, RONALD E., Skin and Cancer Hosp., Philadelphia, Pa.
carcinogenesis; papilloma; carcinogens; dibenzanthracenes; vitamin A; genetics..genes; diet; cell division--mitosis; skin; congenital abnormalities

CA-07966 MORTON, JULIA F., Col. Arts, Sci., Univ. Miami Coral Gables, Fla.
esophagus neoplasms; carcinogens; ecology, human; plants; survey; toxicology; geographical sites.. West Indies

CA-07972 PINKERTON, HENRY, Sch. Med., St. Louis Univ., St. Louis, Mo.
viruses..oncogenic viruses; neoplastic cells; tissue culture; leukemia..acute leukemia; glioma; Hodgkin's disease; Letterer--Siwe's disease; neuroblastoma; retinoblastoma; sarcoma; myeloma; bone marrow; infant human; culture media; interferon; L--cells; infant animals, newborn

CA-07977 HANDLER, EUGENE S., Hunter Col., City Univ. New York, New York, N.Y.
blood cells..neutrophil leukocytes; leukemia..acute leukemia; leukemia..myeloid leukemia; chloroma; endotoxins; spleen; bone marrow; exudates; peritoneal cavity; splenectomy; leukocytosis--inducing factor

CA-07978 POTTER, JOHN F., Georgetown Univ. Med. Cr., Washington, D.C.
neoplasms invasiveness; cell migration; melanoma; metastasis; blood vessels; endothelium permeability and transport; potentials..membrane potentials

CA-07981 FREEDMAN, HOWARD H., Woman's Med. Col. Pennsylvania, Philadelphia, Pa.
uterus neoplasms..cervix neoplasms; carcinoma protozoa..Trichomonas vaginalis; carcinogenesis; 3,4--benzpyrene

CA-07991 KASTEN, FREDERICK H., Pasadena Fdn. Med. Res., Pasadena, Cal.
electron microscopy; cell components..cytoplasm; cell components..mitochondria; deoxyribonucleic acid; neoplastic cells; tissue culture; reaction sites; tritium

CA-08008 SUTTON, CARL H., Montefiore Hosp., Bronx, N.Y.
glioma; pinocytosis; antineoplastic agents; membrane permeability and transport; foreign proteins; radiation effects; hyperglobulinemia; hydrocortisone; binding; immunology

CA-08033 GROSS, PAUL, Mellon Inst., Pittsburgh, Pa.
lung; lung neoplasms; carcinogens; 9,10--dimethyl--1,2--benzanthracene; radiation effects

CA-08045 BROOME, JOHN D., New York Univ. Med. Cr., New York, N.Y.
cell culture; neoplastic cells; asparagine; cell differentiation; antineoplastic agents; amidohydrolases..asparaginase; blood..serum; genetics; hepatoma; carcinogens; nitrosodiethylamine

CA-08049 MOORE, ALICE E., Sloan-Kettering Inst. Cancer Res., New York, N.Y.
cell movement; fibroblasts; blood cells..lymphocytes; blood cells..leukocytes; lymphatic tissue; lymphoma; neoplastic cells; viruses..H--1 virus; immunity.. hyperimmunization

CA-08050 KOPROWSKA, IRENA, Hahnemann Med. Col., Hosp., Philadelphia, Pa.
uterus neoplasms..cervix neoplasms; 3--4 benzpyrene; carcinogens; transformation; genetics..karyograms; neoplasms transplantation; tissue culture; population dynamics..cell

CA-08055 HIGGINSON, JOHN, Univ. Kansas Med. Cr., Kansas City, Kans.
carcinogenesis; liver neoplasms; carcinogens; drugs interaction; p--dimethylaminoazobenzene; nitrosamines; AAF; choline; ethionine; diet; hepatectomy; genetics..chromosomes; liver cells

CA-08075 VON MICSKY LAJOS I., Col. Phys., Surg., Columbia Univ., New York, N.Y.
ultrasonics; pelvis neoplasms; diagnostic tests

CA-08100 BETTS, ANTHONY, Warren Inst. Pathology, Portland, Me.
necrosis; cancer; cell death; anemia; blood cells..erythrocytes; immunology..antibodies; cell components..cell erythrocytes; immunology..antibodies; cell components.. cell membrane; globulins..serum globulins; immunological tests

CA-08105 KENYON, ALAN J., Col. Agr., Univ. Connecticut, Storrs, Conn.
mast cells hyperplasia; mast cells neoplasms; heparin; lipases..lipoprotein lipase, histamine; veterinary medicine; blood..serum; histamine releasing compound 48/80; antihistamines; stilbamidine; adrenal cortex hormones

CA-08112 MAO, PETER T.H., Albert Einstein Col. Med., Bronx, N.Y.
prostate; prostate hypertrophy; prostate neoplasms; 17--alpha--hydroxyprogesterone caproate; therapy evaluation

CA-08158 WELLINGS, S.R., Sch. Med., Univ. Oregon, Portland, Ore.
papilloma; fish; tissue culture; neoplasms transplantation; eye..anterior chamber; cell--free systems; genetics..karyograms; carcinogens; embryology; viruses..oncogenic viruses

CA-08160 LAMPE, KENNETH F., Sch. Med., Univ. Miami, Miami, Fla.
nitro olefins; carcinogens; combustion exhausts; lung; proteins; binding

CA-08185 FOLKMAN, MOSES J., Boston City Hosp., Boston, Mass.
organ culture; perfusion; cell--free systems; neoplasms transplantation; neoplasms invasiveness; metastasis; neoplastic cells; antineoplastic agents; cohesion; transplantation immunology; blood vessels revascularization

CA-08186 RAY, FRANCIS E., Univ. Florida, Gainesville, Fla.
carcinogens; synthesis; fluorenes; chemical structure--biological activity; gastrointestinal neoplasms; carcinoma; neoplasms transplantation; carcinogenesis

PATHOLOGY (CONTD)

CA-08187 ADAMS, EUGENE W., Sch. Vet. Med., Tuskegee Inst., Tuskegee Institute, Ala.
viruses..venereal sarcoma virus canine; immunology; instrumentation--methodology; reproductive system neoplasms; genetics

CA-08190 HALPRIN, KENNETH M., Sch. Med., Univ. Oregon, Portland, Ore.
skin; epidermoid carcinoma; keratosis; radiation effects; ultraviolet rays; carcinogenesis; glucose

CA-08197 de ALVAREZ, RUSSEL R., Temple Univ. Hosp., Philadelphia, Pa.
phospholipids; lecithins; sphingomyelins; cephalins; lysophospholipids; pregnancy..postpartum; reproductive system..female; neoplasms; pregnancy toxemias and hypertension; nephritis; diabetes

CA-08201 PIERCE, G. BARRY, Jr., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
basement membrane; histogenesis; neoplasms transplantation; breast neoplasms; ovary neoplasms; adenocarcinoma; immunology..antigen--antibody reactions; ascites tumors; ferritin labeled antibody technique; tritium; amino acids; carbohydrates

CA-08202 GOLDFARB, STANLEY, Beth Israel Hosp., New York, N.Y.
liver hyperplasia; carcinogens; 3'--methyl--4--dimethylaminoazobenzene; diet; hepatoma; choline esterase; oxidoreductases..glucose--6--phosphate dehydrogenase; oxidoreductases..NADPH2 diaphorase; oxidoreductases..succinate dehydrogenase; hepatectomy; tritium; carcinogenesis

CA-08203 FELIX, MARIE D., Lenox Hill Hosp., New York, N.Y.
cytology; peritoneum; mesentery; ascites; neoplastic growth; mesothelium; ascites tumors; macrophages; primates..monkeys

CA-08204 MOORE, GEORGE E., Roswell Park Mem. Inst., Buffalo, N.Y.
leukemia; cell culture; neoplastic growth; culture media; genetics; nutrients; deoxyribonucleic acid replication; tritium; thymidine

CA-08252 STIDWORTHY, GEORGE H., Veterans Admin. Hosp., Bedford, Mass.
radiolabeled sulfur; neoplasms; body fluids; mucoproteins; mucopolysaccharides; mathematical models

CA-08254 PRICE, J.M., University Hosps., Madison, Wis.
veterinary medicine; urinary bladder neoplasms; cattle; geographical sites..Asia; feeding; ferns; carcinogens; hematuria

CA-08306 ARNOLD, EUGENE A., Jr., Johns Hopkins Hosp., Baltimore, Md.
neoplasms; metastasis; genetics..genome; immunology.. antigens; messenger ribonucleic acid; proteins; hepatoma; carcinoma; lymphosarcoma

CA-08310 WINKELMAN, JAMES, Sch. Med., New York Univ., New York, N.Y.
porphyrins; porphins; neoplasms; liver; kidney; spleen; enzymes; enzyme substrate; chemical structure

CA-08312 OZZELLO, LUCIANO, Pacific Northwest Res. Fdn., Seattle, Wash.
stroma; fibroblasts; metastasis; epithelium; estradiol; progesterone; cortisone; somatotropin

CA-08315 MELNYKOVYCH, GEORGE, Veterans Admin. Hosp., Kansas City, Mo.
HeLa cells; prednisolone; enzymes; phosphomonoesterases..alkaline phosphatase; ribonucleic acid; glycolysis; growth

CA-09546 SEGAL, HARRY L., Sch. Med., Univ. Rochester, Rochester, N.Y.
diagnostic tests; stomach neoplasms; enzymes; body fluids; ana

CA-09559 SHUBIK, PHILIPPE, Chicago Med. Sch., Chicago, Ill.
publications..literature survey; carcinogens

CA-09594 COLE, WARREN H., Col. Med., Univ. Illinois, Chicago, Ill.
blood; cancer chemotherapy; cytology; neoplastic cells; surgery; thio-TEPA; urinary tract neoplasms

CA-09599 WATTENBERG, LEE W., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
antineoplastic agents; breast neoplasms; carcinogens; cytology; dehydrogenases; detoxication; diagnostic tests; electron transport enzymes; flavoprotein enzymes; hydroxylases; intestinal neoplasms..colon neoplasms; intestinal polyps..colon polyps; intestines; liver neoplasms; mucous membrane; polycyclic compounds

CA-09617 ALBAUM, HARRY G., Beth Israel Hosp., N.Y.C.
blood..serum; cancer; cancer chemotherapy; diagnostic tests; enzymes

CA-09724 RUSSELL, WILLIAM O., Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
trace elements; breast neoplasms; melanoma; publications..literature survey; emission spectroscopy; documentation systems; hair; diagnostic tests

CA-09761 GROISSER, VICTOR W., Sch. Med., Dent., New Jersey Med. Col., Jersey City, N.J.
esophagus neoplasms; stomach neoplasms; intestines.. duodenum; intestinal neoplasms..colon neoplasms; exfoliative cytology; cytodiagnosis; fluorescence microscopy; diagnostic tests; pancreas neoplasms; biles ducts neoplasms; carcinoma; carbohydrases.. amylases; carboxylic ester hydrolases..arginine esterase

CD-00022 FERGUSON, JAMES H., Jackson Mem. Hosp., Miami, Fla.
vaginal smears; uterus neoplasms; information exchange; cytology; exfoliative cytology; diagnostic tests; epidemiology; longitudinal study

DE-00658 MEYER, JULIA, Sch. Dent., Univ. Illinois, Chicago, Ill.
skin; keratinization; mucous membrane; mouth; respiratory enzymes

DE-01157 GANS, BENJAMIN J., Sch. Dent., Northwestern Univ., Chicago, Ill.
dentistry; growth; bone transplantation

DE-01509 MENSCHIK, ZYGMUNT J.K., Sch. Dent., Georgetown Univ., Washington, D.C.
dietary deficiency; tocopherol; fatty acids; joints..temporomandibular joint

DE-01547 ROSE, GEORGE G., Univ. Texas Dent. Br., Houston, Tex.
cytology; mouth; cell; cell components..cell nucleus; cell division..mitosis; cell components..Golgi apparatus; tissue culture

DE-01592 IRVING, JAMES T., Forsyth Dent. Infirmary, Boston, Mass.
calcification; bone resorption; proteases..papain; vitamin; endocrine glands; growth factors; testosterone; estrogens; transplantation..autotransplantation; dental structure..pulp; diffusion chambers

DE-01703 ROSS, RUSSELL, Sch. Dent., Univ. Washington, Seattle, Wash.
injury..wound healing; electron microscopy; blood cells.. neutrophil leukocytes; blood cells..monocytes; phagocytosis; radiolabeled carbon; amino acid; collagen; peroxidases; fibroblasts; transformation; scurvy

DE-01714 GLICKMAN, IRVING, Sch. Dent. Med., Tufts Univ., Boston, Mass.
dental structure..gingiva; tissue culture; biopsy techniques; epithelium; mucous membrane; mouth; dental disease..gingival disease; cell differentiation

DE-01925 STERN, IRVING B., Sch. Dent., Univ. Washington, Seattle, Wash.
cell components..organelles; dental disease..periodontal disease; electron microscopy; epithelium; keratinization; mouth; mucous membrane

DE-02053 BICKLEY, HARMON C., Univ. Kentucky Med. Cr., Lexington, Ky.
lathyrism; β-aminopropionitrile; lathyrogenic agents; drugs; hormones; L-cells; connective tissue diseases; polysaccharides; proteins; reaction sites; dental disease.. periodontal disease; radiolabeled sulfur; radiolabeled carbon

EF-00091 GOLDWATER, LEONARD J., Sch. Pub. Hlth., Columbia Univ., N.Y.C.
mercury poisoning; occupational hazards; toxicology

EF-00283 MORSE, GUY E., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
mastitis; mammary gland; epithelium; bacterial diseases; phospholipids; bacteria..Streptococcus agalactiae; fatty acids; exfoliative cytology

ES-00021 BASSETTE, RICHARD, Sch. Agr., Kansas State Univ., Manhattan, Kans.
diagnostic tests; organic compounds; body fluids

ES-00058 POPPER, HANS, Mount Sinai Hosp., New York, N.Y.
insecticides..dieldrin; insecticides..aldrin; liver function; liver damage; toxicology; dosage; cell components..mitochondria

GM-06331 KLINKHAMER, JAMES M., Brooks Hosp., Brookline, Mass.
death; freezing; tissue respiration; enzymes; interference microscopy; instrumentation; cryoscopy

GM-06418 SHERMAN, J.K., Univ. Arkansas Med. Cr., Little Rock, Ark.
tissue preservation; freezing; transplantation; tissue respiration; cytology; ice

GM-07009 THORP, WILLIAM T.S., Col. Vet. Med., Univ. Minnesota, St. Paul, Minn.
electron microscopy; veterinary medicine; adrenal glands; blood cells..lymphocytes; aplastic anemia; viruses; bacteria..Mycoplasma; islands of Langerhans; kidney

GM-07188 EPLING, GLENWOOD P., Col. Vet. Med., Colorado State Univ., Fort Collins, Colo.
training; lung..alveolus; bovine high mountain disease; asthma; papilloma; pulmonary emphysema; heart.. myocardium

GM-07219 GANTNER, GEORGE E., Jr., Sch. Med., St. Louis Univ., St. Louis, Mo.
autolysis; autopsy; bacteria; blood cells..leukocytes; cell division..mitosis; contamination; death; forensic medicine; hemolysis

GM-07303 PUCHTLER, HOLDE, Med. Col. Georgia, Augusta, Ga.
elastic tissue; vascular disorders; basement membrane; kidney; connective tissue; sickle cell anemia; amyloidosis; binding; dyes; arteriosclerosis; hemoglobin; phosphomolybdic acid; spleen

GM-07421 WELLS, ARTHUR H., Saint Luke's Hosp., Duluth, Minn.
coding; documentation systems; pathology

GM-07741 DEMPSTER, WILFRED T., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
joints; limbs movement

GM-07744 MOLNAR JOHN J., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
lead poisoning; inclusion bodies; cytopathogenic effect, viral; 2,3-dimercapto-1-propanol; EDTA; therapy evaluation

GM-07796 DIXON, FRANK J., Scripps Clin. Fdn., La Jolla, Cal.
research programs; experimental pathology; immunology.. antigen-antibody reactions; immunology..antibodies; transplantation rejection

GM-07813 KINNEY, THOMAS D., Duke Univ. Med. Cr., Durham, N.C.
education..medical education; interviews; pathologists; research potential

GM-08062 SINEX, F. MAROTT, Sch. Med., Boston Univ., Boston, Mass.
elastin; fluorescence; aging; instrumentation-methodology

GM-08165 LAURIE, HARRY I., Med. Col Virginia, Richmond, Va.
research programs; pathology; medical research

GM-08168 KINNEY, THOMAS D., Duke Univ. Med. Cr., Durham, N.C.
publications, journal; experimental pathology

GM-08574 LACY, PAUL E., Sch. Med., Washington Univ., St. Louis, Mo.
research programs; electron microscopy; tissue culture; viruses; tissue respiration; biochemistry

GM-08703 DECKOFF, STEPHEN L., Booth Mem. Hosp., Flushing, N.Y.
injury..wound healing; HeLa cells

GM-08763 LIANG, DANIEL S., Our Lady of Fatima Hosp., North Providence, R.I.
regeneration; urinary bladder; cystectomy; fibroblasts orders; immunology; infectious diseases; hypersensitivity

GM-09227 GLICK, DAVID, Sch. Med., Stanford Univ., Palo Alto, Cal.
adrenal glands; immunological tests; instrumentation; mast cells; respiratory enzymes

GM-09346 WARNER, EMORY D., Col. Med., State Univ. Iowa, Iowa City, Iowa
blood coagulation; cell components..cell membrane; connective tissue diseases; disease classification; immunology; neoplasms; proteins

GM-09387 ANGEVINE, D. MURRAY, Univ. Wisconsin Med. Sch., Madison, Wis.
N--hydroxy AAF; liver; iminodipropionitrile; nerves.. neurons; pancreas; cell components..organelles; cell components..granules; brain edema; infant human; nerves.. demyelination; capillaries; hypoxia; liver neoplasms; intestinal polyps..rectosigmoid polyps

GM-09487 TUTTLE, O.F., Sch. Mineral Industries, Pennsylvania State Univ., University Park, Pa.
cooperative study; trace elements; tissue; deuterium; leukemia; lymphoma; brain disorders; brain..basal ganglia

GM-09490 EDBERG, SANFORD, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
blood circulation dynamics; brain oscillography; hemorrhage; injury..head injury; intracranial pressure; respiration

GM-09623 BAGGENSTOSS, ARCHIE H., Mayo Assn., Rochester, Minn.
adrenal glands; cytology; heart enlargement; intestines.. jejunum; liver cirrhosis; muscle myofibrils; nephrosis; nerves..demyelination; nervous system..central nervous system; pituitary gland; sprue; vascular idsorders

GM-09628 MALLORY, G. KENNETH, Boston City Hosp., Boston, Mass.
laboratory facilities; cancer; endocrine glands disorders; heart diseases; infectious diseases; liver diseases; gastrointestinal disorders

GM-09666 McMANUS, J.F.A., Sch. Med., Indiana Univ., Bloomington, Ind.
nephritis; immunofluorescence; immunology

GM-09688 TERNER, JACOB Y., Sch. Med., Columbia Univ., New York, N.Y.
staining

GM-09726 WILGRAM, GEORGE F., Massachusetts Gen. Hosp., Boston, Mass.
acantholysis; blisters; collagen; cell components..tonofibrils; melanocytes; pigmentation disorders

GM-09730 SOMMER, JOACHIM R., Duke Univ. Med. Cr., Durham, N.C.
freeze--drying; cytology; cell components; enzymes; cell division

GM-10119 MELLORS, ROBERT C., Hosp. Special Surgery, New York, N.Y.
electron probe x--ray microanalyzer; calcium; phosphorus; sulfur; bone disorders; joints diseases; magnesium

GM-10152 BAUMEL, JULIAN J., Creighton Univ. Med. Sch., Omaha, Nebr.
publications..atlas

GM-10269 FARBER, EMMANUEL, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
anaphylaxis; aspergillosis; carcinogenesis; fatty liver; flavoprotein enzymes; histochemistry; malnutrition; pancreatitis; pathology; pulmonary fibrosis; research programs

GM-10337 SAUNDERS, LEON Z., American Col. Vet. Pathologists, Columbus, Ohio
publications..journal; veterinary medicine

GM-10745 McCRONE, WALTER C., McCrone Research Inst., Chicago, Ill.
cystine; crystallography; cystinosis; diagnostic tests; metabolic disorders inborn

GM-10820 PARNELL, JEROME P., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
cell differentiation; cell division..mitosis; dietary deficiency; epithelium; eye..conjunctiva; eye..cornea; keratinization; vitamin A

GM-10920 KNIGHTS, EDWIN M., Jr., Providence Hosp., Detroit, Mich.
biochemistry; medical research

GM-11262 ORBISON, J. LOWELL, Sch. Med., Univ. Rochester, Rochester, N.Y.
conferences; electron microscopy; instrumentation--methodology; travel; publications

GM-11426 REES, THOMAS D., New York Univ. Med. Cr., N.Y.C.
carcinogenesis; chemical hypersensitivity; dimethylpolysiloxane; prosthesis; skin; toxicology

GM-11794 ROHDE, RUSSELL A., Sch. Med., Loma Linda Univ., Los Angeles, Cal.
congenital abnormalities; genetics, chromosomes; genetics, phenotypes; cytology

GM-11847 SIMBONIS, STANLEY, Col. Phys., Surg., Columbia Univ., N.Y.C.
cell-free systems; enzymes substrate; fetus; genetics; infants, animals..newborn; metabolic diseases, inborn; mutations; phosphomonoesterases..glucose-6-phosphatases; proteins; radiolabeled phosphorus; reaction sites

GM-11886 KAILIN, ELOISE W., Col. Med., Howard Univ., Washington, D.C.
cell components..sex chromatin; cell components..cell nucleus; epithelium; vagina; mouth; age; sex difference; atony; neoplasms; psychoses; stress

GM-11897 BERK, J. EDWARD, California Col. Med., Los Angeles, Cal.
carbohydrases..amylases; molecular structure; reaction sites; morbidity; diagnostic tests; blood, serum

GM-11903 DONAGHY, M. PEARDON, Mary Fletcher Hosp., Burlington, Vt.
lipoproteins; triglycerides; blood flow; oils; blood circulation dynamics; fats; hyperlipemia; adipose tissue; bone marrow

GM-12114 FREIMUTH, HENRY C., Maryland Medical-Legal Fdn., Baltimore, Md.
death; drowning; therapy evaluation; blood transfusion; hemolysis; electrolytes; cardiac glycosides

GM-12023 RICHTER, GOETZ W., Col. Med., Cornell Univ., New York, N.Y.
iron; proteins; kidney disorders; lymphosarcoma; heart.. myocardium; antineoplastic agents; bone marrow; heart enlargement

GM-12224 GANTNER, GEORGE E., Jr., Sch. Med., St. Louis Univ., St. Louis, Mo.
cell division..mitosis; genetics..chromosomes; blood cells leukocytes; drugs interaction, synergism; metabolic diseases; tritium; antimitotic agents; drugs

GM-12399 HOFFMAN, NORMAN E., Marquette Univ., Milwaukee, Wis.
gas chromatography; instrumentation--methodology; carboxylic acids; ketoacids; hydroxy acids; dicarboxylic acids; lactates; methylmalonate; pyruvates; diagnostic tests; phenylketonuria; pernicious anemia

GM-12457 JONES, THOMAS C., Angell Mem. Animal Hosp., Boston, Mass.
laboratory animals; publications, monograph

GM-12488 GOLL, DARREL E., Iowa State Univ., Ames, Iowa
muscle contraction; muscles..myofibrils; myosin; actin; connective tissue; collagen; sulfhydryls; phosphatases..adenosine triphosphate; proteolysis; cell components..lysosomes

GM-12517 JONES, THOMAS C., Angell Mem. Animal Hosp., Boston, Mass.
genetics, chromosomes; veterinary medicine; diagnostic tests; sex differentiation abnormalities; brain disorders; congenital abnormalities; cancer; cell division, mitosis

GM-12545 FARBER, EMMANUEL, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
conferences..international meetings; fatty liver; necrosis; inflammation; amyloidosis; carcinogenesis

GM-12570 FITZGERALD, T.C., Sch. Vet. Med., Auburn Univ., Auburn, Ala.
birds; laboratory animals; life cycle; blood circulatory systems; muscles; respiratory system; gastrointestinal system; reproductive system; nervous system; endocrine glands; sense organs

GM-12650 UNGAR, GEORGES, Col. Med., Baylor Univ., Houston, Tex.
injuries; shock; enzymes; enzyme inhibitors; cell types; mast cells; blood coagulation; kallidin; Frhden-Meyerhof pathway; anti-inflammatory agents

GM-12884 ANIDO, VICENTE, West Virginia Univ. Med. Cr., Morgantown, W. Va.
phosphotransferases..ATP; creatine phosphotransferase; enzymes..isoenzymes; diagnostic tests; myocarditis; myocardial infarct; muscular dystrophy; tocopherols; dietary deficiency; aminotransferases.. aspartate transaminase; oxidoreductases..lactate dehydrogenase; oxidoreductases..β--hydroxybutyrate dehydrogenase

HD-00040 MABRY, C. CHARLTON, Univ. Kentucky Med. Cr., Lexington, Ky.
amino; amino acid; diagnostic tests; instrumentation-methodology; ketoacids; mental retardation; metabolic diseases; paper electrophoresis..high voltage paper electrophoresis; sugar

HD-00041 GETTY, ROBERT, Col. Vet. Med., Iowa State Univ., Ames, Iowa
aging; cardiovascular system; nervous system; reproductive system; epithelium; gastrointestinal system; sense organs; longitudinal study; endocrine glands

(contd)

PATHOLOGY (CONTD)

HD-00042 BRANDES, DAVID, Baltimore City Hosp., Baltimore, Md.
cell components..lysosomes; pigments; enzymes; cell age; cytology; aging

HD-00086 ROSS, MORRIS H., Biochem. Res. Fdn., Newark, Del.
enzymes; longevity; diet; aging; metabolic diseases

HD-00094 FLUHMANN, C. FREDERIC, Presbyterian Med. Cr., San Francisco, Cal.
phagocytes; vagina; uterus..endometrium; pregnancy.. implantation; pregnancy..pseudopregnancy; estrus; macrophages; ovariectomy; estrogens; progesterone; ovary..Graafian follicle

HD-00144 CRAIG, JOHN M., Boston Lying-in Hosp., Boston, Mass.
pregnancy..placental transfer; immunology..antibodies; intestines; membrane permeability and transport; hyaline membrane disease, pulmonary; lung; infants, (human); surface properties; ferritin; kidney..renal tubules; vitamin D

HD-00147 VELARDO, JOSEPH T., Saint Ann Hosp., Cleveland, Ohio
uterus hyperplasia; carcinogenesis; uterus..endometrium; uterus neoplasms; hormones; hormones analogs; carcinogens

HD-00160 COOK, SHERBURNE F., Grad. Sch., Univ. California, Berkeley, Cal.
aging; bone; calcification; bone resorption; fluorides; hypoxia

HD-00172 KELLN, ELMER E., West Virginia Univ. Med. Cr., Morgantown, West Virginia
blood vessels; dental structure..pulp; palate; arteriosclerosis; aging; dental structure..gingiva; tongue; mucous membrane

HD-00247 ERICKSON, CYRUS C., Sch. Basic Med. Sci., Univ. Tennessee, Memphis, Tenn.
kidney disorders; children; infants, human; longitudinal study; therapy

HD-00316 KARELITZ, SAMUEL, Long Island Jewish Hosp., New Hyde Park, N.Y.
blood proteins..plasma proteins; cerebrospinal fluid; family..parents; gamma globulin; mongolism; saliva; tears

HD-00326 RABINOWICZ, THEODORE, Inst. Path., Lausanne, Switzerland
brain, cerebral cortex; embryology; publications, atlas; infants (human), premature infants

HD-00414 SPURRELL, FRANCIS A., Col. Vet. Med., Univ. Minnesota, St. Paul, Minn.
hip dysplasia; genetics; ossification

HD-00416 BROWN, W. JANN, Univ. California, Los Angeles, Cal.
nutrition; longevity; radiation effects..whole body radiation; diet; brain..hypothalamus; obesity; brain..cerebral cortex; nervous system..central nervous system; age; metabolic diseases; eye, retina

HD-00428 HALLMAN, NIILO, Children's Hosp., Univ. Helsinki, Helsinki, Finland
geographical sites..Finland; nephrotic syndrome; congenital abnormalities; maternal-fetal; children; kidney; pregnancy..placenta; globulins; immunology.. antigen-antibody reactions; radiolabeled iodine; medical records

HD-00430 BRIDGES, CHARLES H., Sch. Vet. Med., Texas Agr. Station, College Station, Tex.
hip dysplasia; genetics; veterinary medicine; congenital abnormalities

HD-00442 RISER, WAYNE H., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
hip dysplasia; bone..femur; bone..pelvic bones; muscle; nerves; blood supply; growth; veterinary medicine; radiography

HD-00465 COHEN, JONATHAN, Children's Hosp. Med. Cr., Boston, Mass.
bioassay; foreign bodies; metals; powders; instrumentation--methodology; surgery..postoperative

HD-00490 ROSS, MORRIS H., Biochemical Research Fdn., Newark, Delaware
aging; diet; enzymes; liver; cytology; metabolic diseases

HD-00501 VALDES-DAPENA, MARIE A., St. Christopher's Hosp. for Children, Philadelphia, Pa.
autopsy; infants, human; death..sudden death; socioeconomics; bacteria; adrenal cortex hormones; milk; proteins; immunology..antibodies; epidemiology

HD-00517 JONES, THOMAS C., Angell Animal Hosp., Boston, Mass.
aging; ecology, animal; veterinary medicine

HD-00590 FLINT, J.C., Sch. Vet. Med., Colorado State Univ. Res. Fdn., Fort Collins, Colo.
immunology..isoantibodies; spermatozoa; serology; fertility; deoxyribonucleoproteins

HD-00659 FETTERMAN, GEORGE H., Children's Hosp., Pittsburgh, Pa.
kidney..glomerulus; kidney..renal tubules..kidney disorders; nephrotic syndrome; lead poisoning; microsurgery and microdissection; children; infants, human

HD-00665 REINER, CHARLES B., Sch. Med., Ohio State Univ. Res. Fdn., Columbus, Ohio
heparin; fetus; infants, human, newborn; liver; lung; kidney; pregnancy..placenta; heparin co-factor; blood coagulation, anticoagulants

HD-00666 CALCAGNO, PHILIP L., Sch. Med., Georgetown Univ., Washington, D.C.
age; nephritis; proteinuria; hypoalbuminemia; hypercholesteremia; nephrotoxins; infants (animals)..newborn

HD-00705 FORBES, ANNE P., Massachusetts Gen. Hosp., Boston, Mass.
pituitary gland disorders; hypopituitarism; hyperlipemia; thyroid hormones; steroid hormones; Klinefelter's syndrome; chorionic gonadotropins; gonadotropins; menopause; therapy; immunity..autoimmunity; genetics; diabetes; genetics..sex chromosomes; hypogonadism; sex differentiation abnormalities; congenital abnormalities

HD-00746 BUCKINGHAM, SUE, Babies' Hosp., Columbia-Presbyterian Med. Cr., New York, N.Y.
infant human..newborn; brain..respiratory center; serotonin; norephinephrine; blood cells..thrombocytes; infant animals; stress; pregnancy..childbirth; autonomic agents; hypoxia neonatorum

HD-00807 GROSS, STANLEY J., Sch. Med., Loma Linda Univ., Los Angeles, Cal.
uterus..endometrium; estrogens; progesterone; esterases; ribonucleotporteins; amidases..phosphamidase; carbohydrases..beta-glucuronidase; uterus neoplasm; trophoblast; globulins..serum globulins; albumins..serum albumins; blood groups

HD-00838 ORTEGA, PAUL, Mt. Zion Hosp. and Med. Cr., San Francisco, Cal.
insecticides; DDT; toxicology; food contamination; fetus; infants, animals..newborn; pregnancy; enzymes;; brain; cell components..mitochondria; genetics; reproduction

HD-00839 SELVERSTONE, BERTRAM, New England Cr. Hosp., Boston, Mass.
hydrocephalus; cerebrospinal fluid; infant human; children; oxidoreductases..lactate dehydrogenase; aminotransferase..aspartate transaminase; diagnostic tests; mental retardation; enzymes..isoenzymes; age

HD-00857 PAQUIN, ALBERT J., Jr., Univ. Virginia Hosp., Charlottesville, Va.
diagnostic tests; urinary tract disorders; pyelonephritis; immunology; serology; bacteriuria; bacteria..staphylococcus aureus

HD-01179 ANDREW, WARREN, Sch. Med., Indiana Univ., Indianapolis, Ind.
aging; cell; connective tissue; mast cells; blood cells.. eosinophil leukocytes; blood cells..plasma cells; blood cells..lymphocytes; electron microscopy; phase microscopy

HD-01186 SCOTT, EARL B., Sch. Med., State Univ. South Dakota, Vermillion, S.D.
aging; kidney; thyroid gland; dietary deficiency; amino acid; pituitary gland; gonads; bone..tibia; growth

HD-01314 WALKER, BRUCE E., Univ. Texas Med. Br., Galveston, Tex.
cell differentiation; epithelium; vagina; estrogens; progesterone; ovariectomy; tritium

HD-01318 LUGINBUHL, WILLIAM H., Col. Med., Univ. Vermont, Burlington, Vt.
uterus..endometrium; hemorrhage; blood coagulation.. fibrinolysis; progesterone; hysterectomy; pregnancy.. abortion; amenorrhea

HD-01394 BHUSSRY, BALDEV R., Sch. Med., Dent., Georgetown Univ., Washington, D.C.
uterus..endometrium; blood vessels; microcirculation; pregnancy..postpartum; elastic tissue

HD-01414 ALEU, FERNANDO P., New York Univ. Med. Cr., New York, N.Y.
brain..cerebral cortex; pregnancy toxemias and hypertension..eclampsia; brain edema; convulsions; thrombosis

HD-01470 RODDICK, JOHN W., Jr., Univ. Kentucky Med. Cr., Lexington, Ky.
oxidoreductases..lactate dehydrogenase; enzymes.. isoenzymes; reproductive system, female; menstrual cycle; pregnancy; uterus..endometrium; uterus neoplasms; uterus hyperplasia

HD-01479 BECKER, R. FREDERICK, Duke Hosp., Durham, N.C.
pregnancy; hyaline membrane disease, pulmonary; infant animals..premature infant; hypoxia; oxygen tension

HD-01566 BAMFORD, SOPHIA B., New England Cr. Hosp., Boston, Mass.
genetics..sex chromosomes; genetics..karyograms; congenital abnormalities; reproductive system, female; amenorrhea; menstruation disorders; polycystic ovary; uterus neoplasms; antifertility factors; diagnostic tests; mutagens; cooperative study

HD-01877 SAACKE, RICHARD G., Col. Agr., Virginia Polytechnic Inst., Blacksburg, Va.
mammary glands; lactation; secretory mechanisms; bacteria; electron microscopy; animal husbandry

HE-00683 BUTT, EDWARD M., Sch. Med., Univ. Southern California, Los Angeles, Cal.
trace elements; brain disorders; blood..serum; alcoholism; liver cirrhosis; pulmonary arterial occlusions; heart diseases; congenital abnormalities; mental disorders; bone; pregnancy..placental transfer; pregnancy.. umbilical cord; infant human,..newborn; chorea.. Huntington's chorea

HE-00890 **LEHR, DAVID,** New York Med. Col., New York, N.Y.
electrolytes; hypercalcemia; adrenal glands; therapy; arteriosclerosis; heart..myocardium; myocardial necrosis (noninfractional); diet; hormones; kidney function; hyperparathyroidism; nephrectomy; toxins; pregnancy.. placenta; parathyroid glands; vasoactive agents; fetus; renoprival hypertension; injuries..wound healing; sympathomimetic agents

HE-00945 **SIMMS, HENRY S.,** Sch. Med., Columbia Univ., N.Y.C.
aging; diet; longevity; stress

HE-01088 **WILENS, SIGMUND L.,** New York Univ. Med. Cr., N.Y.C.
atherosclerosis; cholesterol; cortisone; diet; smoking; therapy

HE-01542 **MOON, HENRY D.,** Sch. Med., Univ. California, San Francisco, Cal.
arteriosclerosis; blood vessels; connective tissue; elastic tissue; mucopolysaccharides; primates..monkeys; proteases..elastase

HE-01570 **LeQUIRE, VIRGIL S.,** Sch. Med., Vanderbilt Univ., Nashville, Tenn.
fats; embolism; blood coagulation; lipoproteins; heparin; bacteria..endotoxins; lipids..serum lipids; cholesterol; enzymes; arteriosclerosis; lipases..lipoprotein lipase

HE-01584 **BENSON, ELLIS S.,** Sch. Med. Univ. Minnesota, Minneapolis, Minn.
heart..myocardium; hypoxia; heart failure..congestive heart failure; carbon dioxide tension; acid-base equilibrium; muscle contraction; muscle proteins; chemical structure

HE-01623 **KRAKOWER, CECIL A.,** Col. Med., Univ. Illinois, Chicago, Ill.
basement membrane; capillaries; immunology..antigens; kidney..glomerulus; kidney disorders

HE-01648 **BRINKHOUS, KENNETH M.,** Univ. North Carolina, Chapel Hill, N. C.
blood cells..thrombocytes; blood coagulation factor VIII; blood coagulation..fibrinogen; blood coagulation..thrombin; genetics; hemophilia

HE-01725 **LUPTON, CHARLES H., Jr.,** Univ. Alabama Med. Cr., Birmingham, Ala.
kidney disorders; hepatitis; kidney neoplasms; pituitary gland; electron microscopy; pyelonephritis; vitamin B12; histogenesis

HE-01794 **WATERS, LEVIN L.,** Sch. Med., Yale Univ., New Haven, Conn.
arteries..coronary arteries; atherosclerosis; connective tissue; lipids..serum lipids; lipogenic inhibitors; lipoproteins

HE-01803 **MURPHY, GEORGE E.,** Col. Med., Cornell Univ., N.Y.C.
bacteria..Streptococcus group A; blood vessels; genetics; glomerulonephritis; histogenesis; immunology..antigen-antibody reactions; immunology..complement; rheumatic fever

HE-01907 **LHOTKA, JOHN F., Jr.,** Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
polysaccharides; acid; iron; staining; mucoproteins; atherosclerosis; embryology

HE-01979 **RATCLIFFE, HERBERT L.,** Zoological Society, Philadelphia, Pa.
arteriosclerosis; myocardial infarct; socioenvironment

HE-02120 **JACOBSON, MARSHALL H.,** George Washington Univ. Hosp., Washington, D.C.
bacteriuria; immunofluorescence; immunology..antibodies; kidney; pyelonephritis

HE-02174 **WISSLER, ROBERT W.,** Sch. Med., Univ. Chicago, Chicago, Ill.
atherosclerosis; catecholamines; deoxycorticosterone; diet; immune sera; lipids..serum lipids; lipoproteins; nephrosis; sodium chloride

HE-02190 **ANGRIST, ALFRED,** Sch. Med., Yeshiva Univ., N.Y.C.
ACTH; blood vessels shunts..arteriovenous shunt; deoxycorticosterone; endocarditis; endocrine glands; ground substance; glycine; proline; radiolabeled sulfur; stress; tritium; valvular heart diseases

HE-02490 **HIBBS, RICHARD G.,** Sch. Med., Tulane Univ., New Orleans, La.
blood vessels; heart

HE-02538 **WALFORD, ROY L.,** Sch. Med., Univ. California, Los Angeles, Cal.
ACTH; amino acid; carbohydrates; elastic tissue; enzymes inhibitors..elastase inhibitors; estrogens; lathyrism; pregnancy; progesterone; radiolabeled carbon

HE-02549 **GEER, JACK C.,** Sch. Med., Louisiana State Univ., New Orleans, La.
electron microscopy; atherosclerosis; lipids; atheroma; muscle..smooth muscle; bone neoplasms

HE-02615 **SALMON, W.D.,** Auburn Univ., Auburn, Ala.
choline; methionine; dietary deficiency; lipids; cardiovascular diseases; thyroid activator; antithyroid compounds

HE-02639 **HALES, MILTON R.,** Sch. Med., Yale Univ., New Haven, Conn.
liver circulation; hepatoxins; liver ischemia and hypoxia; electrophysiology; blood cells..erythrocytes; liver cirrhosis

HE-02670 **ANTOPOL, WILLIAM,** Beth Israel Hosp., New York, N.Y.
sulfhydryls; hypertension (systemic); carcinoma; hydrogen acceptors; heart; kidney; inflammation; tetrazolium salts; vasoactive agents

HE-02792 **ALLISON, FRED, Jr.,** Univ. Mississippi Med. Cr., Jackson, Miss.
inflammation; heat; transparent chamber technique; heparin; blood cells..thrombocytes; polysaccharides; cell; surface properties; ion..cation; immunology.. complement

HE-02872 **FEIGIN, IRWIN,** New York Univ. Med. Cr., New York, N.Y.
cerebrovascular disorders; infarction; age; hypertension (systemic); brain edema; trauma; cerebroarterial occlusions and thrombosis; cerebroarterial occlusions extracranial; spinal cord; embolism

HE-02986 **SPARGO, BENJAMIN H.,** Sch. Med., Univ. Chicago, Chicago, Ill.
kidney disorders; kidney function; potassium; kidney.. renal medulla; cell components..cytoplasm; electron microscopy; cytology

HE-03165 **McGILL, HENRY C., Jr.,** Am. Heart Assn., Louisiana State Univ., Sch. Med., New Orleans, La.
atherosclerosis; coronary diseases; arteries..aorta; autopsy; disease classification; information exchange

HE-03174 **BENDITT, EARL P.,** Sch. Med., Univ. Washington, Seattle, Wash.
mast cells; histamine; serotonin; catecholamines; blood vessels; injuries; blood cells..eosinophil leukocytes; blood cells..thrombocytes; endothelium permeability; connective tissue; fibroblasts; collagen; scurvy; kidney.. glomerulus; kidney disorders; amyloidosis; proteins; liver damage; carbon tetrachloride; thioacetamide; phosphorus; toxicology; proteases

HE-03207 **HIGGINBOTHAM, A.C.,** West Virginia Univ. Med. Cr., Morgantown, W.Va.
atherosclerosis; transplantation; arteries; eye; diet; drugs; longitudinal study; phosphatases..pyrophosphatase; vascular disorders

HE-03215 **HASS, GEORGE M.,** Presby-St. Luke's Hosp., Chicago, Ill.
arteriosclerosis; diet; hypervitaminosis

HE-03229 **BRAUDE, ABRAHAM I.,** Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
pyelonephritis; bacteria; reproduction; urinary tract

HE-03444 **HAIMOVICI, HENRY,** Montefiore Hosp., N.Y.C.
atherosclerosis; arteries; transplantation

HE-03647 **MacDONALD, RICHARD A.,** Mallory Inst. Pathology, Boston, Mass.
blood flow; blood vessels; liver; liver cirrhosis; regeneration; tritium

HE-03690 **SPARGO, BENJAMIN H.,** Sch. Med., Univ. Chicago, Chicago, Ill.
training; electron microscopy

HE-03737 **SWEET, HERBERT C.,** Sch. Med., St. Louis Univ., St. Louis, Mo.
pulmonary emphysema; pneumoconiosis; lung..bronchi; lung..alveolus; pulmonary function; blood vessels; occupational hazards; lung volume; industry

HE-03776 **SIMPSON, CHARLES F.,** Univ. Florida, Gainesville, Fla.
aneurysms; turkeys; proline; endocrine glands; cardiovascular diseases

HE-03790 **ROBBINS, STANLEY L.,** Mallory Inst. Path., Boston, Mass.
blood vessels shunts; cell division; clergy; coronary diseases; ethnic groups; ethnic groups..race; heart.. myocardium; heart..myocardium revascularization; muscle.. myofibrils; myocardial ischemia and hypoxia; nutrition

HE-03794 **WOODS, JAMES W., Jr.,** Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
therapy; α-methyl DOPA; renal failure; hypertension (systemic); cardiorenal disorders; angiotensin; sodium; potassium; renal hypertension; catecholamines; anti-hypertensive agents; hemodialysis; therapy evaluation; blood coagulation..anticoagulants; lipids..serum lipids; myocardial infarct

HE-03912 **MATTENHEIMER, HERMANN,** Presby.-St. Luke's Hosp., Chicago, Ill.
ammonia; enzymes; glucose; kidney..renal tubules; kidney disorders; proteins

HE-03926 **MANN, GEORGE V.,** Sch. Med., Vanderbilt Univ., Nashville, Tenn.
aging; atherosclerosis; cysteine; dietary deficiency; primates; sterols; thiazolidinecarboxylic acid

HE-03930 **KISSANE, JOHN M.,** Sch. Med., Washington Univ., St. Louis, Mo.
5-dimethylamino-9-(3'amino-3'-deoxy-β-D-ribofuranosyl)-purine; enzymes; hypokalemia; hyponatremia; kidney.. juxtaglomerular apparatus; nephrosis; urine; water-electrolyte balance

HE-03944 **WARNER, NANCY E.,** Sch. Med., Univ. Chicago, Chicago, Ill.
blood circulation dynamics; glucose; insulin; islands of Langerhans; pancreas; vasoactive agents; viscera

HE-03973 **CHANDER, ARTHUR B.,** Med. Col. Georgia, Augusta, Ga.
blood coagulation..anticoagulants; diagnostic tests; thrombosis

HE-04051 **COGAN, DAVID G.,** Sch. Med., Harvard Univ., Boston, Mass.
retinal circulation; capillaries; aging; vitamin A; esters; eye circulatory disorders

HE-04052 **WILLIAMS, W. LANE,** Sch. Med., Univ. Mississippi, Jackson, Miss.
cardiovascular system; cortisone; androgens; injury; dietary deficiency; choline; fats; estrogens; progestins

(contd)

HE-00890 **LEHR, DAVID,** New York Med. Col., New York, N.Y.
electrolytes; hypercalcemia; adrenal glands; therapy; arteriosclerosis; heart..myocardium; myocardial necrosis (noninfarctional); diet; hormones; kidney function; hyperparathyroidism; nephrectomy; toxins; pregnancy.. placenta; parathyroid glands; vasoactive agents; fetus; renoprival hypertension; injuries..wound healing; sympathomimetic agents

HE-00945 **SIMMS, HENRY S.,** Sch. Med., Columbia Univ., N.Y.C.
aging; diet; longevity; stress

HE-01088 **WILENS, SIGMUND L.,** New York Univ. Med. Cr., N.Y.C.
atherosclerosis; cholesterol; cortisone; diet; smoking; therapy

HE-01542 **MOON, HENRY D.,** Sch. Med., Univ. California, San Francisco, Cal.
arteriosclerosis; blood vessels; connective tissue; elastic tissue; mucopolysaccharides; primates..monkeys; proteases..elastase

HE-01570 **LeQUIRE, VIRGIL S.,** Sch. Med., Vanderbilt Univ., Nashville, Tenn.
fats; embolism; blood coagulation; lipoproteins; heparin; bacteria..endotoxins; lipids..serum lipids; cholesterol; enzymes; arteriosclerosis; lipases..lipoprotein lipase

HE-01584 **BENSON, ELLIS S.,** Sch. Med. Univ. Minnesota, Minneapolis, Minn.
heart..myocardium; hypoxia; heart failure..congestive heart failure; carbon dioxide tension; acid-base equilibrium; muscle contraction; muscle proteins; chemical structure

HE-01623 **KRAKOWER, CECIL A.,** Col. Med., Univ. Illinois, Chicago, Ill.
basement membrane; capillaries; immunology..antigens; kidney..glomerulus; kidney disorders

HE-01648 **BRINKHOUS, KENNETH M.,** Univ. North Carolina, Chapel Hill, N. C.
blood cells..thrombocytes; blood coagulation..factor VIII; blood coagulation..fibrinogen; blood coagulation..thrombin; genetics; hemophilia

HE-01725 **LUPTON, CHARLES H., Jr.,** Univ. Alabama Med. Cr., Birmingham, Ala.
kidney disorders; hepatitis; kidney neoplasms; pituitary gland; electron microscopy; pyelonephritis; vitamin B12; histogenesis

HE-01794 **WATERS, LEVIN L.,** Sch. Med., Yale Univ., New Haven, Conn.
arteries..coronary arteries; atherosclerosis; connective tissue; lipids..serum lipids; lipogenic inhibitors; lipoproteins

HE-01803 **MURPHY, GEORGE E.,** Col. Med., Cornell Univ., N.Y.C.
bacteria..Streptococcus group A; blood vessels; genetics; glomerulonephritis; histogenesis; immunology..antigen-antibody reactions; immunology..complement; rheumatic fever

HE-01907 **LHOTKA, JOHN F., Jr.,** Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
polysaccharides; acid; iron; staining; mucoproteins; atherosclerosis; embryology

HE-01979 **RATCLIFFE, HERBERT L.,** Zoological Society, Philadelphia, Pa.
arteriosclerosis; myocardial infarct; socioenvironment

HE-02120 **JACOBSON, MARSHALL H.,** George Washington Univ. Hosp., Washington, D.C.
bacteriuria; immunofluorescence; immunology..antibodies; kidney; pyelonephritis

HE-02174 **WISSLER, ROBERT W.,** Sch. Med., Univ. Chicago, Chicago, Ill.
atherosclerosis; catecholamines; deoxycorticosterone; diet; immune sera; lipids..serum lipids; lipoproteins; nephrosis; sodium chloride

HE-02190 **ANGRIST, ALFRED,** Sch. Med., Yeshiva Univ., N.Y.C.
ACTH; blood vessels shunts..arteriovenous shunt; deoxycorticosterone; endocarditis; endocrine glands; ground substance; glycine; proline; radiolabeled sulfur; stress; tritium; valvular heart diseases

HE-02490 **HIBBS, RICHARD G.,** Sch. Med., Tulane Univ., New Orleans, La.
blood vessels; heart

HE-02538 **WALFORD, ROY L.,** Sch. Med., Univ. California, Los Angeles, Cal.
ACTH; amino acid; carbohydrates; elastic tissue; enzymes inhibitors..elastase inhibitors; estrogens; lathyrism; pregnancy; progesterone; radiolabeled carbon

HE-02549 **GEER, JACK C.,** Sch. Med., Louisiana State Univ., New Orleans, La.
electron microscopy; atherosclerosis; lipids; atheroma; muscle..smooth muscle; bone neoplasms

HE-02615 **SALMON, W.D.,** Auburn Univ., Auburn, Ala.
choline; methionine; dietary deficiency; lipids; cardiovascular diseases; thyroid activator; antithyroid compounds

HE-02639 **HALES, MILTON R.,** Sch. Med., Yale Univ., New Haven, Conn.
liver circulation; hepatoxins; liver ischemia and hypoxia; electrophysiology; blood cells..erythrocytes; liver cirrhosis

HE-02670 **ANTOPOL, WILLIAM,** Beth Israel Hosp., New York, N.Y.
sulfhydryls; hypertension (systemic); carcinoma; hydrogen acceptors; heart; kidney; inflammation; tetrazolium salts; vasoactive agents

HE-02792 **ALLISON, FRED, Jr.,** Univ. Mississippi Med. Cr., Jackson, Miss.
inflammation; heat; transparent chamber technique; heparin; blood cells..thrombocytes; polysaccharides; cell; surface properties; ion..cation; immunology.. complement

HE-02872 **FEIGIN, IRWIN,** New York Univ. Med. Cr., New York, N.Y.
cerebrovascular disorders; infarction; age; hypertension (systemic); brain edema; trauma; cerebroarterial occlusions and thrombosis; cerebroarterial occlusions extracranial; spinal cord; embolism

HE-02986 **SPARGO, BENJAMIN H.,** Sch. Med., Univ. Chicago, Chicago, Ill.
kidney disorders; kidney function; potassium; kidney.. renal medulla; cell components..cytoplasm; electron microscopy; cytology

HE-03165 **McGILL, HENRY C., Jr.,** Am. Heart Assn., Louisiana State Univ., Sch. Med., New Orleans, La.
atherosclerosis; coronary diseases; arteries..aorta; autopsy; disease classification; information exchange

HE-03174 **BENDITT, EARL P.,** Sch. Med., Univ. Washington, Seattle, Wash.
mast cells; histamine; serotonin; catecholamines; blood vessels; injuries; blood cells..eosinophil leukocytes; blood cells..thrombocytes; endothelium permeability; connective tissue; fibroblasts; collagen; scurvy; kidney.. glomerulus; kidney disorders; amyloidosis; proteins; liver damage; carbon tetrachloride; thioacetamide; phosphorus; toxicology; proteases

HE-03207 **HIGGINBOTHAM, A.C.,** West Virginia Univ. Med. Cr., Morgantown, W.Va.
atherosclerosis; transplantation; arteries; eye; diet; drugs; longitudinal study; phosphatases..pyrophosphatase; vascular disorders

HE-03215 **HASS, GEORGE M.,** Presby-St. Luke's Hosp., Chicago, Ill.
arteriosclerosis; diet; hypervitaminosis

HE-03220 **BRAUDE, ABRAHAM I.,** Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
pyelonephritis; bacteria; reproduction; urinary tract

HE-03444 **HAIMOVICI, HENRY,** Montefiore Hosp., N.Y.C.
atherosclerosis; arteries; transplantation

HE-03647 **MacDONALD, RICHARD A.,** Mallory Inst. Pathology, Boston, Mass.
blood flow; blood vessels; liver; liver cirrhosis; regeneration; tritium

HE-03690 **SPARGO, BENJAMIN H.,** Sch. Med., Univ. Chicago, Chicago, Ill.
training; electron microscopy

HE-03737 **SWEET, HERBERT C.,** Sch. Med., St. Louis Univ., St. Louis, Mo.
pulmonary emphysema; pneumoconiosis; lung..bronchi; lung..alveolus; pulmonary function; blood vessels; occupational hazards; lung volume; industry

HE-03776 **SIMPSON, CHARLES F.,** Univ. Florida, Gainesville, Fla.
aneurysms; turkeys; proline; endocrine glands; cardiovascular diseases

HE-03790 **ROBBINS, STANLEY L.,** Mallory Inst. Path., Boston, Mass.
blood vessels shunts; cell division; clergy; coronary diseases; ethnic groups; ethnic groups..race; heart.. myocardium; heart..myocardium revascularization; muscle.. myofibrils; myocardial ischemia and hypoxia; nutrition

HE-03794 **WOODS, JAMES W., Jr.,** Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
therapy; α-methyl DOPA; renal failure; hypertension (systemic); cardiorenal disorders; angiotensin; sodium; potassium; renal hypertension; catecholamines; anti-hypertensive agents; hemodialysis; therapy evaluation; blood coagulation..anticoagulants; lipids..serum lipids; myocardial infarct

HE-03912 **MATTENHEIMER, HERMANN,** Presby.-St. Luke's Hosp., Chicago, Ill.
ammonia; enzymes; glucose; kidney..renal tubules; kidney disorders; protons

HE-03926 **MANN, GEORGE V.,** Sch. Med., Vanderbilt Univ., Nashville, Tenn.
aging; atherosclerosis; cysteine; dietary deficiency; primates; sterols; thiazolidinecarboxylic acid

HE-03930 **KISSANE, JOHN M.,** Sch. Med., Washington Univ., St. Louis, Mo.
5-dimethylamino-9-(3'amino-3'-deoxy-β-D-ribofuranosyl)-purine; enzymes; hypokalemia; hyponatremia; kidney.. juxtaglomerular apparatus; nephrosis; urine; water-electrolyte balance

HE-03944 **WARNER, NANCY E.,** Sch. Med., Univ. Chicago, Chicago, Ill.
blood circulation dynamics; glucose; insulin; islands of Langerhans; pancreas; vasoactive agents; viscera

HE-03973 **CHANDER, ARTHUR B.,** Med. Col. Georgia, Augusta, Ga.
blood coagulation..anticoagulants; diagnostic tests; thrombosis

HE-04051 **COGAN, DAVID G.,** Sch. Med., Harvard Univ., Boston, Mass.
retinal circulation; capillaries; aging; vitamin A; esters; eye circulatory disorders

HE-04052 **WILLIAMS, W. LANE,** Sch. Med., Univ. Mississippi, Jackson, Miss.
cardiovascular system; cortisone; androgens; injury; dietary deficiency; choline; fats; estrogens; progestins

(contd)

PATHOLOGY (CONTD)

HE-04098 ANDERSON, AUGUSTUS E., Jr., Baptist Mem. Hosp., Jacksonville, Fla.
aging; lung; pulmonary emphysema; pulmonary fibrosis; statistics

HE-04152 TEJADA, CARLOS, Inst. Nutrition Central America, Panama, Guatemala City, Guatemala, C.A.
atherosclerosis; age; sex difference; geographical sites.. Africa; geographical sites..Latin America; ethnic groups ..race; epidemiology; geographical sites..Europe; geographical sites..United States

HE-04176 KNISELY, MELVIN H., Med. Col. South Carolina, Charleston, S.C.
blood circulation dynamics; hemagglutination; injury, hume injury, crush syndrome; shock

HE-04177 WAIBEL, PAUL E., Col. Agr., Vet. Med., Univ. Minnesota, Minneapolis, Minn.
B-aminopropionitrile; amino acid; aneurysms; antihypertensive agent; tranquilizers; blood pressure; nutrition; hormones; arteries..aorta; proteases..elastase; blood.. serum

HE-04216 ELIAS, HANS, Chicago Med. Sch., Chicago, Ill.
blood flow; blood volume; diuresis; kidney..glomerulus; oliguria

HE-04298 ZWEIFACH, BENJAMIN W., New York Univ. Med. Cr., N.Y.C.
blood vessels; endothelium; fetus; liver; membrane permeability; muscle..smooth muscle; radiation effects.. whole body radiation; spleen

HE-04299 KUIDA, HIROSHI, Univ. Utah, Salt Lake City, Utah
bovine high mountain disease; altitude; pulmonary hypertension; heart failure; blood circulation dynamics; oxygen tension

HE-04300 JONES, DAVID B., Upstate Med. Cr., Res. Fdn. State Univ. New York, Syracuse, N.Y.
kidney disorders; kidney..glomerulus; electron microscopy; photography

HE-04352 PRICHARD, ROBERT W., Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.
atherosclerosis; carcinogenesis; 1,2,5,6--dibenzanthracene; age; estrogens; butterfat; exercise; thiamine; myocardial infarct

HE-04410 TEODORU, CONSTANTIN V., Jewish Chronic Disease Hosp., Brooklyn, New York
arthritis; blood..serum; cortisone; diet; glomerulonephritis; hormones; immunology..autoimmunology; nephrotoxins; sodium chloride; stress

HE-04425 SMITH, DEWITT H., New Jersey Neuro-Psy. Inst. Princeton, N.J.
hypertension, systemic; cholesterol; cerebrovascular disorders; injury; genetics; lipids; granuloma; bacteria; endotoxins; ballistocardiography; instrumentation--methodology

HE-04513 BOYLE, ALBERT J., Wayne State Univ., Detroit, Mich.
atherosclerosis; mucopolysaccharides; radiolabeled phosphorus; radiolabeled sulfur

HE-04579 BRUNSON, JOEL G., Univ. Mississippi Med. Cr., Jackson, Miss.
motion sickness; endotoxins; cortisone; blood flow; shock; cardiovascular surgery; gallbladder

HE-04704 SALLMAN, BENNETT, Sch. Med., Univ. Miami, Coral Gables, Fla.
bacteria..Streptococcus group A; enzymes; heart; heart diseases; streptococcal infections

HE-04714 GALAMBOS, JOHN T., Sch. Med., Emory Univ., Atlanta, Ga.
mucopolysaccharides; cholesterol; arteries..aorta; diet; arteriosclerosis; radiolabeled carbon

HE-04722 CLARKSON, THOMAS B., Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.
arteries; atherosclerosis; cholesterol; endocrine glands; genetics

HE-04759 RATCLIFFE, HERBERT L., Philadelphia Zoological Soc., Philadelphia, Pa.
endocrine glands; glomerulonephritis; reproduction; research programs; socioenvironment; training; water-electrolyte balance

HE-04856 BROWN, ARNOLD L., Mayo Assn., Rochester, Minn.
heart enlargement; cell components..mitochondria; muscle ..myofibrils; cytology; proteins; myosin

HE-05016 LAUTSCH, ELIZABETH V., Temple Univ. Med. Cr., Philadelphia, Pa.
blood vessels; endothelium; cytology; atherosclerosis; histology

HE-05018 WILLERS, ERNEST H., Dept. Agriculture, Honolulu, Hawaii
arteriosclerosis; coronary diseases; soil; plants; age; diet; cattle; epizootiology; blood vessels; lung

He-05020 ASTRUP, TAGE, J.F. Mitchell Fdn., Washington, D.C.
arteriosclerosis; hemostasis; blood coagulation..fibrin; thrombosis; blood coagulation, fibrinolysis; diet

HE-05069 RACE, GEORGE J., Baylor Univ. Med. Cr., Dallas, Tex.
electrolytes; hormones; adrenal glands

HE-05173 GARDNER, DUGALD L., Sch. Med., Univ. Edinburgh, Edinburgh, Scotland
hypertension (systemic); arteries..arterioles; organ culture; growth; enzymes

HE-05367 DI LUZIO, NICHOLAS R., Sch. Med. Sci., Univ. Tennessee Med. Units, Memphis, Tenn.
reticuloendothelial system; liver; Kupffer cells; cholesterol; lipoproteins; chylomicrons; diet

HE-05445 WAINWRIGHT, JOHN, Univ. Natal, Durban, Natal, South Africa
atherosclerosis; autopsy; ethnic groups..Africans; ethnic groups..East Indians; ethnic groups..whites; ischemia

HE-05609 CARNES, WILLIAM H., Col. Med., Univ. Utah, Salt Lake City, Utah
arteries..aorta; elastin; hexosamines; copper; dietary deficiency; polysaccharides; proteins; proteases.. elastase; proteases..collagenase; collagen; amino acid; oxidoreductases..amine oxidases

HE-05654 GLAGOV, SEYMOUR, Sch. Med., Univ. Chicago, Chicago, Ill.
arteriosclerosis; blood circulation dynamics; peripheral vascular resistance

HE-05660 WOOD, COLIN, Sch. Med., Univ. Maryland, Baltimore, Md.
renal hypertension; blood pressure; kidney..renal tubular transport; sodium; kidney..glomerular filtration

HE-05662 GOOD, ROBERT A., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
bacteria; children; kidney disorders; kidney function; immunology

HE-05673 HUGGINS, CHARLES E., Massachusetts Gen. Hosp., Boston, Mass.
blood preservation; dimethyl sulfoxide; freezing; heart arrest; hypothermia; tissue preservation

HE-05694 EDWARDS, JESSE E., Charles T. Miller Hosp., St. Paul, Minn.
cardiovascular diseases; congenital heart disease.. septal defect; heart..ventricles; pulmonary hypertension; blood vessels transposition; heart block

HE-05822 WAGNER, BERNARD M., New York Med. Col., N.Y.C.
heart; connective tissue; Aschoff bodies; histiocytes; cell components, chromatin; molecules ..macromolecules; bacteria..Streptococcus; cell components, cell membrane; rheumatic heart diseases

HE-05906 SPIRO, DAVID, Col. Phys., Surg., Columbia Univ., New York, N.Y.
genetics..chromosomes; muscular diseases; hypersensitivity..delayed hypersensitivity; kidney neoplasms; calcification; ovary; menstrual cycle; pituitary neoplasms; viruses ..oncogenic viruses; pregnancy toxemias and hypertension; electron microscopy; muscle contraction; reticuloendothelial system; adrenal glands

HE-05907 WILLIAMS, W. LANE, Sch. Med., Univ. Mississippi, Jackson, Miss.
cardiovascular diseases; arteries..vertebral artery; arteries..carotid arteries; autopsy

HE-05950 SOBEL, HAROLD J., Beth Israel Hosp., Passaic, N.J.
enzymes; liver damage; kidney disorders; phosphatases.. adenosine triphosphatase; kidney..renal tubules; dehydrogenases..succinate dehydrogenase; cell components.. mitochondria

HE-06033 JOHNSON, SHIRLEY A., Wood Veterans Admin. Hosp., Wood, Wis.
blood coagulation..thrombocytes; blood coagulation; thrombocytopenia; uremia; macroglobulinemia; polycythemia vera; blood coagulation..prothrombin; electron microscopy; hemostasis; blood cells.. erythrocytes; blood coagulation..fibrin; adenosine triphosphate

HE-06056 ZUGIBE, FREDERICK T., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
arteries, aorta; atherosclerosis; aging; mucopolysaccharides; N-acetylneuraminic acid; lipids; elastic tissue; collagen

HE-06057 NEUFELD, HENRY N., Govt. Hosp., Tel-Hashomer, Israel
arteries..coronary arteries; fetus; infants, human; children; elastic tissue; age; arteriosclerosis; ethnic groups.. Jewish; geographical sites..Israel; geographical sites.. Europe

HE-06065 ANDERSON, AGUSTUS E., Jr., Baptist Memorial Hosp., Jacksonville, Fla.
inflammation; lung..bronchi; pulmonary emphysema

HE-06066 LANSING, ALBERT I., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
aging; arteries; atherogenesis; cytology

HE-06067 MITCHELL, ROGER S., Sch. Med., Univ. Colorado, Denver, Colo.
lung; pulmonary function; pulmonary emphysema; smoking; bronchitis

HE-06089 SCHENK, ERIC A., Sch. Med., Univ. Rochester, Rochester, N.Y.
vasoactive agents, vasopressors; dosage; autopsy

HE-06211 OLSON, ROBERT E., Grad. Sch., Univ. Pittsburgh, Pittsburgh, Pa.
electron microscopy; heart ventricles; heart failure.. congestive heart failure

HE-06214 PATT, DONALD I., Grad. Sch., Boston Univ., Boston, Mass.
electron microscopy; endothelium; thromboembolism; nervous system; arteries..arterioles; thymus

HE-06276 GILLILAN, LOIS A., Col. Med., Univ. Kentucky, Lexington, Ky.
cardiovascular system; cerebrovascular system; nervous system..central nervous system; primates..Macaca mulatta

HE-06300 GRESHAM, GEOFFREY A., Sch. Med., Cambridge Univ., Cambridge, England
atherosclerosis; diet; fats; glycerides; hormones; thrombosis

HE-06408 MAURUKAS, JONAS, Elyria Hosp., Elyria, Ohio
arteries..aorta; atherosclerosis; cephalins; cholesterol; diet; lipids

HE-06432 NORMAN, TOM D., Univ. Arkansas Med. Cr., Little Rock, Ark.
deoxyribonucleic acid; heart enlargement; proteins; growth; heart..myocardium; cell division; reaction sites; cell types; tritium; radiolabeled carbon

HE-06483 ADAMS, COLIN W.M., Guy's Hosp. Med. Sch., London, England
arteries; elastic tissue; atherogenesis; lipids; atherosclerosis; cholesterol; diet; enzymes

HE-06484 SOLOMON, ROBERT D., City Hope Med. Cr., Duarte, Cal.
atherosclerosis; transparent chamber technique; angiography; cholesterol inhibitors; x--ray microscopy

HE-06486 MOOLTEN, SYLVAN E., Middlesex Gen. Hosp., New Brunswick, N.J.
lymphatic system; lung disease; blood vessels; pulmonary fibrosis; pulmonary emphysema

HE-06580 SIMPSON, CHARLES F., Univ. Florida, Gainesville, Fla.
cardiovascular system; electron microscopy; veterinary medicine

HE-06586 McMILLAN, GARDNER C., Sch. Med., McGill Univ., Montreal, Canada
fatty acids; cholesterol; isomers..cis--transisomerization; atherosclerosis

HE-06587 SOLOFF, LOUIS A., Sch. Med., Temple Univ., Philadelphia, Pa.
blood coagulation; blood vessels; fatty acids

HE-06660 BURDETTE, WALTER J., Col. Med., Univ. Utah, Salt Lake City, Utah
adrenal cortex hormones; heart..myocardium; heart arrest; liver cells; perfusion

HE-06675 TOTTEN, ROBERT S., Presbyterian Hosp., Pittsburgh, Pa.
lung disease; pulmonary heart disease; congenital abnormalities; pulmonary function; pulmonary diffusion; basement membrane; endothelium; cytology; cortisone; lung..alveolus; congenital heart disease

HE-06708 SHIMAMOTO, TAKIO, Sch. Med., Tokyo Univ., Tokyo, Japan
enzymes inhibitors..monoamine oxidase inhibitors; thrombosis; nialamide; therapy

HE-06713 EISENSTEIN, REUBEN, Col. Med., Presby.-St. Luke's Hosp., Chicago, Ill.
aging; arteries; calcification; elastic tissue; hypervitaminosis; toxicology; vitamin D

HE-06716 GLICK, DAVID, Sch. Med., Stanford Med. Cr., Palo Alto, Cal.
cardiovascular system; adrenal glands; mast cells

HE-06826 KLIONSKY, BERNARD, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
myocardial ischemia and hypoxia; infants, animals; fetus; mortality; glycogen; pregnancy, amniotic fluid

HE-06858 STRAUS, REUBEN, St. Joseph Hosp., Burbank, Cal.
atherosclerosis; coronary diseases; lipids; age

HE-06860 McCREIGHT, CHARLES E., Bowman Gray Sch. Med., Winston-Salem, N.C.
kidney..renal tubules; hydronephrosis; hormones; nephrectomy; parabiosis; kidney hyperplasia; deoxyribonucleic acid; aging; body fluids; diet

HE-06861 HAYDON, GLEN B., Palo Alto Med. Res. Fdn., Palo Alto, Cal.
inflammation; blood vessels

HE-06894 WISSLER, ROBERT W., Sch. Med., Univ. Chicago, Chicago, Ill.
arteries..aorta; arteries..coronary arteries; atheroma; atherosclerosis; diet; primates, monkeys

HE-06918 NIDEN, ALBERT H., Sch. Med., Univ. Chicago, Chicago, Ill.
oxygen tension; pulmonary edema; respiration

HE-06943 BRUNSON, JOEL G., Univ. Mississippi Med. Cr., Jackson, Miss.
blood vessels; membrane permeability; stomach; stomach; radiation therapy; nephritis; ferritin; vascular disorders; immunology..antibodies; skin diseases; hypersensitivity; necrosis; arteries..abdominal arteries; blood brain barrier; meninges..choroid plexus; pregnancy..placental transfer; ion exchange

HE-06964 O'NEAL, ROBERT M., Col. Med., Baylor Univ., Houston, Tex.
arterial occlusions; diet; fats; lipids..serum lipids; myocardial infarct

HE-06975 SKELTON, FLOYD R., Sch. Med., State Univ. New York, Buffalo, N.Y.
ACTH; adrenal glands; corticosterone; cytology; hypertension (systemic); kidney..juxtaglomerular apparatus; kidney function; methylandrostenediol; somatotrophin; thyrotropin; vasoactive agents..vasopressors

HE-07000 ARIAS-STELLA, JAVIER, Peruvian Univ. Med., Biol. Sciences, Lima, Peru
altitude; heart; infant human; pulmonary hypertension; elasticity; arteries..pulmonary artery; heart enlargement.. ventricular hypertrophy; pulmonary edema; hyaline membrane disease, pulmonary

HE-07040 RASMUSSEN, PETER, Sch. Med., Univ. Maryland, Baltimore, Md.
ischemia; electron microscopy; liver ischemia and hypoxia; renal ischemia and hypoxia; myocardial ischemia and hypoxia; hepatotoxins; nephrotoxins; pancreas; fats

HE-07146 ROBERTS, JAMES C., JR., Little Co. Mary Hosp., Torrance, Cal.
cardiovascular system; marine biology; lipids; lipids..serum lipids; sex difference; arteriosclerosis; autopsy

HE-07147 MARTIN, CAROLYN, Med. Col. Virginia, Richmond, Va.
immunofluorescence; blood coagulation..prothrombin; arteriosclerosis

HE-07165 LINK, ROGER P., Col. Vet. Med., Univ. Illinois, Urbana, Ill.
exercise; atherosclerosis; blood coagulation; lipids.. plasma lipids; adipose tissue; arteries..coronary arteries; cholesterol; liver; radiolabeled potassium

HE-07190 CREVASSE, LAMAR, Col. Med., Univ. Florida, Gainesville, Fla.
heart..atrium; heart..ventricles; oxygen consumption; glycosides; radiolabeled; enzymes substrate; glycolysis

HE-07206 KOBERNICK, SIDNEY D., Sinai Hosp., Detroit, Mich.
atherosclerosis; arteries; enzymes; oxidoreductases.. succinate dehydrogenase; esterases; oxidoreductases.. DPNH diaphorase; TPNH diaphorase; choline esterases; phosphomonoesterases..alkaline phosphatase; phosphomonoesterases..glucose-6-phosphatases; oxidoreductases.. cytochrome oxidases; exercise; cholesterol; diet; proteases..leucine aminopeptidase; phosphorylases; uridine diphosphate glucose

HE-07244 FALOR, WILLIAM H., Akron City Hosp., Akron, Ohio
thoracic duct; lymphatic system; lymph; lung; neoplastic cells; bronchogenic carcinoma; cytology; proteins; lipoproteins; glycoproteins

HE-07245 SZANTO, PAUL B., Hektoen Inst., Chicago, Ill.
liver; pancreas; heart..myocardium; nervous system..central nervous system; alcoholism; arteriosclerosis

HE-07318 WILLIAMS, W. LANE, Univ. Mississippi Med. Cr., Jackson, Miss.
age; choline; dietary deficiency; fatty liver; genetics; liver cirrhosis

HE-07327 GORE, IRA, Massachusetts Mem. Hosp., Boston, Mass.
arteries; ground substance; atherosclerosis

HE-07403 LEVY, MATTHEW N., St. Vincent Charity Hosp., Cleveland, Ohio
blood; hemorrhagic shock; hormones; phagocytes; reticuloendothelial system; veins..portal veins

HE-07442 FENNELL, ROBERT H., JR., Presby-Univ. Hosp., Pittsburgh, Pa.
myocarditis; trypanosomiasis; heart diseases; immunology..autoantibodies; immunofluorescence; heart..myocardium; cortisone; therapy

HE-07484 BLOUNT, RAYMOND F., Sch. Med., Univ. Texas, Galveston, Tex.
aging; cytology; dehydration (body fluids); hormones; kidney..renal papilla; kidney..renal tubular transport; sodium chloride

HE-07655 MURRAY, MARVIN, Louisville Gen. Hosp., Louisville, Ky.
atherosclerosis; proteases; arteries..aorta; diet; trauma; blood coagulation..vasculokinase

HE-07826 TEDESCHI, CESARE G., Framingham Union Hosp., Framingham, Mass.
fats; urine; blood..serum; lipases; embolism; injury.. surgical wounds; trauma; adipose tissue; lipids..serum lipids

HE-07833 LEE, ROBERT E., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
binding; blood cells..erythrocytes; blood groups; ferritin labeled antibody technique; gastrointestinal system; salivary glands

HE-07835 HEPTINSTALL, ROBERT H., Johns Hopkins Hosp., Baltimore, Md.
pyelonephritis; renal hypertension; bacteria..Escherichia coli; kidney..renal tubules; bacterial diseases

HE-07844 DAESCHNER, C.W., Jr., Univ. Texas Med. Cr., Galveston, Texas
blood cells..erythrocytes; children; chronic disease; edema, generalized; epidemiology; glomerulonephritis; heart function; immunology; kidney function; longitudinal study; renal hypertension

HE-07900 BOYER, CHARLES C., Indiana Univ. Med. Cr., Indianapolis, Ind.
blood vessels; capillary beds; blood flow

HE-07913 McGILL, HENRY C., Jr., Sch. Med., Louisiana State Univ., New Orleans, La.
atherosclerosis; environment; ethnic groups..race; geographical sites; survey

HE-07961 NOWINSKI, WIKTOR W., Univ. Texas Med. Br., Galveston, Tex.
renal hypertrophy; aminotransferases..aspartate transaminase; oxidases..D--amino acid oxidase; oxidases.. L--amino acid oxidase; nephrectomy; Krebs cycle

HE-08003 TOBIN, CHARLES E., Univ. Rochester Med. Cr., Rochester, N.Y.
atheroma; embolism; pulmonary arterial occlusions; age; lung; longitudinal study

HE-08070 COYE, ROBERT D., Sch. Med., Univ. Wisconsin, Madison, Wis.
mercury poisoning; renal failure; kidney function; kidney circulation

HE-08072 PRIEST, ROBERT E., Univ. Colorado Med. Cr., Denver, Colo.
elastin; amino acid; tritium

(contd)

PATHOLOGY (CONTD)

HE-08073 STRONG, PASCHAL N., Jr., Grad. Sch., Texas Technological Col., Lubbock, Tex.
atherosclerosis; cholesterol; diet; fats; genetic strains; hematology; stress

HE-08159 GREEN, CLOID D., Univ. Virginia Hosp., Charlottesville, Va.
anesthetics; cell division; bone marrow; lymphatic system; myocarditis; nitrous oxide; oxygen tension; oxygen consumption; glycolysis; nucleic acids; thymus

HE-08192 JANOFF, AARON, Sch. Med., New York Univ., N.Y.C.
carbohydrases..beta-glucuronidase; cell components lysosomes; cortisone; enzymes; injury; liver; membrane permeability; phosphomonoesterases..acid phosphatases; proteases..cathepsins; shock

HE-08248 VIDONE, ROMEO A., Sch. Med., Yale Univ., New Haven, Conn.
atherosclerosis; blood flow; blood pressure; cardiovascular surgery; heart diseases; pulmonary arterial occlusions; pulmonary hypertension; thromboembolism

HE-08251 COTRAN, RAMZI S., Harvard Med. Sch., Boston, Mass.
blood vessels; endothelium permeability; inflammation; injury; lymphatic system; vasospasms

HE-08253 ROBERTSON, ABEL L., Jr., Cleveland Clinic, Cleveland, Ohio
arteries; atherosclerosis; cell components..cell membrane; lipids..serum lipids; mucopolysaccharides; oxidases; radiolabeled; surface active agents

HE-08274 SPENDLOVE, GEORGE, State Dept. Health, Olympia, Wash.
air pollution; arteries; atherosclerosis; blood cells..erythrocytes; carbon monoxide; carboxyhemoglobin; cholesterol; endothelium

HE-08291 KRAUSE, REGINALD F., Sch. Med., West Virginia Univ., Morgantown, W. Va.
lipoproteins..serum lipoproteins; phospholipids; atheroma; hypercholesteremia; cholesterol; arteries..aorta; arteries.. coronary arteries; age; enzymes; ACTH; 2--methyl--thiouracil; liver; vitamin A

HE-08291 KRAUSE, R.F., Sch. Med., West Virginia Univ., Morgantown, W.Va.
ACTH; age; arteries..aorta; arteries..coronary arteries; atheroma; cholesterol; enzymes; hypercholesteremia; lipoproteins..serum lipoproteins; liver; 2-methylthiouracil; phospholipids; vitamin A

HE-08293 MARCHESI, VINCENT T., Sch. Med., Washington Univ., St. Louis, Mo.
blood cells..leukocytes; capillaries; cell components.. lysosomes; endothelium permeability; inflammation; phagocytosis; phosphatases..adenosine triphosphatase; pinocytosis

HE-08338 PFEIFFER, E.W., Montana State Univ., Missoula, Mont.
kidney circulation; kidney function; kidney..renal medulla; phylogeny

HE-08407 PEREZ-NUNEZ, TERESA, Univ. Peruana de Ciencias Medicas, Lima, Peru
environment; altitude; electron microscopy; geographical sites..Peru; cell components.. mitochondria; kidney..glomerulus; lung..alveolus; cardiovascular system; cardiovascular diseases; lung diseases; kidney disorders; hypoxia; pulmonary hypertension; rheumatic heart disease; congenital heart disease; respiration; pulmonary edema; pulmonary hidatidosis; ductus arteriosus, patent; glomerulonephritis; lupus; nephritis; children

HE-08429 O'BRIEN, JOHN S., Sch. Med., Univ. Southern California, Los Angeles, Cal.
arteritis; calcification; cardiovascular diseases; lipids; phospholipids; polar molecules

HE-08441 MERKLIN, ROBERT J., Jefferson Med. Col., Philadelphia, Pa.
adrenal cortex hormones; adrenal glands; blood supply; cholesterol; injury; lipids; mucin; nerves..denervation; nervous system..splanchnic nerves; ovulation; pregnancy; primates..gibbons

HE-08446 CARAVACA TRUMILLI, JOSEFINA, Scripps Clinic and Res. Fdn., La Jolla, Cal.
aldosterone; angiotensin II; blood pressure; dehydrogenases.. glucose-6-phosphate dehydrogenase; dehydrogenases.. phosphogluconate dehydrogenase; deoxycorticosterone; enzymes; globulins..serum globulins; homeostasis; (systemic); kidney; sodium; water-electrolyte balance

HE-08471 WISSLER, ROBERT W., Sch. Med., Univ. Chicago, Chicago, Ill.
capillary beds; congenital heart disease; coronary diseases; instrumentation-methodology; pulmonary hypertension; renal hypertension; vascular disorders

HE-08491 FARBER, SEYMOUR M., Sch. Med., Univ. California, Berkeley, Cal.
air pollution; occupational hazards; lung..bronchi; sputum; exfoliative cytology

HE-08513 WILHELM, D.L., Faculty Med., Univ. New South Wales, Sydney, Australia
inflammation; leukocytosis; endothelium permeability; blood vessels vasomotion; enzymes; toxins; anaphylaxis; blood proteins..serum proteins; chemical structure

HE-08513 WILHELM, D.L., Faculty Med., Univ. New South Wales, Sydney, Australia
inflammation; leukocytosis; endothelium permeability; blood vessels vasomotion; enzymes; toxins; anaphylaxis; blood proteins..serum proteins; chemical structure

HE-08538 TRACY, RICHARD E., Sch. Med., Univ. Chicago, Chicago, Ill.
albumins; alpha globulin; atherosclerosis; Evans blue; hyperlipemia; kidney..renal tubular transport; lipoproteins..serum lipoproteins; nephrotic syndrome; proteins; proteinuria

HE-08560 LILLEHEI, JAMES P., Univ. Minnesota, Minneapolis, Minn.
lung..alveolus; chemotherapy; lung disease; aerosols; antibiotics; temperature; atelectasis

HE-08587 HEALD, FELIX P., Children's Hosp. of District of Columbia, Washington, D.C.
atherosclerosis; arteries..aorta; lipids..plasma lipids; child development; nutrition; age; sex differences; ethnic groups; hormones

HE-08601 MEYER, EDWARD C., Thomas M. Fitzgerald Mercy Hosp., Darby, Pa.
alloxan; blood coagulation..fibrin; blood coagulation ..plasmin; enzymes; exudates; hyaline membrane disease, pulmonary; lymphatic system; lymph flow; phoscene; pulmonary edema; pulmonary fibrosis

HE-08655 CLARK, RICHARD F., Dixie Hosp., Hampton, Va.
age; arteries..aorta; arteriosclerosis; blood coagulation ..fibrin; blood coagulation..prothrombin; endothelium; immune sera; thrombosis

HE-08676 ASHWORTH, CHARLES T., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
epididymal fat pad; lipids; chylomicrons; fatty acids; triglycerides; lipoproteins..serum lipoproteins; metabolic diseases; atherosclerosis; hyperlipemia; liver cells

HE-08729 JENNINGS, ROBERT B., Sch. Med., Northwestern Univ., Chicago, Ill.
cell components..endoplasmic reticulum; cell components.. mitochondria; enzymes substrate; glycolysis; heart contraction; heart..papillary muscle; heart..ventricles; injury; myocardial ischemia and hypoxia; oxidative phosphorylation; research programs; tritium; myocardial infarct

HE-08756 SPRARAGEN, SANFORD C., Veterans Admin. Hosp., Brooklyn, N.Y.
blood cells..monocytes; blood cells..lymphocytes; cell migration; arteries; endothelium; cholesterol; atherosclerosis; tritium; heart..myocardium; deoxyribonucleic acid

HE-08786 SHODEN, ARNE N., Inst. Biological Res., Culver City, Cal.
hemosiderin; ferritin; synthesis; Kupffer cells; fractionation; liver cells

HE-08794 MAJNO, GUIDO, Harvard Med. Sch., Boston, Mass.
endothelium; endothelium permeability and transport; capillaries; ischemia; hemostasis; diffusion; regeneration; colloids; trypan blue; implants

HE-08813 WEXLER, BERNARD C., May Inst. Med. Res., Cincinnati, Ohio
aldosterone; steroids; myocardial infarct; muscle necrosis; isoproterenol; arteriosclerosis; diet; fats; adrenalectomy; catecholamine inhibitors; enzymes

HE-08819 FERENCZ, CHARLOTTE, Edward J. Meyer, Mem. Hosp., Buffalo, N.Y.
arteries, pulmonary artery; veins, pulmonary veins; capillary beds; child development; veins

HE-08940 ELIOT, ROBERT S., Univ. Minnesota Hosp., Minneapolis, Minn.
heart diseases; heart enlargement..ventricular hypertrophy; connective tissue; hydroxyproline; elastin; muscle proteins; hemoglobin; electrolytes; oxygen transport; myoglobin

HE-08941 HULL, MAURICE W., Montana State Col., Bozeman, Montana
pulmonary emphysema; diet; plants; stomach, rumen; diagnostic tests; fermentation; antihistamines; irritants; hypersensitivity; veterinary medicine

HE-08982 REICHARD, SHERWOOD M., Med. Col. Georgia, Augusta, Ga.
reticuloendothelial system; trauma; endotoxins; radiation protection

HE-08987 MANNING, JAMES A., Univ. Rochester Med. Cr., Rochester, N.Y.
arteries..bronchial arteries; arteries..pulmonary artery; congenital heart disease; blood collateral circulation; capillaries; blood vessels shunts; lung..bronchi; contrast media

HE-08996 MIDDLETON, CHARLES C., Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.
hypertension (systemic); atherosclerosis; diet; lipids; cholesterol; age; aldosterone; proteases..renin; fatty acids

HE-09047 BOLANDE, ROBERT P., Sch. Med., Western Reserve Univ., Cleveland, Ohio
lung diseases; lung..alveolus; surface properties; lipoproteins; cell culture; fetus; fibroblasts; phagocytosis; bacteria; cytotoxicity

HE-09103 KRITCHEVSKY, DAVID, Wistar Inst., Philadelphia, Pa.
cholesterol; tissue culture; cells; reaction sites; sterols; cholesterol esters; enzyme inhibitors; lecithins; radiolabeled carbon; tritium; atherosclerosis

HE-09126 NATHANIEL, E.J.H., Med. Col. Georgia, Augusta, Ga.
electron microscopy; spinal cord..dorsal root; blood cells..thrombocytes; thrombosis; blood coagulation.. anticoagulants; kidney..glomerulus; nephrosis

HE-09127 CHANDLER, A.B., Med. Col. Georgia, Augusta, Ga.
electron microscopy; blood cells..thrombocytes; blood coagulation..fibrin; blood coagulation.. anticoagulants; cell aggregation; binding; thrombosis

HE-09203 THOMAS, DUNCAN P., Lemuel Shattuck Hosp., Boston, Mass.
pulmonary arterial occlusions; blood coagulation.. Hageman factor; endotoxins; blood cells..thrombocytes; blood flow; radiation effects..whole body radiation; heparin; neomycin; reticuloendothelial system; bronchoconstrictors; serotonin; pregnancy; dyspnea; paraplegia

HE-09214 WOOD, SUMNER, Jr., Johns Hopkins Hosp., Baltimore, Md.
blood circulation dynamics; microcirculation; abdominal viscera; spleen; ascites tumors; radiation effects; chemotherapy; endotoxins; tritium; radiolabeled iodine; metastasis

HE-09222 ROBB, HERBERT J., Sch. Med., Wayne State Univ., Detroit, Mich.
anaphylaxis; microcirculation; blood flow; lung; mesentery; intestines

HE-09228 WESWIG, PAUL H., Grad. Sch., Oregon State Univ., Corvallis, Ore.
heart..myocardium; calcification; enzymes; radiolabeled selenium; blood cells..erythrocytes; muscular diseases; veterinary medicine

HE-09295 HASS, GEORGE M., Presbyterian-St. Luke's Hosp., Chicago, Ill.
muscles..myofibrils; muscles..skeletal muscle; heart myocardium; muscular diseases; muscle contraction; muscle relaxing factor; phosphotransferases, ATP; AMP phosphotransferase; aminohydrolases..adenylate deaminase; phosphatases..adenosine triphosphatase; molecules..macromolecules; immunology..antibodies; agglutination reaction (agglutinin)

HE-09311 BRUNSON, JOEL G., Univ. Mississippi Med. Cr., Jackson, Miss.
electron microscopy; kidney disorders; liver diseases; radiation effects; intestines; immunology; hypoglycemia; endotoxins; blood vessels; blood--brain barrier; pregnancy.. placental transfer; hypersensitivity; fungi..Blastomyces dermatitidis; viruses..equine rhinopneumonitis virus; viruses..pox viruses

HE-09342 FREIMAN, DAVID G., Beth Israel Hosp., Boston, Mass.
electron microscopy; endothelium; thrombosis; blood coagulation..fibrinolysis; blood coagulation..anticoagulants; blood cells..thrombocytes; cell aggregation; injuries

HE-09343 EDWARDS, SIDNEY W., Southwest Texas State Col., San Marcos, Tex.
injuries..burns; endothelium; blood cells.. erythrocytes; cell aggregation; hypoxia; blood flow; hemostasis

HE-09417 DAVIES, JACK N., Albany Med. Col., Albany, N.Y.
heart diseases; heart..myocardium; lymphatic system; thiamine; dietary deficiency; primates..monkeys

HE-09431 ATIK, MOHAMMAD, Sch. Med., Univ., Louisville, Louisville, Ky.
hemorrhagic shock; liver damage; arteries..hepatic artery; bile ducts; hepatectomy; liver cirrhosis; carbon tetrachloride; therapy; drugs; computer analysis

HE-09447 BERMAN, HERBERT J., Col. Liberal Arts, Boston Univ., Boston, Mass.
electron microscopy; microcirculation; regeneration; phylogeny; hemostasis; thrombosis; tissue culture; fibroblasts; endothelium; age; blood cells.. thrombocytes; blood cells..erythrocytes; cell aggregation; molecules..macromolecules; endotoxins

HE-09453 ARENDT, KENNETH A., Sch. Med., Loma Linda Univ., Loma Linda, Cal.
hemorrhage; blood cells..erythrocytes; endothelium; capillaries; microcirculation; venoms; petechial hemorrhage

HE-09458 FITZPATRICK, MARTIN J., Will Rogers Hosp., Saranac Lake, N.Y.
lung; connective tissue; amino acids; glycoproteins; age; arteries..aorta; proteases..collagenase; lung diseases

HE-09472 DAVIDSON, WARREN D., Harbor Gen. Hosp., Torrance, Cal.
diagnostic tests; urine; enzymes; kidney disorders; kidney function; kidney circulation; kidney..renal tubules; reaction sites; carbohydrases..lysozyme; carbohydrases..hyaluronidase; proteases..peptidases; proteases..leucine aminopeptidase; azotemia; kidney transplantation; transplantation reiection

HE-09481 LAUTSCH, ELIZABETH, Temple Univ. Med. Sch., Hosp., Philadelphia, Pa.
heart valves; heart..endocardium; heart function; valvular heart diseases; injuries..wound healing; thrombosis; collagen; heart valves prosthesis

HE-09543 REINER, LEOPOLD, Bronx-Lebanon Hosp. Cr., Bronx, N.Y.
maternal--fetal; hypoxia; blood collateral circulation; arteries..coronary arteries; pulmonary hypertension; altitude

HE-09551 GONZALEZ, I. ERNEST, Sch. Med., Univ. California, San Francisco, Cal.
atherosclerosis; blood vessels prosthesis; plastics..dacron; plastics..teflon; arteries.. abdominal arteries; arteries..aorta; blood cells; blood..plasma; hyperlipemia..hypercholesteremia

HE-09566 MARTIN, ARTHUR M., Jr., Duke Hosp., Durham, N.C.
hemorrhagic shock; blood flow; blood pressure; heart function; heart failure

HE-09622 STILL, WILLIAM J., Med. Col. Virginia, Richmond, Va.
atherosclerosis; endothelium; hemosiderin; lipids; thrombosis; macrophages; sex difference; radioisotopes..thorium228

HE-09630 KORY, ROSS C., Veterans Admin. Hosp., Milwaukee, Wis.
lung diseases; pulmonary function; lung volume; pulmonary diffusion; pulmonary emphysema; age

HE-09666 SUTTON, GEORGE C., Cook County Hosp., Chicago, Ill.
myocardosis; alcoholism; epidemiology; blood circulation dynamics; immunology..antigens; complement--fixation tests; neutralization tests; virus diseases; heart function

HE-09691 LIKAR, LYDIA J., Memorial Hosp., Worcester, Mass.
mucopolysaccharides; mast cells; arteries; estrus cycle; atherosclerosis; sex hormones; uterus..endometrium; ovary..corpus luteum

HE-09779 WORTHEN, HOWARD G., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
enzymes; kidney..renal tubules; kidney disorders; electron microscopy

HE-10048 HORN, ROBERT G., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
blood cells..neutrophil leukocytes; cell components.. cytoplasmic granules; arginine; sulfomucopolysaccharides; inflammation; Shwartzman phenomenon

HE-10065 BURKHOLDER, PETER M., Duke Univ. Med. Cr., Durham, N.C.
kidney disorders; hypersensitivity..delayed hypersensitivity; immunology..complement; blood coagulation ..fibrin; gamma globulin; binding; immunological tests; chemical structure--biological activity

HE-10077 KURNICK, NATHANIEL B., California Col. Med., Long Beach, Cal.
renal hypertrophy; nephrectomy; nucleic acids; proteins; radiolabeled; lipids

HE-10078 KALEY, GABOR, New York Med. Col., New York, N.Y.
inflammation; injuries..burns; proteases; cell components.. lysosomes; cell components..mitochondria; endothelium permeability; irritants..skin irritants; endotoxins; vitamin A; adrenalectomy; radiolabeled iodine

NB-01032 PERRY, JOHN H., Sch. Med., Baylor Univ., Houston, Tex.
appetite; brain..hypothalamus; brain lesions; diabetes.. alloxan diabetes; dietary deficiency; gold thioglucose; hydrocephalus; obesity; vitamin B12

NB-01230 SHERMAN, FRANK E., Children's Hosp., Pittsburgh, Pa.
bacteria; immunology..antigens; infectious diseases; nervous system disorders; viruses

NB-01289 BROWNSON, ROBERT H., Med. Col. Virginia, Richmond, Va.
radiation effects; ionizing radiation; nervous system.. central nervous system; nerves..oligodendroglia; enzymes; electron microscopy; cell components

NB-01305 HARTMANN, HENRIK A., Sch. Med., Univ. Wisconsin, Madison, Wis.
iminodipropionitrile; nerves..axons; spinal cord lesions; nerves..motor neurons; brain lesions; nervous system.. central nervous system; ribonucleic acid; radioautography; radiolabeled carbon; electron microscopy; nucleotides; enzymes; purines; pyrimidines

NB-01363 McNEIL, CRICHTON, Holy Cross Hosp., Salt Lake City, Utah
cerebral palsy; family; saliva; immunology..antigens; blood groups; N--acetyineuraminic acid; maternal--fetal; Coombs test; 17--ketosteroids

NB-01539 LUSE, SARAH A., Sch. Med., Washington Univ., St. Louis, Mo.
nerves..myelin; nerves..demyelination; nerves degeneration; brain; nervous system..auditory nerve; nervous system..vestibular nerve; ganglion, nervous system; histogenesis

NB-01962 BARDAWIL, WADI A., St. Margaret's Hosp., Boston, Mass.
arteriosclerosis; temporal arteritis; bioassay; elastin; proteases..elastase; enzymes inhibitors.. elastase inhibitors; arteries; carbohydrates; elastic tissue; microorganisms; tryptophan

NB-02038 BOURNE, GEOFFREY H., Sch. Hlth. Sci., Emory Univ., Atlanta, Ga.
muscular dystrophy; neuromuscular disorders; nerves degeneration; injury; muscle; chemotherapy; nucleotides

NB-02255 TERRY, ROBERT D., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
nerves..myelin; electron microscopy; nervous system; brain edema; electrolytes; brain; allergic encephalomyelitis; lipoidal diseases; molecules

NB-02275 PENTSCHEV, ANGEL, Maryland Medical-Legal Fdn., Baltimore, Md.
tellurium; pregnancy; manganese; brain disorders; primates..monkeys; hydrocephalus; athetosis; thiophenes; membrane permeability and transport; liver damage; brain.. cerebral cortex

NB-02566 OSTERBERG, KENNETH A., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
gliosis; brain; implants; oxidoreductases; histogenesis; nerves..astrocytes; brain lesions; proteins; ribonucleic acid

NB-02603 ROMANOL, FLAVIU C., Boston City Hosp., Boston, Mass.
enzymes; muscle..skeletal muscle; nerves

(contd)

LISTING OF GENERAL RESEARCH AREAS

PATHOLOGY (CONTD)

NB-02672 MOSER, HUGO W., Massachusetts Gen. Hosp., Boston, Mass.
lipids; glycolipids; brain; nerves..demyelination; lipoidal diseases; screening; metabolites; mental retardation; nervous system disorders; amino acid; polysaccharides; sugar; ketoacids

NB-02720 CHASON, JACOB L., Col. Med., Wayne State Univ., Detroit, Mich.
brain; mental disorders; respiratory enzymes

NB-02748 SULKIN, NORMAN M., Bowman Gray Sch. Med., Winston-Salem, N.C.
aging; cytology; dietary deficiency; electrostimulus; enzymes inhibitors..amine oxidase inhibitors; ganglion (nervous system)..autonomic ganglia; hypoxia; nerves.. neurons; pigments; stimulants..antidepressants

NB-02951 RIGDON, R. H., Sch. Med., Univ. Texas, Galveston, Tex.
muscle..skeletal muscle; muscle necrosis; epizootiology; autopsy; poultry; muscular diseases

NB-02977 VOLK, BRUNO W., Jewish Chron. Disease Hosp., Brooklyn, N.Y.
sphingolipidosis; brain; primates..monkeys; enzymes; nerves..neurons; nerves..neuroglia

NB-03021 SAMORAJSKI, THADDEUS, Cleveland Psy. Res. Fdn., Cleveland, Ohio
lipofuscin; nervous system..central nervous system; aging; environment; spectrophotofluorometry; psychophysiology; radiation effects; basal metabolism

NB-03173 YONEZAWA, TAKESHI, Kyoto Pref. Univ. Med., Kyoto, Japan
nerves, myelination; nerves, demyelination; nervous system..central nervous system; nervous system.. peripheral nerves; nerves..neurons; antimetabolites; neurotoxins; radiation effects

NB-03533 ZIMMERMAN, H.M., Montefiore Hosp., New York, N.Y.
brain edema; inflammation; stereotaxia; tuberculin hypersensitivity; blood cells..leukocytes; cell migration; blood vessels; nerves

NB-03600 VOLK, BRUNO W., Jewish Chron. Dis. Hosp., Brooklyn, N.Y.
muscular dystrophy; nucleotides; muscle proteins; enzymes; phosphatases; oxidases; muscle

NB-03601 COURVILLE, CYRIL B., Los Angeles Co. Hosp., Los Angeles, Cal.
multiple sclerosis; fats; cerebroarterial occlusions and thrombosis; capillaries; brain damage; nerves.. demyelination

NB-03670 VOGEL, F. STEPHEN, Sch. Med., Duke Univ., Durham, N.C.
hepatolenticular degeneration; tissue respiration; oxidoreductases; metal complexes; copper; nervous system

NB-03677 CLASEN, RAYMOND A., Presby.-St. Luke's Hosp., Chicago, Ill.
brain; intracranial pressure; brain edema; electrolytes; blood-brain barrier; primates..monkeys; anti-inflammatory agents; staining

NB-03678 WAGGENER, JOHN D., Barrow Neuro. Inst., Phoenix, Ariz.
brain; brain edema; brain neoplasms; blood coagulation.. thromboplastin; peripheral nerves lesions; muscular diseases; encephalitis; epilepsy; meninges

NB-03760 WALKER, BRUCE E., Sch. Med., Univ. Texas, Galveston, Texas
tritium; injury; spinal cord; cell migration; nerves..neuroglia; connective tissue; blood cells.. leukocytes

NB-03802 BASSETT, JOHN W., Physicians and Surgeons Hosp., Portland, Ore.
parathyroid glands transplantation; skin transplantation; transplantation..homotransplantation; transplantation rejection; brain..cerebrum

NB-03833 DAVIS, MICHAEL D., Meharry Med. Col., Nashville, Tenn.
cerebrovascular system; nervous system..central nervous system; hypertension (systemic); cerebral hemorrhage; cerebrovascular disorders

NB-03853 SAMORAJSKI, THADDEUS, Psychiatric Res. Fdn., Cleveland, Ohio
nervous system..central nervous system; nervous system.. autonomic nervous system; neurohormones; catecholamines; radiolabeled; nerve impulse transmission; nerves..synapse; blood-brain barrier; vasoactive agents..vasodilators; enzymes inhibitors..monoamine oxidase inhibitors; hormones; sensory mechanisms

NB-04147 CAUNA, NIKOLAJS, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
anesthetics; choline esterases; enzymes inhibitors.. anticholinesterase; nerve endings; nervous system.. autonomic nervous system; nervous system disorders; skin

NB-04165 SCHECHTER, MANNIE M., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
cerebrovascular system; cerebrovascular disorders; blood vessels models; angiography

NB-04171 WILSON, WILBOR O., Grad. Sch., Univ. California, Davis, Cal.
brain..hypothalamus; brain lesions; eye; histogenesis; neuroendocrine systems; photoperiodism; pituitary gland; reproductive system; temperature

NB-04173 TERPLAN, KORNEL L., Childrens Hosp., Buffalo, N.Y.
pregnancy..perinatal; brain disorders; pregnancy..childbirth; brain damage; hypoxia neonatorum; hyaline membrane disease, pulmonary; cerebrovascular disorders; congenital heart disease; encephalitis; hypersensitivity

NB-04186 MILLER, JAMES Q., Sch. Med., Univ. Virginia, Charlottesville, Va.
blood cells..leukocytes; blood groups; children; congenital abnormalities; cooperative study; ethnic groups.. Negroes; family; genetics..autosomes; genetics.. chromosomes; genetics..trisomy; infants (human); nervous system disorders

NB-04500 ROTH, LLOYD J., Univ. Chicago, Chicago, Ill.
radioautography; cytology; drugs; radiolabeled; nervous system..central nervous system; solubility.. water soluble

NB-04827 CARTER, CHARLES H., Sunland Training Ctr., Orlando, Fla.
diagnostic tests; chondroitin sulfate; mucopolysaccharides; staining; mental retardation; children; body fluids

NB-04872 HASS, GEORGE M., Presbyterian-St. Luke's Hosp., Chicago, Ill.
lead encephalitis; metal chelates; blood cells.. erythrocytes; bone marrow; retinopathy; nervous system.. peripheral nerves; kidney neoplasms; collagen; neuromuscular disorders; carcinoma; kidney..renal cortex; kidney..renal tubules; infant animals

NB-04964 FIOL, ORSA E., Univ. Hosp., Rio Piedras, Puerto Rico
brain lesions; tetanus toxin; brain..brain stem; brain.. cerebrum; heart conduction system

NB-04969 SCHEINESSON, GEORGE P., Willowbrook State Sch., Staten Island, N.Y.
metachromatic leucoencephalopathy; mental retardation; anilines; infant human; diagnostic tests

NB-04992 ROOFE, PAUL G., Sch. Med., Univ. Kansas, Lawrence, Kans.
oxygen tension; joints..knee; vascular disorders; intervertebral disks; atmospheric pressure; photography; infant animals..newborn; capillaries; cerebrovascular disorders

NB-05112 RIEDERS, FREDRIC, Philadelphia Hlth. Res. Fund, Philadelphia, Pa.
infants, human; brain; chemical structure--biological activity; crib death; death, sudden death

NB-05124 BALINT, JOHN A., Albany Medical Col., Albany, N. Y.
amaurotic familial idiocy; genetics; blood cells.. erythrocytes; lipoproteins; lipoproteins; cell components..cell membrane

NB-05160 MARGOLIS, GEORGE, Dartmouth Med. Sch., Hanover, N.H.
injuries; contrast media; nervous system..central nervous system; blood circulation dynamics; perfusion; hypothermia; heart; silicon; embolism; vasoactive agents; hyperbaric oxygenation; hypertension (systemic)

NB-05216 CLAUSEN, JORGEN, Univ. Copenhagen, Copenhagen, Denmark
brain; brain neoplasms; enzymes..isoenzymes; phosphomonoesterases..acid phosphatases; lipids; immunology..antibodies; polar molecules; globulins; multiple sclerosis; neuromuscular disorders; brain disorders

NB-05298 GORDON, LAWRENCE H., Sch. Med., Univ. Washington, Seattle, Wash.
meningomyelocele; genetics; maternal-fetal; spinal cord; histogenesis; teratogenic agents; trypan blue

NB-05324 MORRIS, CHARLES E., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
muscle..skeletal muscle; organ culture; polymyositis; dermatomyositis; hypersensitivity..delayed hypersensitivity; neoplasms

NB-05469 D'AGOSTINO, ANTHONY N., Sch. Med., Univ. Utah, Salt Lake City, Utah
muscles, skeletal muscle; heart, myocardium; electron microscopy; fluoroacetates; 2,4--dinitrophenol; cortisone; electrolytes; enzymes; heart diseases; muscular diseases

NB-05572 GONATAS, NICHOLAS K., Hosp. of Univ. Pennsylvania, Philadelphia, Pa.
electron microscopy; brain..cerebral cortex; cell components; amaurotic familial idiocy; leukodystrophies; brain disorders; phosphomonoesterases; nucleotidases; oxidoreductases; aging

NB-05647 ALKSNE, JOHN F., Harbor Gen. Hosp., Torrance, Cal.
electron microscopy; meninges..arachnoid villus; membrane permeability and transport; proteins; blood cells..erythrocytes; reaction sites; cerebrospinal fluid; hydrocephalus; intracranial pressure

NB-05684 LAPHAM, LOWELL W., Univ. Rochester Med. Ctr., Rochester, N.Y.
cytology; nerves..astrocytes; cell division..mitosis; liver cirrhosis; hypoglycemia; genetics..polyploidy; brain lesions; blood; ammonia; glioblastoma multiforme; tissue culture

NB-05794 MILLER, JAMES E., Albany Med. Col., Albany, N.Y.
muscles..extraocular muscles; muscles..myofibrils; muscles..sarcoplasmic reticulum; cell types; cell components..mitochondria; choline esterase; lipids; enzymes; muscle proteins; age; binding; immunology..antibodies; exophthalmos; myasthenia gravis; myositis; primates

NB-05830 NELSON, ERLAND, Sch. Med., Univ. Maryland, Baltimore, Md.
viruses, Menan virus; poliomyelitis--like diseases; blood cells..leukocytes; virus diseases; virus replication; disease transmission; ribonucleic acid; nervous system..central nervous system

NB-05901 **HILL, ROBERT M., Mercy Inst. Biomedical Res., Denver, Colo.**
nerves..neurogenesis; nerves..myelin; nerves.. myelination; thiamine; manganese; dietary deficiency; lipids

OH-00002 **NELSON, NORTON, Sch. Med., New York Univ., N.Y.C.**
air pollution; environment; industrial medicine; lung neoplasms

OH-00036 **EMANUEL, DEAN A., Marshfield, Clinic Fdn., Marshfield, Wis.**
dust; farmer's lung; fungi..Coniosporium corticale; hypersensitivity; lung disease; maple bark disease; pulmonary fibrosis; pulmonary granuloma; radiography

OH-00044 **RANKIN, JOHN, Sch. Med., Univ. Wisconsin, Madison, Wisconsin**
farmer's lung; occupational hazards; epidemiology; allergens..airborne allergens; chemical structure--biological activity

OH-00070 **JENKINS, DANIEL E., Col. Med., Baylor Univ., Houston, Tex.**
air pollution; pulmonary emphysema; pulmonary function; lung; tobacco; smoking; pulmonary ischemia and hypoxia; immunology; autopsy

OH-00084 **FREEMAN, GUSTAVE, Stanford Res. Inst., Menlo Park, California**
air pollution; nitrogen dioxide; respiratory diseases, toxicology

OH-00132 **GROSS, PAUL, Mellon Inst. Industrial Res., Pittsburgh, Pa.**
air pollution; metaplasia; trachea; carcinogenesis; lung neoplasms; dust; epithelium; occupational hazards; pneumoconiosis

OH-00151 **BOREN, HOLLIS G., Trudeau Foundation, Saranac Lake, N.Y.**
air pollution; nitrogen dioxide; carbon sulfur dioxide; ozone; respiratory diseases; metal; pulmonary airway resistance; pulmonary ventilation; pulmonary diffusion; dust; gases

OH-00158 **DENKO, CHARLES W., Col. Med., Ohio State Univ. Res. Cr., Columbus, Ohio**
blood vessels vasomotion; mechanical vibrations; exercise; arteries..aorta; radiolabeled sulfur; vasoactive agents; cartilage; hypophysectomy; occupational diseases

OH-00189 **WADA, SUNAO, Sch. Med., Hiroshima Univ., Kasumi-cho, Hiroshima, Japan**
carcinogens; lung neoplasms; carcinoma; respiratory system; occupational hazards; air pollution; toxicology; longitudinal study; bis (2--chloroethyl) sulfide; arsenic; nitrogen mustards; 2--bis(2--chloroethyl)amino--2H--1,3,2--oxazaphosphorinane 2--oxide; gases; halogenation

OH-00225 **GREENBURG, LEONARD, Albert Einstein Col. Med., New York, N.Y.**
air pollution; respiratory system; lung..bronchi; trachea; virus diseases; sulfur dioxide; gases; aerosols; carbon; viruses..respiratory viruses

OH-00226 **BUCKLEY, RAMON D., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
air pollution; nitrogen dioxide; germ--free; bacterial diseases; respiratory diseases

RH-00039 **da SILVA HORTA, JORGE, Med. Sch., Univ. de Lisboa, Lisboa, Portugal**
thorotrast; biometry; bone marrow diseases; neoplasms; liver cirrhosis; nervous system disorders; leukemia; granuloma

PERINATAL REVIEW

HD-01813 **HUBBELL, JOHN P., Jr., Boston Lying-in Hosp., Boston, Mass.**
infant human; pregnancy..perinatal; diabetes; maternal--fetal; nervous system disorders; congenital abnormalities; longitudinal study; cooperative study

HD-01820 **BISHOP, EDWARD H., Pennsylvania Hosp., Philadelphia, Pa.**
conferences; physical fitness; pregnancy.. perinatal; mortality; infant human

HD-01821 **JONES, WALTER S., Providence Lying-In Hosp., Providence, R.I.**
thyroid function; pregnancy; child development; hypothyroidism; thyroid hormones; therapy evaluation; mental retardation; infant human..newborn; longitudinal study; pregnancy loss; maternal--fetal

HD-01824 **FERRISS, GREGORY S., Sch. Med., Louisiana State Univ., Baton Rouge, La.**
cooperative study; electroencephalography; infant human.. newborn; infant human..premature infants; potentials.. evoked potentials; brain damage; congenital abnormalities; computer analysis; longitudinal study

NB-02356 **BROOKS, GLIDDEN L., Brown Univ., Providence, R.I.**
cerebral palsy; pregnancy..perinatal; genetics; brain damage; nervous system disorders; children; longitudinal study; cooperative study; learning; infant human; psychological tests

NB-02358 **ANDERSON, JOHN A., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
cerebral palsy; children; cooperative study; education.. medical education; genetics; longitudinal study; nervous system disorders; pregnancy..perinatal

NB-02360 **SLOBODY, LAWRENCE B., New York Med. Col., New York, N.Y.**
cooperative study; longitudinal study; cerebral palsy; nervous system disorders; pregnancy..perinatal; genetics; socioeconomics; infectious diseases; anesthesia; children

NB-02363 **WARE, H. HUDNALL, Jr., Medical Col. Virginia, Richmond, Va.**
cerebral palsy; nervous system disorders; children; pregnancy..perinatal; longitudinal study; cooperative study

NB-02366 **BONGIOVANNI, ALFRED M., Childrens Hosp., Philadelphia, Pa.**
cerebral palsy; cooperative study; infants, human; interviews; longitudinal study; medical personnel; neuropsychological tests; pregnancy..perinatal; training

NB-02367 **ISRAEL, S. LEON, Pennsylvania Hosp., Philadelphia, Pa.**
cerebral palsy; genetics; environment; autopsy; cooperative study; longitudinal study; pregnancy..perinatal

NB-02370 **BENSON, RALPH C., Sch. Med. Univ. Oregon, Portland, Oregon**
cooperative study; cerebral palsy; mental retardation; pregnance..perinatal; children; neuropsychological tests; speech; hearing tests; longitudinal study

NB-02390 **GATES, MARGUERITE J., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
cooperative study; longitudinal study; cerebral palsy; nervous system disorders; pregnancy; pregnancy..perinatal; children; genetics; socioeconomics

NB-02400 **JANEWAY, CHARLES A., Children's Hosp. Med. Cr., Boston, Mass.**
cooperative study; cerebral palsy; congenital abnormalities; pregnancy..perinatal; pregnancy..childbirth; longitudinal study; neuropsychological tests; children

NB-02404 **WESTPHAL, MILTON C., Children's Hosp., Buffalo, N.Y.**
longitudinal study; children; nervous system disorders; diagnostic tests; cerebral palsy; mental retardation; pregnancy..childbirth; pregnancy..perinatal; cooperative study; infant human..newborn; virus diseases

NB-02406 **HUGHES, JAMES G., Col. Med., Univ. Tennessee, Memphis, Tenn.**
brain damage; cerebral palsy; cooperative study; longitudinal study; neuropsychological tests; pregnancy.. perinatal

NB-03166 **ENGEL, RUDOLF C.H., Sch. Med., Univ. Oregon, Portland, Ore.**
infant human..newborn; nervous system disorders; audiostimulus; brain damage; children; photostimulus

NB-03190 **ADAMS, RAYMOND D., Sch. Med., Harvard Univ., Boston, Mass.**
brain; embryology; infant human..newborn; pregnancy; brain damage; congenital abnormalities; morbidity; fetus

NB-03571 **ADAMS, RAYMOND D., Mass. Gen. Hosp., Boston, Mass.**
cooperative study; brain; nervous system disorders; congenital abnormalities; pregnancy, perinatal; brain disorders; embryology

NB-04828 **BOGGS, THOMAS R., Jr., Pennsylvania Hosp., Philadelphia, Pa.**
acid-base equilibrium; brain damage; carbon dioxide tension; cooperative study; electrolytes; hyaline membrane disease, pulmonary; infants, human..newborn; longitudinal study; lung..artificial lung; oxygen inhalation therapy; oxygen transport; respiration, positive pressure breathing; sodium bicarbonate; therapy evaluation

NB-04831 **ANDERSON, JOHN A., Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn.**
calorimetry; oxygen consumption; carbon dioxide transport; instrumentation; streptomycin; hyperbilirubinemia; hypoxia; cooperative study; longitudinal study; brain damage; infant human..newborn; infant human..premature infants; respiration

NB-05138 **BOGG, THOMAS R. Jr., Pennsylvania Hosp., Philadelphia, Pa.**
ion anion; kernicterus; infants, human, newborn; infants, human..premature infants; fatty acids; bilirubin; ketone bodies; oleic acid; binding; albumins; stress

PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

AC-00180 **GENNARO, JOSEPH F., Jr., Col. Med., Univ. Louisville, Louisville, Ky.**
immunology; gamma globulin; antivenins; biological compounds preparation; immune sera; reptiles

AI-00023 **FINLAND, MAXWELL, Boston City Hosp., Boston, Mass.**
antibiotics; chemical structure--biological activity; therapy evaluation; toxicology; hospitals patients; bacteria..Staphylococcus; bacteria..enterococcus; bacteria..Aerobacter; bacteria..Proteus; bacteria.. Pseudomonas; bacteria..Klebsiella; serology

AI-00036 **MACKANESS, G.B., Trudeau Med. Res. Labs., Saranac Lake, N.Y.**
bacteria..mycobacteria, atypical; symbiosis; growth, microorganisms; tuberculin tests; isoniazid; therapy evaluation

AI-00226 **ANCHEL, MARJORIE, New York Botanical Garden, N.Y.C.**
antibiotics; chemical structure--biological activity; fungi..Basidiomycetes; genetics; metabolites; polyacetylenes; taxonomy

(contd)

PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS (CONTD)

AI-00618 CARTER, HERBERT E., Grad. Sch., Univ. Illinois, Urbana, Ill.
antibiotics; fungicides; fungi..Streptomyces venezuelae; filipin; chloramphenicol; neomycin; culture media; chemical structure--biological activity; radiolabeled carbon; cooperative study

AI-02241 COPE, ARTHUR C., Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.
antibiotics; polyenes; molecular structure; fungichromin; lagosin; rimocidin; amphotericin--B

AI-02350 SMITH, CARL C., Christ Hosp., Inst. Med. Res., Cincinnati, Ohio
antimalarials; biguanides; chemical structure--biological activity; chlorguanide; metabolites; triazines

AI-02788 WAILES, JOHN L., Sch. Phar., Montana State Univ., Missoula, Mont.
food additives; food preservation; fungi..molds; methyl p-hydroxybenzoate; oxygen consumption; propyl-hydroxy-benzoate; screening; sorbic acid; surface active agents

AI-03600 McLEAN, ROSS L., Sch. Med., Emory Univ., Atlanta, Ga.
tuberculosis; methylprednisolone; pulmonary function; therapy evaluation

AI-03751 RUSSELL, FINDLAY E., Loma Linda Univ., Los Angeles, Cal.
venoms; reptiles; antivenins; immune sera; immunology.. antigens; immunology..antibodies; fractionation

AI-03949 SAX, SYLVAN M., Western Pennsylvania Hosp., Pittsburgh, Pa.
quinolines; quinine; liver; metabolites; chemical structure --biological activity

AI-05217 BURBRIDGE, THOMAS N., Univ. California Med. Cr., San Francisco, Cal.
pyridoxine; diagnostic tests; drugs; criteria; serology; isoniazid; tuberculosis; therapy

AI-05241 RIEGELMAN, SIDNEY, Sch. Pharm., Univ. California Med. Cr., San Francisco, Cal.
griseofulvin; liver; bioassay; instrumentation--methodology; dosage; drugs tolerance; solubility; infectious diseases; intestinal absorption

AI-05321 DOLUISIO, JAMES T., Philadelphia Col. Pharm., Sci., Philadelphia, Pa.
drugs; tetracycline; metal complexes; binding; reaction sites; chemical structure--biological activity; conalbumin; albumins; therapy evaluation

AI-05603 HERRMANN, ERNEST C., Jr., Mayo Assn., Rochester, Minn.
virus inhibitors; natural products; viruses..arthropod-borne viruses (unspecified); viruses..herpes simplex virus; viruses..Newcastle disease virus; viruses..vaccinia virus; bioassay; screening; anthocyanins

AI-05891 SCHMIDT, L.H., Univ. California, Davis, Cal.
tuberculosis; chemotherapy; primates..Macaca mulatta; therapy evaluation; aerosols; isoniazid; streptomycin; p-aminosalicylic acid; adrenal cortex hormones; bacteria.. Bacillus Calmette-Guerin; drugs resistance; immunity

AI-06094 JACKSON, RICHARD T., Sch. Med., Emory Univ., Atlanta, Ga. antihistamines; vasoactive agents..vasopressors; nose; sex hormones; reproductive system; secretory mechanisms

AI-06453 CUTTING, WINDSOR C., Univ. Hawaii, Honolulu, Hawaii bacteria..Propionibacterium freudenreichii; virus inhibitors; antifertility factors; chemical structure--biological activity

AI-06486 EICHMAN, MARTIN L., Col. Pharm., Univ. Illinois, Chicago, Ill.
antibiotics..tetracycline; binding; blood proteins.. serum proteins; drugs receptors; molecular structure; functional groups; chemical structure--biological activity

AI-06562 ADROUNY, GEORGE A., Sch. Med., Tulane Univ., New Orleans, La.
insect bites stings venoms; venoms; toxins; chemical structure--biological activity; antimicrobial agents; immunology..antigens; synthesis; pyrrolidines; amines

AI-06629 CANTRELL, WILLIAM F., Univ. Tennessee Med. Units, Memphis, Tenn.
reticuloendothelial system; protozoa..Plasmodium berghei; phagocytosis; hepatectomy; splenectomy; anti--inflammatory agents; antimalarials; age; malaria

AM-00162 GUTMAN, ALEXANDER B., Mt. Sinai Hosp., New York, N.Y.
uric acid; stable isotope labeled nitrogen; glycine; ammonium chloride; gout; purine; aspartic acid; kidney.. renal tubules; glutamine; nucleosides; therapy

AM-00649 GEMMILL, CHALMERS L., Sch. Med., Univ. Virginia, Charlottesville, Va.
acclimatization; chemical structure--biological activity; cold; hyperthyroidism; iodination; metal chelates; pentobarbital; salicylates; thyroglobulin; thyroidectomy; thyroxine

AM-01547 WRIGHT, HAROLD N., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
toxicology; longitudinal study; tolbutamide; chlorpropamide; phenethylbiguanide; insulin; dosage; hypoglycemic agents

AM-02235 HURWITZ, LEON, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
acetylcholine; calcium; cocaine; ethanol; intestines.. ileum; muscle..smooth muscle; pilocarpine; potassium; potentials..membrane potentials; sodium

AM-03274 SOODAK, MORRIS, Sch. Sci., Brandeis Univ., Waltham, Mass.
antithyroid compounds; thiourea; transsulfurases; cell components..cytoplasm; thyroid gland; proteins; iodination

AM-04063 UVNAS, BORJE K.M., Karolinska Inst., Stockholm, Sweden
mast cells; slow reacting substance; histamine; silicic acid chromatography; phospholipids; radiolabeled phosphorus; chemical structure--biological activity; insects bites; nematodes..Ascaris suum; phospholipases.. lecithinase A; histamine releasing compound 48/80; venoms; bees; immunology..antigens

AM-04276 KENNY, ALEXANDER D., West Virginia Univ. Med. Cr., Morgantown, W. Va.
bone; parathyroid hormones; vitamin D; bone disorders; glycogenolysis; bone resorption; catecholamines; dihydrotachysterol

AM-04391 CODE, CHARLES F., Mayo Assn., Rochester, Minn.
chemical structure--biological activity; gastrone; muco-proteins; stomach..gastric juice; stomach..gastric juice inhibitors

AM-05025 AULSEBROOK, KENNETH A., Sch. Med., Univ. Arkansas Med. Cr., Little Rock, Ark.
sodium; intestinal absorption; potassium; ion..cation; glucose; diuretics; insulin; catecholamines

AM-05166 KRAATZ, C.P., Jefferson Med. Col., Philadelphia, Pa.
phenothiazine; potassium; muscle proteins; potentials.. membrane potentials; muscle..skeletal muscle; binding; ions; phosphates

AM-05298 WILLIAMSON, HAROLD E., Col. Med., State Univ. Iowa, Iowa City, Iowa
water--electrolyte balance; kidney function; diuretics; antimetabolites; kidney..renal tubular transport

AM-05588 GORDON, PAUL, Chicago Med. Sch., Chicago, Illinois
serotonin; catecholamines; genetics; muscular dystrophy; epinephrine; proteins

AM-05802 PLAA, GABRIEL L., Col. Med., State Univ. Iowa, Iowa City, Iowa
liver diseases; bromsulphalein; hepatitis; halogenated hydrocarbons; liver ischemia and hypoxia; liver function; phenothiazines

AM-05893 GANS, JOSEPH H., Sch. Med., Indiana Univ., Indianapolis, Ind.
liver function; hormones

AM-06095 DIENST, STANLEY G., Maine Med. Cr., Portland, Me.
uremia; organic acids; acidosis; diagnostic tests; blood ..plasma; tissue; amino acids

AM-06141 RALL, THEODORE W., Sch. Med., Western Reserve Univ., Cleveland, Ohio
muscle, smooth muscle; adenosine 3',5'-monophosphate; catecholamines; hormones; neurohormones; drugs

AM-06154 CRITZ, JERRY B., Sch. Med., Univ. South Dakota, Vermillion, S.D.
adrenal cortex hormones; diphenylhydantoin; exercise; aminotransferase..aspartate transaminase; adrenal glands; ascorbic acid

AM-06275 MOORE, KENNETH E., Dartmouth Med. Sch., Hanover, N.H.
catecholamines; stress; hormones; thyroid gland; drugs; toxicology

AM-06316 ZATZMAN, MARVIN L., Sch. Med., Univ. Missouri Med. Cr., Columbia, Mo.
sympathomimetic agents; kidney function; nervous system.. splanchnic nerves; electrolytes; stop flow technique

AM-06477 BURACK, WALTER R., Harvard Med. Sch., Boston, Mass.
adrenal glands; adrenal medulla; catecholamines; DOPA; insulin; proteins; reserpine; tritium; veins..adrenal vein

AM-06515 FUJIMOTO, JAMES M., Sch. Med., Tulane Univ., New Orleans, La.
1-N-allyl-3-hydroxymorphinan; antidiuresis; morphine; vasopressin; water loading

AM-06525 ROSTON, SIDNEY, Sch. Med., Univ. Louisville, Louisville, Ky.
epinephrine; norepinephrine; sulfhydryls

AM-06543 GRIFFIN, JAMES E., Sch. Allied Med. Professions, Univ. Pennsylvania, Philadelphia, Pa.
adrenal cortex hormones; anesthetics; muscle; nerves; ultrasonics; arthritis; chemotherapy; heat; electricity; instrumentation-methodology

AM-06592 ROBINSON, ROBERT L., Sch. Med., West Virginia Univ., Morgantown, W. Va.
catecholamines; adrenal medulla; reserpine; guanethidine; histamine; nicotine; morphine; tyramine

AM-06593 GARDNER, KENNETH D., Jr., Stanford Med. Cr., Palo Alto, Cal.
adrenal cortex hormones; aldosterone; dehydration (body fluids); diuretics; ethanol; hydration (body fluids); hypercalcemia; hypokalemia; kidney..renal tubular transport; radiolabeled carbon; sodium; sucrose; thiourea; tritium oxide; urea; vasopressin

AM-06594 KLINGMAN, GERDA I., Sch. Pharm., State Univ. of New York, Buffalo, N.Y.
enzymes; epinephrine; immune sera; infants (animals).. newborn; nerve growth promoting protein (sympathetic); nerves..innervation; nervous system..sympathetic nervous system; norepinephrine; symoathectomy.. immunosymoathectomy; tissue

AM-06629 TANABE, MASATO, Stanford Res. Inst., Menlo Park, Cal.
cell components..microsomes; chemical bonds; deuterium; enzymes; hydroxylation reactions; liver; organic compounds; stereochemistry; tritium

AM-06678 **BENNETT, DONALD R., Univ. Michigan Med. Cr., Ann Arbor, Mich.**
instrumentation; gastrointestinal system; intestinal motility; serotonin; strain gage; implants; telemetering; feeding; neostigmine; atropine; muscle contraction; primates..monkeys

AM-06953 **MANTHEI, ROLAND W., Jefferson Med. Col., Philadelphia, Pa.**
malnutrition; proteins; liver; cell components..microsomes; diet; dietary deficiency; enzymes; toxicology; drugs

AM-06959 **COHN, VICTOR H., Sch. Med., George Washington Univ., Washington, D.C.**
histamine; enzymes; enzymes inhibitors; hormones; proteases..trypsin; transmethylases; quinolines; gastrointestinal system; gastrointestinal motility; antimalarials; oxidoreductases..monoamine oxidase

AM-07146 **ERIKSEN, STUART P., Sch. Pharm., Univ. Wisconsin, Madison, Wis.**
organic compounds; metabolites; breath composition; drugs; alcohols; amines; instrumentation-methodology; gas chromatography

AM-07147 **JARBOE, CHARLES H., Sch. Med., Univ. Louisville, Louisville, Ky.**
medicinal plants..viburnum; muscle relaxants..antispasmodics; estrus; uterus; fertility; pregnancy; menstruation

AM-07252 **HARRISON, TIMOTHY S., Univ. Michigan Med. Cr., Ann Arbor, Mich.**
catecholamines; adrenal glands; adrenal medulla; adrenal circulation; nerves..denervation; transplantation.. autotransplantation; hydrogen--ion concentration; magnesium; adrenal glands transplantation; calcium

AM-07283 **ELLIOTT, HOWARD C., Univ. Alabama Med. Cr., Birmingham, Ala.**
water--electrolyte balance; benzoic acids; inulin; creatinine; uric acid; magnesium; acetylsalicylic acid; kidney; arterial infusions; arteries..renal arteries; radiolabeled carbon; adrenal cortex hormones; adrenalectomy; hypophysectomy

AM-07445 **LITTLE, J. MAXWELL, Bowman Gray Sch. Med., Winston-Salem, N.C.**
serotonin; blood cells..erythrocytes; membrane permeability; sodium; potassium; glucose; galactose; fructose; reserpine; radiolabeled carbon; radiolabeled sodium; radiolabeleid potassium; intestines..small intestine; skin

AM-07447 **ASKARI, AMIR, Sch. Med., Cornell Univ., New York, N.Y.**
quaternary ammonium compounds; choline; blood cells.. erythrocytes; molecular structure; temperature; electrolytes; muscle..skeletal muscle; radiolabeled carbon; deaminases..adenylate deaminase; ion exchange and transport; adenosine triphosphate; membrane permeability and transport; electrophysiology

AM-07473 **ZVAIFLER, NATHAN J., Georgetown University Hosp., Washington, D.C.**
arthritis..rheumatoid arthritis; bioassay; chemotherapy; chloroquine; diffusion

AM-07681 **CALVERT, DEANE N., Sch. Med., Marquette Univ., Milwaukee, Wis.**
adipose tissue; adrenergic receptors; catecholamines; catecholamines inhibitors; epididmyal fat pad; fatty acids; hyperthyroidism; hypothyroidism

AM-07685 **KUPFER, SHERMAN, Mount Sinai Hosp., N.Y.C.**
kidney..renal tubular transport; kidney function; phosphorous; water-electrolyte balance

AM-07702 **KALSER, SARAH CHINN, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
benzoic acids; D-amphetamine; detoxication; drugs; hypothermia; liver; p-nitrobenzoic acid; procaine hydrochloride; sulfanilamide

AM-07704 **CROUT, J. RICHARD, Southwestern Med. Sch., Univ. Texas, Dallas, Tex.**
adrenergic receptors; heart..atrium; membrane permeability; norepinephrine; sympathomimetic agents; tyramine

AM-07712 **LUM, BERT K.B., Sch. Med., Marquette Univ., Milwaukee, Wis.**
intestines..jejunum; adrenergic receptors; muscle relaxation; cold; nerves degeneration; ganglion, nervous system..paraganglia; muscle..smooth muscle; drugs interaction, antagonism; catecholamines inhibitors; neosynephrine; methoxamine; dopamine; reserpine; norepinephrine; epinephrine; sympathomimetic agents

AM-07905 **MOSSBERG, SANFORD M., Montefiore Hosp., N.Y.C.**
ammonium; antibiotics; chloramphenicol; germ-free; intestines..small intestine; ion exchange; mucous membrane; neomycin; oxytetracycline

AM-07909 **THOMPSON, J. HEWARD, Univ. California Med. Cr., Los Angeles, Cal.**
atropine; autonomic reflexes; cocaine; fasting; hexamethonium compounds; hydrochloric acid; hydrogen-ion concentration; 5-hydroxytryptophan; intestinal motility; intestinal resection; intestines..duodenum; reserpine; serotonin; stomach..gastric juice

AM-07945 **BROWN, HENRY, Boston City Hosp., Boston, Mass.**
protamines; ammonia; blood vessels shunts..portacaval shunt; arginine; peptides; amidases..urease

AM-08018 **McISAAC, ROBERT J., Sch. Med., State Univ. New York, Buffalo, N.Y.**
hexamethonium compounds; kidney..renal tubular transport; binding; reaction sites; quatenary ammonium compounds; antimetabolites

AM-08078 **FRUEHAN, ALICE E., Albany Med. Cr. Hosp., Albany, N.Y.**
catecholamines; connective tissue; connective tissue diseases; epinephrine; norepinephrine; hypersensitivity

AM-08082 **FINGER, KENNETH F., Sch. Pharm., Univ. Wisconsin, Madison, Wis.**
blood pressure; carbohydrates; catecholamines inhibitors; chemical structure--biological activity; epididymal fat pad; fats; fatty acids; glycogenolysis; heart rate; lipases; liver; metabolites; oxygen consumption; phenylethylamines; phosphorylases; stereochemistry; sympathomimetic agents

AM-08083 **PLAA, GARBRIEL L., Col. Med., State Univ. Iowa, Iowa City, Iowa**
chemical structure--biological activity; hypochlorhinshinemia; isothiocyanate; kidney function; liver diseases; liver function; spleen

AM-08101 **ECKHARDT, EILEEN T., Col. Med., Univ. Vermont, Burlington, Vt.**
norepinephrine; liver; perfusion; liver function stimulants; Ritalin; cocaine; guanethidine; reserpine; transferases, catechol O--methyl transferase; enzyme inhibitors, monoamine oxidase inhibitors

AM-08190 **REHFUSS, MARY D., SISTER, Col. Saint Rose, Albany, N.Y.**
synthesis; pinacolones; amphenone B; ethylene oxide; stereochemistry; adrenal glands; ACTH inhibitors; chemical structure--biological activity

AM-08194 **JUNIPER, KERRISON, Jr., Univ. Arkansas Med. Cr., Little Rock, Ark.**
parasympatholytic agents; salivary glands; sweat glands; stomach..gastric juice; therapy evaluation; peripheral vascular system; secretory mechanisms

AM-08430 **HAYNES, ROBERT C., Jr., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
adrenal medulla; secretory mechanisms; catecholamines; catecholamines inhibitors; acetylcholine; nerveus system..sympathetic nerves; pancreas

AM-08431 **GOLDSTEIN, DORA B., Sch. Med., Stanford Univ., Palo Alto, Cal.**
barbital; drugs tolerance; drugs addiction; homeostasis; alanine; glutamates; bacteria..Escherichia coli; bacteria.. Pseudomonas

AM-08576 **SASKI, WITOLD, Col. Pharm., Univ. Nebraska, Lincoln, Nebr.**
surface active agents; membrane permeability and transport; blood cells..erthrocytes; hemolysis; solubility; barbiturates

AM-08577 **LA DU, BERT N., Jr., Sch. Med., New York Univ., New York, N.Y.**
drugs; esterases; enzyme substrate; genetics; genetic strains; environment; choline esterase.. pseudocholine esterase; drugs hypersensitivity; metabolic diseases; blood..plasma; cell components.. mitochondria

AM-08578 **GOVIER, WILLIAM C., Univ. Mississippi Med. Cr., Jackson, Miss.**
reticuloendothelial system; liver; acetylation; membrane permeability and transport; p--aminobenzoic acid; sulfanilamide; oxidoreductases; barbiturates

AM-08588 **CAFRUNY, EDWARD J., Univ. Michigan, Ann Arbor, Mich.**
kidney..renal tubular transport; drugs; reaction sites; probenecid; 2,4--dinitrophenol; sulfhydryls inhibitors; diuretics..mercurial diuretics; radiolabeled mercury;

AM-08589 **PALMER, ROGER F., Col. Med., Univ. Florida, Gainesville, Fla.**
drugs; cell components; heart..myocardium; cardiac glycosides; ouabain; sodium; potassium; phosphatases.. adenosine triphosphatase; muscle contraction; oxidative phosphorylation; 2,4-dinitrophenol; kidney; brain

AM-08610 **HARDINGE, MERVYN G., Sch. Med., Loma Linda Univ., Loma Linda, Cal.**
blood cells..erythrocytes; furfural; acetone; unsaturated compounds; ketones; cell components.. mitochondria; cell components..microsomes; toxicology; chloroform; diuretics; NADP; enzymes

AM-08649 **LANDON, ERWIN J., Sch. Med., Vanderbilt Univ., Nashville, Tenn.**
diuretics..mercurial diuretics; kidney cells; cell components; ion exchange and transport; sodium; potassium; mercury; organic compounds; chlorothiazide; reaction sites; phosphatases..adenosine triphosphatase; glycolysis; glucose

AM-08650 **SHOCKLEY, DOLORES C., Meharry Med. Col., Nashville, Tenn.**
blood proteins..plasma proteins; binding; drugs; lupus erythematosus;arthritis..polyarthritis; arthritis..rheumatoid arthritis; glomerulonephritis; myeloma, bone marrow..multiple myeloma; diabetes; liver cirrhosis; salicylates; phenylbutazone; barbiturates; adrenal; cortex hormones; sulfonamides; sulfonylurea

AM-08651 **DeGROOT, WILLIAM J., Univ. Texas Med. Br., Galveston, Tex.**
pulmonary function; hyperthyroidism; oxygen consumption; capillaries; vasoactive agents; acetylsalicylic acid; triiodothyronine; epinephrine; isoproterenol; reserpine; guanethidine; blood volume

(contd)

PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS (CONTD)

AM-08652 **BILES, JOHN A., Sch. Pharm., Univ. Southern California, Los Angeles, Cal.**
quaternary ammonium compounds; intestinal absorption; ion exchange and transport; membrane permeability and transport; organic acids; salts; diffusion; molecular weight

AM-08653 **CHIN, H.P., 2025 Zonal Ave., Los Angeles, Cal.**
atherosclerosis; lipids; cholesterol; uricosuric agents; lipids mobilizing factor, pituitary; salicylates

AM-08719 **DESPOPOULOS, AGAMEMNON, Sch. Med., Univ. New Mexico, Albuquerque, N.Mex.**
detoxication; organic acids; ion exchange and transport; membrane permeability and transport; adsorption; liver; kidney; eye; meninges.. choroid plexus; glucose; intestines; ascorbic acid; kidney circulation

AM-08751 **GOTH, ANDRES, Southwestern Med. Sch., Univ. Texas, Dallas, Tex.**
histamine; mast cells; fatty acids; dextran; amines; immunology; polymerases; lipids; anaphylaxis; cell culture

AM-08752 **BOUSQUET, WILLIAM F., Grad. Sch., Purdue Univ., Lafayette, Ind.**
liver; cell component..microsomes; enzymes; adrenal cortex hormones; adrenal glands; pituitary gland; drugs; barbital; phenobarbital; meprobamate; p--nitrobenzoic acid; morphine

AM-08753 **LEVY, GERHARD, Sch. Pharm., State Univ. New York, Buffalo, N.Y.**
drugs; membrane permeability and transport; solubility; gastrointestinal system; chemotherapy; therapy evaluation; lipids; stability constants; drugs vehicles

AM-08758 **DINGELL, JAMES V., Sch. Med., Vanderbilt Univ., Nashville, Tenn.**
drugs; hepatoxins; carbon tetrachloride; cell components..microsomes; enzymes; imipramine; chlorpromazine; barbital; binding; blood proteins.. serum proteins; lipoproteins

AM-08984 **HARRIS, JOHN B., San Francisco Gen. Hosp., San Francisco, Cal.**
imidazoles; stomach..gastric juice; stomach.. gastric juice inhibitors; secretory mechanisms; histamine; toxins; gastric pouch; nervous system.. central nervous system

AM-09218 **CARTER, EARL T., Mayo Assn., Rochester, Minn.**
salicylates; acetylsalicylic acid; longitudinal study; pulmonary ventilation; oxygen consumption; blood circulation dynamics; electrolytes; acid--base equilibrium; muscular diseases; bone disorders

AM-09237 **RUBIN, RONALD P., State Univ. New York, Downstate Med. Ctr., Brooklyn, N.Y.**
acetylcholine; membrane permeability and transport; adrenal medulla; calcium; alkaline earth metals; catecholamines; reserpine; tyramine; muscles..smooth muscle; muscle contraction

AM-09582 **LACK, LEON, Sch. Med., Duke Univ. Med. Ctr., Durham, N.C.**
bile acids and salts; cholesterol; intestinal absorption; liver; membrane permeability and transport

CA-02415 **BRENEMAN, WILLIAM R., Grad. Sch., Indiana Univ., Bloomington, Ind.**
medicinal plants..Lithospermum ruderale; antigonadotropic agents; thyrotropin inhibitors; bioassay; pituitary gland; radiolabeled iodine; gel diffusion technique; ultracentrifugation; chemical structure

CA-02924 **KIDDER, GEORGE W., Amherst Col., Amherst, Mass.**
antimetabolites; chemical structure--biological activity; folic acid; protozoa..Crithidia; protozoa..Tetrahymena; pteridines; pyridine; selenium; synthesis; triazines

CA-04084 **STONE, JOSEPH E., Sch. Med., Univ. Arkansas, Little Rock, Ark.**
antimetabolites; deoxyribonucleic acid; drugs; enzymes; liver; ribonucleic acid

CA-05003 **FITZPATRICK, THOMAS B., Massachusetts Gen. Hosp., Boston, Mass.**
ultraviolet rays; radiation effects; skin; melanin; phenol oxidases..tyrosinases; photosensitivity; psoralens; furocoumarins; photochemistry; photobiology

CA-07250 **FURST, ARTHUR, Col. Sci., Univ. San Francisco, San Francisco, Cal.**
antineoplastic agents; pseudo--hexoses; synthesis; stereoisomers; chemical structure--biological activity; D--glucose; growth factors; enzymes inhibitors; virus inhibitors

CA-07877 **SELVERSTONE, BERTRAM, New England Center Hosp., Boston, Mass.**
cancer chemotherapy; brain neoplasms; glioma; brain lesions; stereotaxia; antineoplastic agents; 8--azaguanine

CA-08010 **BERTINO, JOSEPH R., Sch. Med., Yale Univ., New Haven, Conn.**
folic acid antagonists; antineoplastic agents; methotrexate; therapy evaluation; drugs resistance; diagnostic tests; leukemia; oxidoreductases.. tetrahydrofolate dehydrogenase; enzyme substrate; enzyme inhibitors; binding; blood cells..leukocytes; membrane permeability and transport; ascites tumors; genetic strains; p--chloromercuribenzoate; arthritis..rheumatoid arthritis; tritium

DE-01345 **WAGNER, MARTIN J., College Dent., Baylor Univ., Dallas Texas**
fluorides; intestinal absorption; blood; urine; bone

EF-00481 **HAMMOND, PAUL B., Col. Vet. Med., Univ. Minnesota, Minneapolis, Minn.**
food contamination; milk; drugs; organic acids; organic bases; diffusion; proteins; binding

GM-01839 **WAY, E. LEONG, Univ. California, San Francisco, Cal.**
morphine; tritium; age; blood-brain barrier; meperidine; amino acid; diagnostic tests; drugs addiction; diacetylmorphine; anileridine

GM-03349 **DuBOIS, KENNETH P., Sch. Med., Univ. Chicago, Chicago, Ill.**
insecticides; organophosphorus compounds; parasympathomimetic agents; toxicology; enzymes; androgens; age; sex difference; enzymes inhibitors..anticholinesterase; chemical structure--biological activity; public health; detoxication

GM-04759 **BRODY, THEODORE M., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
hepatotoxins; carbon tetrachloride; liver damage; enzymes; pyridine nucleotides; nervous system.. sympathetic nervous system; adrenal glands; toxicology; catecholamines; ganglionic blocking agents; sympatholytic agents; lipids; triglycerides

GM-05514 **FUJIMOTO, JAMES M., Sch. Med., Tulane Univ., New Orleans, La.**
antineoplastic agents; barbiturates; carbamic acid; drugs interaction (synergism); enzymes; liver; proteins; urethan

GM-05640 **BEAL, JACK L., Col. Pharm., Ohio State Univ., Columbus, Ohio**
alkaloids; antihypertensive agents; antineoplastic agents; cardioactive agents; chemical structure; medicinal plants; tranquilizers

GM-06034 **FOUTS, JAMES R., Sch. Med., State Univ. Iowa, Iowa City, Iowa**
liver; cell components; microsomes; enzymes; drugs; infant animals..newborn; starvation; hepatectomy; phenobarbital; maternal-fetal; insecticides

GM-06232 **BONNER, WILLIAM A., Grad. Sch., Stanford Univ., Stanford, Cal.**
chemical structure; medicinal plants..Eupatorium urticaefolium; synthesis; toxicology; toxins; tremetol

GM-06568 **HILL, RICHARD K., Grad. Sch., Princeton Univ., Princeton, N.J.**
alkaloids; lycorine; synthesis; molecular structure; pilocarpine; carpaine; stereochemistry

GM-06643 **DUSENBERRY, JAMES E., Sch. Pharm., Univ. Arkansas, Little Rock, Ark.**
ergot alkaloids; fungi..Paspalum dilitatum ergot; geographical sites; toxicology

GM-07515 **BENEDICT, ROBERT G., Col. Pharm., Univ. Washington, Seattle, Wash.**
toxins; fungi; taxonomy; microbial culture

GM-08447 **SCHMIDT, GILBERT C., Col. Phar., Univ. Cincinnati, Cincinnati, Ohio**
alkaloids; blood..serum; carboxylic ester hydrolases.. atropinesterase; carboxylic ester hydrolases.. azolesterases; detoxication; drugs tolerance; poisoning

GM-08508 **AUDITORE, JOSEPH V., Meharry Med. Col., Nashville, Tenn.**
blood cells..thrombocytes; brain; calcium; cardiac glycosides; heart..myocardium; magnesium; ouabain; phosphatases..adenosine triphosphatase; potassium; sodium

GM-09053 **FIGUEROA, WILLIAM G., Sch. Med., Univ. California, Los Angeles, Cal.**
blood..serum; bone marrow; chelating agents; gold; iron; iron storage diseases; radioisotopes; radiolabeled iron

GM-09389 **GALE, GLEN R., VA Hosp., Durham, N.C.**
amino acid; blood pressure; electroencephalography; hydroxamic acid; pesticides and germicides..bactericides; pesticides and germicides..fungicides; respiration; synthesis; toxicology

GM-09784 **SPRATT, JAMES I., Sch. Med., State Univ. Iowa, Iowa City, Iowa**
cardiac glycosides; cholesterol; digitoxin; digoxin; heart failure..congestive heart failure; infants, animals.. newborn; ion exchange resins; kidney disorders; liver cirrhosis; tritium

GM-09863 **SUNSHINE, IRVING, Cuyahoga County Coroner's Lab., Cleveland, Ohio**
nervous system..central nervous system; instrumentation--methodology; toxicology; meprobamate; glutarimide; phenothiazine; antihistamines; barbiturates; tissue; forensic medicine

GM-09864 **GARRETT, EDWARD R., Col. Pharm., Univ. Florida, Gainesville, Fla.**
drugs; intestinal absorption; chemical structure--biological activity; nitrosamides; solvolysis; nucleosides; antibiotics, cycloheximide

GM-10042 **ELLIOTT, THOMAS H., Faculty Med., Univ. Singapore, Singapore, Malaysia**
conformations (chemistry); t-butyl cyclohexanones; tritium; NADP; cell components..microsomes; stereochemistry; oxidation-reduction; bicyclo (r,r,0) decanes; tetralones; oxidoreductases..lactate dehydrogenase; oxidoreductases..alcohol dehydrogenases

GM-10043 **SPENSER, IAN D., Grad. Sch., McMaster Univ., Hamilton, Ontario, Canada**
alkaloids; berberine; medicinal plants; stable isotope labeled nitrogen; radiolabeled carbon; mimosine

GM-10079 SCHWARTING, ARTHUR E., Sch. Pharm., Univ. Connecticut, Storrs, Conn.
medicinal plants; medicinal plants..Solanaceae; Lythraceae alkaloids; screening; chemical structure--biological activity

GM-10122 FESSENDEN, RALPH J., San Jose State Col., San Jose, Cal.
synthesis; chemical structure--biological activity; stereochemistry; organosilicon compounds; phenylethylamines; amphetamine; vasoactive agents..vasopressors; silicon; meprobamate

GM-10164 LaPIDUS, JULES B., Col. Pharm., Ohio State Univ., Columbus, Ohio
conformations (chemistry); synthesis; chemical structure--biological activity; drugs; antihistamines; anesthetics; parasympathomimetic agents; parasympatholytic agents; sympathomimetic agents; screening; stereoisomers; drugs receptors

GM-10313 GREENE, JACK P., Sch. Med., Yale Univ., New Haven, Conn.
mast cells; nervous system; binding; histamine; serotonin; dopamine; norepinephrine; acetylcholine; cell components; drugs; amines; quantum mechanics

GM-10404 BULBRING, EDITH, Sch. Med., Univ. Oxford, Oxford, England
carbohydrates; catecholamines; cell components..cell membrane; epinephrine; histamine; ion exchange; membrane permeability; muscle..smooth muscle; muscle contraction; potentials..membrane potentials; serotonin

GM-10578 GRIFFITH, THOMAS, Sch. Arts, Sci., Northern Michigan Col., Marquette, Mich.
piperidines; lysine; anabasine; radiolabeled carbon; radiolabeled carbon; tobacco; carboxylic acids

GM-10913 MANNERING, GILBERT J., Col. Med., Sci., Univ. Minnesota, Minneapolis, Minn.
bioassay; documentation systems; drugs; forensic medicine; gas chromatography; heavy metals; hypnotics and sedatives; infrared spectrometry; instrumentation--methodology; solvents fractionation; toxicology

GM-10930 MANNERING, GILBERT J., Col. Med., Sci., Univ. Minnesota, Minneapolis, Minn.
methanol; 3--amino--1,2,4--triazole; alcohols; oxidation; ethanol; hydrogen peroxide; catalase; blood cells..erythrocytes; ethylene glycol

GM-10963 SCIUCHETTI, LEO A., Sch. Pharm., Oregon State Univ., Corvallis, Ore.
medicinal plants; fractionation; chemical structure--biological activity; chemical structure; toxicology; ethnic groups..American Indians; geographical sites..Oregon

GM-11206 McCRONE, JOHN D., Florida Presbyterian Col., St. Petersburg, Fla.
venoms; toxicology; species; immunological tests; antivenins; spiders; light scattering

GM-11245 RANSTAD, EGIL, Sch. Phar., Purdue Univ., Lafayette, Ind.
ergot alkaloids; enzymes; fungi..Claviceps purpurea; microbial culture; enzymes substrate; tryptophan; mevalonic acid; chemical structure; cell-free systems; stereoisomers

GM-11372 BHATIA, VISHNU N., Col. Pharm., Washington State Univ., Pullman, Wash.
biomathematics; chemical structure--biological activity; drugs; intestinal absorption; reaction rates (chemistry); solubility

GM-11373 WINEFORDNER, JAMES D., Sch. Arts, Sci., Univ. Florida, Gainesville, Fla.
blood; body fluids; drugs; instrumentation-methodology; solvents; spectrophosphorimetry

GM-11374 BURKHALTER, ALAN, Univ. California Med. Cr., San Francisco, Cal.
acetylcholine; cell differentiation; choline esterases.. acetylcholinesterase; decarboxylases..histidine decarboxylase; decarboxylases..5-hydroxytryptophan decarboxylase; diaphragm; enzymes; fetus; histamine; intestines; neuromuscular junction; oxidoreductases..monoamine oxidase; spinal cord; tissue culture

GM-11375 JIMENEZ-PORRAS, JESUS M., Sch. Med., Univ. Costa Rica, San Pedro, Costa Rica, C.A.
venoms; phylogeny; geographical sites..Costa Rica; toxicology; proteins; enzymes; chemical structure--biological activity; blood coagulation

GM-11598 GOSSELIN, ROBERT E., Dartmouth Med. Sch., Hanover, N.H.
membrane permeability and transport; epithelium; drugs; diffusion; histamine; 5--hydroxytryptamine; acetylcholine; catecholamines; vasopressin

GM-11600 ROSENBLUM, IRA, Albany Med. Col., Albany, N.Y.
drugs; tissue; intestines; gastrointestinal disorders; ganglionic blocking agents, nonspecific; muscle relaxants; parasympatholytic agents; antacids; uterus neoplasms; leiomyoma; epinephrine; heart..myocardium; phosphorylases; congenital heart disease; rheumatic heart diseases

GM-11699 SCHWEDA, PAUL, 700 Fleet St., Baltimore, Md.
forensic medicine; drugs; toxicology; autopsy

GM-11801 PLAXCO, JAMES M., Sch. Pharm., Univ. South Carolina, Columbia, S.C.
bioassay; chemical structure; diffusion dialysis; drugs; drugs vehicles; theophylline

GM-11961 PROCITA, LEONARD, Albany Med. Col., Albany, N.Y.
muscle proteins; muscle contraction; muscle..skeletal muscle; ryancdine; actomyosin; chemical structure; adenosine triphosphate; viscosimetry; muscular dystrophy

GM-11991 WILLIAMS, MARTIN W., Col. Pharm., Univ. Arizona, Tucson, Ariz.
venoms; toxicology; bioassay; chemical structure--biological activity

GM-12379 LAPIDUS, JULES B., Col. Pharm., Ohio State Univ., Columbus, Ohio
synthesis; alkyl substitution; cyclic compounds; chemical structure--biological activity; drugs; acetylcholine; procaine hydrochloride; oxyphenonium bromide; diphenhydramine

GM-12543 MANNERING, GILBERT J., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
drugs; drugs interaction; cell components..microsomes; enzyme substrate; steroid hormones; proteins; morphine; morphine analogs; barbital..dihydrocodeinone; acetophenetidine; 2--diethylaminoethyl--2,2--diphenyl valerate; chlorpromazine; N--demethylation; thioacetamide; zoxazolamine; phenylbutazone; acetanilid; phenobarbital; 3,4--benzpyrene

GM-12876 GENNARO, JOSEPH F., Jr., Sch. Med., Univ. Louisville, Louisville, Ky.
radiolabeled iodine; venoms; antivenins; hypothermia; tourniquets; adrenal cortex hormones; antihistamines; therapy; enzymes

GM-13016 LEVINE, ROBERT J., Sch. Med., Yale Univ., New Haven, Conn.
histamine; body composition; enzymes; cell components; reserpine; pilocarpine; narcotics; parasympathomimetic agents; sympatholytic agents

GM-13029 ANDERSEN, NIKAAN B., Col. Med., Univ. Florida, Gainesville, Fla.
anesthetics; membrane permeability and transport; sodium; potassium

HD-00100 TROUTMAN, EDWIN G., Fort Worth Med. Cr., Harris Hosp., Fort Worth, Tex.
iontophoresis; sweat; electrolytes; pilocarpine; pancreatic cystic fibrosis; pulmonary emphysema; diagnostic tests

HD-00121 ZEPPA, ROBERT, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
mammary gland; mastitis; histamine; estrogens; promethazine; therapy evaluation; decarboxylases.. histidine decarboxylase; endothelium permeability

HD-00201 BACHMAN, LEONARD, Children's Hosp., Philadelphia, Pa.
anesthetics; hypothermia; thiopental sodium; respiration; hypnotics and sedatives; narcotics; belladonna alkaloids; phenothiazine; carbon dioxide tension; oxygen tension; children

HD-00218 MOSHER, HARRY S., Grad. Sch., Stanford Univ., Stanford, Cal.
neurotoxins; chemical structure

HD-00237 BOEHM, JOHN J., Univ. Kentucky Med. Cr., Lexington, Ky.
infants human..newborn; infants human..premature infants; epinephrine; norepinephrine; hyaline membrane disease pulmonary; blood pressure; hypertension systemic; metabolites

HD-00578 SUTHERLAND, JAMES M., Children's Hosp. Fdn., Cincinnati, Ohio
antibiotics; chemotherapy; infant human..newborn; intestinal absorption; dosage; blood; urine; toxicology; streptomycin

HD-00615 DONE, ALAN K., Sch. Med., Univ. Utah, Salt Lake City, Utah
infant animals..newborn; infant human..newborn; drugs; detoxication; bioassay; criteria; toxicology; kernicterus; bilirubin

HD-00714 SLAGER, LLOYD D., Univ. Arkansas Med. Cr., Little Rock, Ark.
tranquilizers; chemotherapy; family..parents; maternal--fetal; pregnancy; infant animals; growth; behavior; longitudinal study; sex difference; chlorpromazine; thioridazine; prolixin; reserpine; chlorodiazepoxide; meprobamate

HD-01001 GRAHAM, HELEN T., Sch. Med., Washington Univ., St. Louis, Mo.
histamine; pregnancy; mast cells; body fluids; stomach; liver; sulfates; oxidases..diamine oxidase

HD-01073 NYHAN, WILLIAM L., Dept. Pediatrics Med. Research Bldg., Miami, Fla.
thalidomide; teratogenic agents; solubility; drugs vehicles; metabolites; species; embryology; radiolabeled carbon; tissue; antineoplastic agents; tissue respiration; proteins; nucleic acids

HD-01083 DRACHMAN, DANIEL B., New England Cr. Hosp., Boston, Mass.
nerves..motor neurons; muscles..skeletal muscle; spinal cord..ventral column; neuromuscular transmission; histogenesis; acetylcholine; cholinergic receptors; choline esterase; neuromuscular blocking agents; d--tubocurarine; succinyl choline; decamethonium compounds; botulinus toxin; hemicholinium

HD-01219 YAFFE, SUMNER J., Children's Hosp., Buffalo, N.Y.
conjugates; glucuronic acid; sex difference; sex hormones; age; transferases..glucuronyl transferase; cell components.. microsomes; aglycones; acetylation; sulfation; glycine; hormones

(contd)

LISTING OF GENERAL RESEARCH AREAS

PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS (CONTD)

HD-01335 **BOSOMWORTH, PETER P., Univ. Kentucky Med. Cr., Lexington, Ky.**
anesthetics: uterus..myometrium contraction; pregnancy..childbirth; pregnancy..amniotic fluid; hemorrhage; 2,2--dichloro--1,1--difluoroethyl methyl ether; bromochlorotrifluoroethane; cyclopropane; ethers..vinyl ether; succinyl choline; oxytocic agents

HD-01340 **CUTTING, WINDSOR C., Pacific Biomed. Res. Ctr., Univ. Hawaii, Honolulu, Hawaii**
chlorguanide; biguanides; antigonadotropic agents; antifertility factors; sex difference

HD-01519 **KLEIN, ROBERT, Boston City Hosp., Boston, Mass.**
antibiotics..chloramphenicol; toxicology; therapy evaluation; phenylalanine; drugs interaction; alanine; lysine; methionine; glycine; children; infant human..newborn; blood cells..erythrocytes

HD-01520 **O'STEEN, W. KEITH, Univ. Texas Med. Br., Galveston, Tex.**
amines; serotonin; 5--hydroxytryptophan; histamine; reproductive system, female; cyclic functions; age; endocrine glands; brain..hypothalamus; gonadotropins; reserpine; hydrazinophthalazine; enzyme inhibitors.. monoamine oxidase inhibitors

HD-01521 **LIMBECK, GEORGE A., Sch. Med., Univ. Washington, Seattle, Wash.**
children; salicylates; blood proteins..serum proteins; binding; age; salicylism; rheumatic diseases; therapy evaluation; 17--hydroxycorticosteroids

HD-01601 **KELLEY, VINCENT C., Sch. Med., Univ. Washington, Seattle, Wash.**
salicylates; benzoic acids; chemical structure--biological activity; growth inhibitors; children; infant animals; drugs interaction; diethylstilbestrol; steroids; thyroxine; metyrapone; ephedrine

HD-01816 **McPHILLIPS, JOSEPH J., Med. Col. Virginia, Richmond, Va.**
enzyme inhibitors..anticholinesterase; acetylcholine; toxicology; atropine; organophosphorus compounds; drugs tolerance

HE-00720 **FREIS, EDWARD D., Sch. Med., Georgetown Univ. Hosp., Washington, D.C.**
blood circulation dynamics; chemotherapy; hypertension (systemic); heart function; antihypertensive agents; heart intracardiac volume; heart failure

HE-01045 **COHEN, GERALD, Col. Phys., Surg., Columbia Univ., N.Y.C.**
catecholamines; dehydrogenases..glucose-6-phosphate dehydrogenase; glycolysis; hemolysis; hydrogen peroxide; melanoma; peroxidases..glutathione peroxidase; stress

HE-01165 **ROBERTS, JAY, Med. Col., Cornell Univ., New York, N.Y.**
heart rhythm; catecholamines; sympathomimetic agents; depressants; arrhythmia, cardiac; nervous system.. vagus nerve; heart conduction system..heart pacemakers; cardioactive agents..arrhythmic agents

HE-01422 **OLSON, ROBERT E., Grad. Sch., Univ. Pittsburgh, Pittsburgh, Pa.**
binding; cardiac glycosides; digitalis; heart failure; myosin; proteins; tritium

HE-01506 **ACHESON, GEORGE H., Col. Med., Univ. Cincinnati, Cincinnati, Ohio**
ion..cations; ion exchange and transport; heart; potassium; drugs; heart contraction; chemical structure--biological activity

HE-01846 **RICHARDSON, JAMES A., Med. Col. South Carolina, Charleston, S.C.**
angiotensin; blood..plasma; cardioactive agents; cardiovascular system; catecholamines; coronary thrombosis; heart contraction; pituitary hormones

HE-01999 **BERMAN, DAVID A., Sch. Med., Univ. So. California, Los Angeles, Cal.**
fluoroacetates; dehydroacetates; tissue respiration; radiolabeled carbon; electrostimulus; heart.. myocardium; cardioactive agents; heart contraction

HE-02205 **KRAYER, OTTO, Sch. Med., Harvard Univ., Boston, Mass.**
adrenal glands; blood circulation dynamics; catecholamines; guanethidine; heart..myocardium; heart conduction system..heart pacemakers; heart contraction; heart function; heart rate; hemorrhagic shock; muscle; norepinephrine; ouabain; reserpine; temperature; Veratrum alkaloids

HE-02208 **ZOLL, PAUL M., Beth Israel Hosp., Boston, Mass.**
heart block..Stokes-Adams disease; electronic heart stimulators; catecholamines; hyperuricemia

HE-02466 **SWAIN, HENRY H., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
arrhythmia (cardiac)..atrial fibrillation; arrhythmia.. ventricular fibrillation; cardioactive agents; electrostimulus; heart; heart conduction system..Purkinje fibers; heart rhythm

HE-02835 **FARAH, ALFRED E., Res. Fdn. Univ. New York, Syracuse, N.Y.**
p-aminohippurate; kidney function; radiolabeled carbon; ion exchange and transport; N-methylnicotinamide

HE-02875 **LEE, KWANG, S., Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.**
calcium; cardiac glycosides; electrolytes; high energy compounds; muscle contraction; ouabain; oxygen consumption; phosphates; potassium; toxicology

HE-02953 **MORAN, NEIL C., Sch. Basic Hlth., Sci., Emory Univ., Atlanta, Ga.**
cardiac glycosides; cardiovascular system; digitalis; heart..myocardium; nervous system..sympathetic nervous system; phosphorylases..glycogen phosphorylase; symoatholytic agents; sympathomimetic agents; thyroid gland

HE-03475 **BUCKLEY, JOSEPH P., Sch. Phar., Univ. Pittsburgh, Pittsburgh, Pa.**
antihypertensive agents; autonomic agents; electrodes; extracorporeal circulation..cross circulation; eyelids.. nictitating membrane; nervous system..central nervous system; vasoactive agents..vasopressors

HE-03514 **AHLQUIST, RAYMOND P., Med. Col. Georgia, Augusta, Ga.**
adrenergic receptors; symoatholytic agents; sympathomimetic agents

HE-03673 **BEAL, JACK L., Col. Pharm., Ohio State Univ., Columbus, Ohio**
cardioactive agents; chemical structure; glycosides; medicinal plants..Ornithogalum umbellatum

HE-03724 **BELFORD, JULIUS, Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.**
heart..myocardium; heart contraction; heart function; hexose-6-phosphates; phosphorylases; pyridoxal phosphate

HE-03738 **BLINKS, JOHN R., Harvard Med. Sch., Boston, Mass.**
heart..myocardium; heart contraction; potentials..membrane potentials; cardiac glycosides; sympathomimetic agents

HE-03829 **SCOTT, JOSEPH L., Col. Arts, Sci., Univ. Connecticut, Storrs, Conn.**
iproniazid; radiolabeled carbon; epinephrine; phylogeny; oxidoreductases..monoamine oxidase

HE-03843 **HUITRIC, ALAIN C., Col. Pharm., Univ. Washington, Seattle, Wash.**
synthesis; stereochemistry; cardioactive agents..antiarrhythmic agents; cardioactive agents..arrhythmic agents; 2--(o--tolyl)--cyclohexanol; 2--arylcyclohexanols; cyclohexylamines

HE-04015 **WEINER, IRWIN M., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
benzoic acids; electrolytes; ion exchange; kidney function; lipids; solubility; uricosuric agents

HE-04449 **MARSH, WALTON H., Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.**
angiotensin; free radicals; chemical structure; phenylalanine; photosensitivity; polymerization

HE-04626 **MAYER, STEVEN E., Emory Univ., Atlanta, Ga.**
carbohydrates; catecholamines; dichloroisoproterenol; enzymes; epinephrine; glucose; heart contraction; nervous system..sympathetic nervous system; phosphorylases..glycogen phosphorylase; symoatholytic agents

HE-04713 **MARCUS, FRANK I., D.C. General Hosp., Washington, D.C.**
liver damage; cardiac glycosides; digoxin; heart failure; liver cirrhosis; renal failure; ouabain

HE-04873 **WALASZEK, EDWARD J., Univ. Kansas Med. Ctr., Kansas City, Kans.**
vasoactive agents..vasopressors; polypeptides; substance A, polypeptide; enzymes; blood proteins; carbohydrases..α--amylase; morphine; drugs interaction

HE-04923 **PATTERSON, ROBERT A., Arizona State Univ., Tempe, Ariz.**
venoms; scorpions; reptiles; cytotoxicity

HE-04983 **ALEXANDER, CARL S., Veterans Admin. Hosp., Minneapolis, Minn.**
6-dimethylamino-9-(3'amino-3'-deoxy-b-D-ribofuranosyl)-purine; puromycin; radiolabeled carbon; nephrotic syndrome; metabolites; neohrosis

HE-05237 **FURCHGOTT, ROBERT F., Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.**
cocaine; phenoxybenzamine; catecholamines; norepinephrine; sympathomimetic agents; adrenergic receptors; radiolabeled carbon; tritium; darenthin; monoamine oxidase inhibitors

HE-05240 **HUTCHEON, DUNCAN E., New Jersey Col. Med., Dent., Jersey City, N.J.**
benzothiadiazine; heart failure..congestive heart failure; hypertension (systemic); kidney function; chlorothiazide; carbohydrates; hyperglycemia; diabetes

HE-05264 **LEE, WOO C., Sch. Med., Yonsei Univ., Seoul, Korea**
catecholamines; heart..atrium; phenylethylamines; reserpine; hypotension; blood transfusion..autotransfusion; heart..myocardium; norepinephrine; hemorrhage; therapy

HE-05290 **CAREW, DAVID P., Col. Pharm., State Univ. Iowa, Iowa City, Iowa**
culture media; medicinal plants..Apocynaceae; antihypertensive agents; alkaloids; antineoplastic agents

HE-05291 **SWAINE, CHARLES R., Women's Med. Col., Philadelphia, Pa.**
cardiovascular system; symoatholytic agents; catecholamines; symoathomimetic agents

HE-05360 **GOULD, R. GORDON, Sch. Med., Stanford Univ., Palo Alto, Cal.**
cholesterol; mevalonic acid; radiolabeled carbon; adrenal glands; cholesterol inhibitors; triglycerides; liver; lipids

HE-05477 EICHBAUM, FRANCISCO W., Sch. Med., Univ. de Sao Paulo, Brazil
adrenal glands disorders; arteries..aorta; autonomic agents; blood pressure; cardioactive agents; cerebrospinal fluid; diphtheria; diphtheria toxin; epinephrine; heart; heart diseases; histamine; injury..head injury; intestines..ileum; kidney disorders; kidney necrosis; myocardial necrosis (noninfarctional); nephrotoxins; pupillary reflex

HE-05512 ABAJIAN, JOHN, Jr., Mary Fletcher Hosp., Burlington, Vt.
cardiovascular system; bromochlorotrifluoroethane; anesthesia; hypotension; heart rate; heart function; surgery; sleep

HE-05612 BRIGGS, ARTHUR H., Univ. Mississippi Med. Cr., Jackson, Miss.
arteries..aorta; calcium; hypertension (systemic); membrane permeability; muscle..smooth muscle; muscle contraction; ouabain

HE-05664 McGEER, PATRICK L., Univ. British Columbia, Vancouver, British Columbia, Canada
urine; aromatic compounds; aminoimidazole carboxamides; vitamin B12; folic acid; synthesis

HE-05670 THIENES, CLINTON H., Huntington Mem. Hosp., Pasadena, Cal.
adrenal glands; brain; dihydroxyphenylethylamine; DOPA; epinephrine; nicotine; norepinephrine

HE-05801 TAMAGNA, IRENE G., Sch. Med., George Washington Univ. Hosp., Washington, D.C.
antihypertensive agents; enzymes inhibitors..decarboxylases inhibitors; hypertension (systemic); enzymes inhibitors..monoamine oxidase inhibitors; blood pressure; therapy

HE-05806 LUCCHESI, BENEDICT R., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
cardioactive agents..antiarrhythmic agents; heart rhythm; chemical structure--biological activity; substitution reactions (chemistry); phenylalkylamines; perfusion; heart..myocardium; potentials..action potentials; catecholamines; drugs receptors; ganglionic blocking agents; digitalis; aconitine; acetylstrophanthidin

HE-05886 FOSTER, JOHN H., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
toxicology; contrast media; nervous system; kidney; cardiovascular system

HE-06072 SEKUL, ANTONIO A., Sch. Med., Univ. Mississippi, Jackson, Miss.
antihypertensive agents; choline esters; nicotine; therapy; unsaturated fatty acids

HE-06388 KAHN, JULIUS B., Jr., Sch. Med., Northwestern Univ., Chicago, Ill.
blood cells..erythrocytes; calcium; heart contraction; ion..cations; ion exchange; potassium; rubidium

HE-06491 GOLDBERG, LEON I., Sch. Med., Emory Univ., Atlanta, Ga.
enzyme inhibitors..monoamine oxidase inhibitors; enzyme inhibitors..decarboxylases inhibitors; cardiovascular system; exercise; angina pectoris; sympathomimetic agents; heart failure..congestive heart failure; heart function; antihypertensive agents; dopamine; kidney..glomerular filtration; blood vessels vasomotion

HE-06493 KAHN, MELVIN, Mount Sinai Hosp., N.Y.C.
chlorothiazide; diuretics; kidney..renal tubules; kidney function; membrane permeability; potassium; sodium chloride; spironolactones

HE-06571 KAPADIA, GOVIND J., Col. Pharm., Howard Univ., Washington, D.C.
cardioactive agents..cardiotonic drugs; medicinal plants..Acocanthera spectabilis

HE-06730 BEVAN, JOHN A., Univ. California, Los Angeles, Cal.
lobeline sulfate; nerve endings; pressoreceptors; arteries..pulmonary artery; thorax; mechanoreceptors

HE-06762 COPPER, THEODORE, Sch. Med., St. Louis Univ., St. Louis, Mo.
cardioactive agents; heart; heart function; nerves; nerves denervation; regeneration; sympathomimetic agents

HE-06820 COTTEN, MARION de V., Univ. Oklahoma Med. Cr., Okla. City, Okla.
cardiovascular system; temperature; cardioactive agents; norepinephrine; hypothermia; blood circulation dynamics; electrolytes; actomyosin

HE-06920 LITTLE, J. MAXWELL, Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.
diuretics; kidney function; proteins; urine; water-electrolyte balance

HE-06944 GOLDRING, DAVID, St. Louis Childrens Hosp., St. Louis, Mo.
tritium; digoxin; extracorporeal circulation..heart--lung bypass; heart failure..congestive heart failure; tissue; urine; oxygen consumption; scintillation counters; metabolites

HE-07025 HERTTING, GEORG, Univ. Vienna, Vienna, Austria
nervous system..autonomic nervous system; catecholamines; binding; tritium; drugs

HE-07051 MARKS, BERNARD H., Col. Med., Ohio State Univ., Columbus, Ohio
tritium; cardiac glycosides; heart conduction system; heart contraction; cell components; binding; cell components..cell membrane; muscle..myofibrils; ouabain; lanatoside C; digoxin; digitoxin

HE-07125 LAGUNA, JOSE, Sch. Med., National Univ. Mexico, Mexico, D.F., Mexico
atherosclerosis; cholesterol; diosgenin; intestinal absorption; synthesis

HE-07150 DAVIS, RICHARD B., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
endotoxins; serotonin; blood cells..thrombocytes; histamine; amine; immunity; enzymes

HE-07151 YARD, ALBERT C., Sch. Med., Marquette Univ., Milwaukee, Wis.
norepinephrine; isoproterenol; shock; sympatholytic agents; phenoxybenzamine; vasoactive agents..vasopressors; blood circulation dynamics; heart function; respiration

HE-07249 GILLIS, CHARLES N., Sch. Med., Yale Univ., New Haven, Conn.
blood vessels vasomotion; catecholamines; epinephrine; serotonin; cardiovascular system; reserpine; cocaine; enzymes inhibitors..monoamine oxidase inhibitors; catecholamines inhibitors; tritium; norepinephrine

HE-07321 WEST, THEODORE C., Sch. Med., Univ. Washington, Seattle, Wash.
neurohormones; heart; heart conduction system..sinoatrial node; electrostimulus; heart rhythm; cardioactive agents

HE-07392 GAFFNEY, THOMAS E., Sch. Med., Univ. Cincinnati, Cincinnati, Ohio
cardiovascular system; reserpine; guanethidine; nervous system..sympathetic nerves; nervous system..parasympathetic nervous system; norepinephrine; thyroid hormones; adrenal cortex hormones

HE-07408 MOORE, JOANNE I., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
drugs tachyphylaxis; sympathomimetic agents; catecholamines; cardiovascular system; tissue; muscle..smooth muscle; amphetamine; ephedrine; tyramine

HE-07466 FREGLY, MELVIN J., Sch. Pharm., Univ. Florida, Gainesville, Fla.
antihypertensive agents; antithyroid compounds; chemistry; depressants; heavy metals; renal hypertension; sulfur compounds; synthesis; toxicology

HE-07467 ANDERSEN, NIKAAN B., Sch. Med., Univ. Florida, Gainesville, Fla.
anesthesia; sodium; potassium; blood cells..erythrocytes; cell components..cell membrane; flame photometry; radiolabeled potassium; radiolabeled sodium

HE-07515 POLANSKY, BURTON J., Boston City Hosp., Boston, Mass.
digitalis; potassium; heart; heart conduction system..atrioventricular node; electrocardiography

HE-07554 LUM, BERT K.B., Sch. Med., Marquette Univ., Milwaukee, Wis.
ephedrine; amphetamine; cardiovascular system; reflex; drugs interaction

HE-07564 CALVERT, DEANE N., Sch. Med., Marquette Univ., Milwaukee, Wis.
blood..plasma; cardiovascular system; catecholamines; epinephrine; hemorrhagic shock; norepinephrine; sympathomimetic agents

HE-07567 SEAGER, LLOYD D., Univ., Arkansas Med. Cr., Little Rock, Ark.
pulmonary edema; aconitine; brain lesions; brain..hypothalamus; sympatholytic agents; cardiovascular system; therapy

HE-07646 RUSY, BEN F., Temple Univ. Med. Cr., Philadelphia, Pa.
norepinephrine; heart function; anesthesia; reserpine

HE-07647 TAYLOR, W. RUSSELL, Sch. Med., Univ. Toronto, Toronto, Canada
pulmonary ischemia and hypoxia; lung disease; nikethamide; vanillic acid diethylamide; therapy evaluation; hypercapnia; stimulants; acetazolamide; dichlorphenamide

HE-07674 GINSKI, JOHN M., Col. Med., Univ. Tennessee, Memphis, Tenn.
heart failure; heart..myocardium; calcium; magnesium; sodium; potassium; chlorides; heart contraction; perfusion; anesthetics; diuretics; electrolytes; cardioactive agents..cardiotonic drugs; antihypertensive agents

HE-07678 SHEPARD, ROBERT S., Col. Med., Wayne State Univ., Detroit, Mich.
heart function; blood flow; heart size; blood pressure; heart conduction system; cardiovascular system; nervous system..cardiac nerves; exercise; heart diseases; drugs; sympathomimetic agents; parasympatholytic agents; ganglionic blocking agents; antihypertensive agents; lidocaine

HE-07714 CHEN, K.K., Sch. Med., Indiana Univ., Indianapolis, Ind.
cardioactive agents; chemical structure--biological activity; glycosides

HE-07718 PARADISE, RAYMOND R., Sch. Med., Indiana Univ., Indianapolis, Ind.
anesthetics; heart contraction; heart function; heart rate; ion exchange; potentials..membrane potentials; radiolabeled

HE-07720 LINDE, LEONARD M., Univ. California Med. Cr., Los Angeles, Cal.
digitalis; pulmonary circulation; blood flow; heart failure, congestive heart failure; blood vessels shunts

HE-07726 LOWENSTEIN, JEROLD M., Presbyterian Med. Cr., San Francisco, Cal.
digitalis; blood cells..erythrocytes; radioisotopes..rubidium 86; bioassay

HE-07747 GOMOLL, ALLEN W., Col. Med., Univ. Illinois, Chicago, Ill.
digitalis; adrenal cortex hormones; ACTH; secretory mechanisms

(contd)

PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS (CONTD)

HE-07757 EICH, ROBERT H., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
blood circulation dynamics; cardiovascular diseases; catecholamines; heart..myocardium; heart function; metabolites

HE-07787 CONRAD, LOYAL L., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
digoxin; calcium; heart..myocardium; radiolabeled calcium; tritium; norepinephrine; heart failure..congestive heart failure; reaction sites

HE-07788 LAVER, MYRON B., Massachusetts Gen. Hosp., Boston, Mass.
arrhythmia, cardiac; blood circulation dynamics; bromochlorotrifluoroethane; heart conduction system..atrioventricular node; hypotension; nervous system..autonomic nervous system

HE-07885 GLASSMAN, EPHRAIM, Long Island Jewish Hosp., New Hyde Park, N.Y.
blood circulation dynamics; morphine; pulmonary circulation; pulmonary edema; therapy evaluation

HE-07906 SCHWARTZ, ARNOLD, Col. Med., Baylor Univ., Houston, Texas
cardiac glycosides; heart..myocardium; heart enlargement; heart failure; ion exchange; phosphatases..adenosine triphosphatase; phosphoproteins

HE-07914 SHIDEMAN, FREDERICK E., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
adrenal cortex hormones; diuretics; glycogenolysis; natriuresis; triazines; water-electrolyte balance

HE-07939 SHIDEMAN, FREDERICK E., Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
ganglion, nervous system..paraganglia; sympathomimetic agents; nerves..innervation; catecholamines; heart; cardioactive agents; norepinephrine; heart..papillary muscle; amine

HE-08046 NASH, CLINTON B., Sch. Basic Med. Sci., Univ. Tennessee, Memphis, Tenn.
arrhythmia, cardiac..ventricular fibrillation; digitalis; reserpine; digoxin; ouabain; catecholamines; enzyme inhibitors..monoamine oxidase inhibitors; ion exchange and transport; sodium; potassium; chemical structure--biological activity; heart..myocardium; heart rate

HE-08049 INCHIOSA, MARIO A., Jr., Beth Israel Hosp., Boston, Mass.
epinephrine; muscle relaxants; muscle, smooth muscle; muscle contraction; muscle stretch receptors; chemical structure--biological activity; enzymes inhibitors..phosphatase inhibitors; synthesis; metabolites; oxidation; actomyosin; phosphatases..adenosine triphosphatase

HE-08057 NAKANO, JIRO, Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
oxytocin; cardiovascular system; heart..myocardium; blood circulation dynamics; heart function; heart rate; heart contraction; peripheral vascular system; polypeptides; oxygen

HE-08058 O'REILLY, ROBERT A., Santa Clara County Hosp., San Jose, Cal.
blood coagulation..anticoagulants; coumarins; dosage; chemotherapy; kidney disorders; liver diseases; gastrointestinal disorders

HE-08059 McLAIN, PAUL L., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
cardiac glycosides; nervous system, cardiac nerves; heart contraction; arrhythmia (cardiac); blood vessels; respiration; potentials, action potentials

HE-08083 WELLER, JOHN M., Univ. Michigan Hosp., Ann Arbor, Mich.
arteries..aorta; carbohydrates; catecholamines; glucose tolerance; hypertension (systemic); nephrectomy; norepinephrine; therapy evaluation; thiazines

HE-08144 BOOKER, WALTER M., Col. Med., Howard Univ., Washington, D.C.
heart; norepinephrine; catecholamines; metabolites; oxidoreductases..amine oxidase; enzymes inhibitors, amine oxidase inhibitors; heart function

HE-08311 HARDMAN, HAROLD F., Sch. Med., Marquette Univ., Milwaukee, Wis.
arteries..coronary arteries; cardioactive agents; coronary diseases; dioxyline phosphate; electrodes..oxygen microelectrode; erythrityl tetranitrate; heart..myocardium; instrumentation-methodology; myocardial ischemia and hypoxia; nitroglycerin; oxygen consumption; oxygen tension; theophylline; therapy evaluation; vasoactive agents..vasodilators; vasopressin

HE-08316 COSBY, RICHARD S., Los Angeles County Hosp., Los Angeles, Cal.
cardioactive agents..antiarrhythmic agents; arrhythmia, cardiac; hydrogen--ion concentration; electrolytes; acidosis; tris (hydroxymethyl) aminomethane; oxygen tension; carbon dioxide tension; heart function; therapy evaluation; pulmonary ventilation

HE-08332 SUTHERLAND, EARL W., Jr., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
sympathomimetic agents; adenyl cyclase; adenosine-3',5'-monophosphate; cell components..cell membrane; blood cells..erythrocytes; brain

HE-08359 BEVAN, JOHN A., Univ. California Med. Cr., Los Angeles, Cal.
adrenergic receptors; ganglion (nervous system)..sympathetic ganglia; arteries..pulmonary artery; nerves..synaptic vesicles; neuroeffectors; nerve impulse transmission; muscle contraction; electrostimulus; temperature; drugs; reserpine; cocaine; yohimbine; phenoxybenzamine; xanthine; papaverine; norepinephrine; tyramine; tritium; ergot alkaloids; dibenthin

HE-08420 IMIG, CHARLES J., State Univ. Iowa, Iowa City, Iowa
blood flow; blood vessels resistance; capillary beds; immobilization; nerves..denervation; norepinephrine; sympathectomy

HE-08439 RYAN, THOMAS J., St. Elizabeth's Hosp., Boston, Mass.
morphine; blood circulation dynamics; therapy evaluation; heart diseases; heart function; heart catheterization; pulmonary ventilation; acid--base equilibrium; oxygen tension; carbon dioxide tension

HE-08453 HAGOPIAN, MIASNIG, Memorial Hosp., Worcester, Mass.
catecholamines; gas chromatography; instrumentation--methodology; myocardial infarct; blood coagulation..fibrinolysis; therapy evaluation

HE-08454 MAXWELL, ROBERT A., Col. Med., Univ. Vermont, Burlington, Vt.
anesthesia; blood circulation dynamics; cardiovascular system; catecholamines; chlorisondamine; cocaine; dibenthin; drugs; emotional reactions; exercise; guanethidine; heart failure; heart function; hexahydro-1-azepinepropionamindoxime; hexamethonium compounds; hypertension (systemic); hypotension; hypovolemia; inconiazid; alpha-methyl DOPA; nervous system, autonomic nervous system; phentolamine; reserpine; ritalin; therapy evaluation; tritium

HE-08467 BIEN, SHLOMO, Technion-Israel Inst. Technology, Haifa, Israel
broad bean; chemical structure--biological activity; favism; hemolysins; synthesis

HE-08570 ZIMMERMAN, BEN, Sch. Med., Univ. Minnesota, Minneapolis, Minn.
angiotensin; blood vessels resistance; blood vessels vasomotion; bradykinin; brain..hypothalamus; brain..medulla oblongata; cocaine; electrostimulus; ganglionic blocking agents, non specific; nerve impulse transmission; nervous system..sympathetic nerves; norepinephrine; pressoreceptors; shock; vasoactive agents; vasopressin

HE-08597 EHRENPREIS, SEYMOUR, Sch. Med., Dent., Georgetown Univ., Washington, D.C.
anesthetics; binding; cardiac glycosides; cardioactive agents; cell components; drugs receptors; heart; immunology..antibodies; molecules..macromolecules; quinidine; veratrum alkaloids

HE-08643 KOCH-WESER, JAN, Sch. Med., Harvard Univ., Boston, Mass.
heart..myocardium; temperature; heart contraction; antimetabolites; drugs interaction; acetylcholine; sympathomimetic agents; cardiac glycosides; electrostimulus; therapy evaluation; hypothermia; angiotensin; bradykinin

HE-08678 HOLLAND, WILLIAM C., Univ. Mississippi Med. Cr., Jackson, Miss.
actomyosin; calcium; cell components..granules; cell components..mitochondria; digitalis; M-B factor; heart..myocardium; muscle..myofibrils; ouabain; phosphatases..adenosine triphosphatase; radiolabeled calcium; reaction sites

HE-08679 ANKENEY, JAY L., Sch. Med., Western Reserve Univ., Cleveland, Ohio
blood circulation dynamics; cardiac glycosides; drugs interaction, synergism; heart function; hypoxia; liver circulation; peripheral vascular system; shock; therapy evaluation

HE-08680 COWAN, FREDERICK F., Sch. Med., Dent., Georgetown Univ., Washington, D.C.
adrenalectomy; carotid body; catecholamines; cyanides; hypoxia; potentials..action potentials; respiration; sympathomimetic agents

HE-08749 OKITA, GEORGE T., Northwestern Univ. Med. Sch., Chicago, Ill.
digitalis; heart failure..congestive heart failure; cardiac glycosides; ouabain; heart..myocardium; high energy compounds; radiolabeled carbon; radiolabeled phosphorus; tritium; species

HE-08764 ERDOS, ERVIN G., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
substance Z; chemical structure; enzymes; bioassay; muscle..smooth muscle; peptides; bradykinin; enzymes inhibitors; proteases..carboxypeptidases; kallidin

HE-08808 GARDIER, ROBERT W., Ohio State Univ., Univ. Hosp., Columbus, Ohio
vasopressin; drugs tachyphylaxis; pressoreceptors; arteries..carotid sinus; nerves..denervation; nervous system..sympathetic nervous system; hypertension (systemic); norepinephrine; guanethidine; chlorisondamine; phenoxybenzamine

HE-08825 HOFF, HEBBEL E., Col. Med., Baylor Univ., Houston, Tex.
2, 4-dinitrophenol; brain..brain stem; brain stem transection; oxygen consumption; body temperature; cardiovascular system; respiration; autonomic reflexes; exercise; pulmonary ventilation; centrally acting drugs; autonomic agents

HE-08839 WESSEL, HANS U., Sch. Med., Northwestern Univ., Chicago, Ill.
digitalis; drugs interaction, antagonism; potassium; heart..myocardium; cardioactive agents..antiarrhythmic agents; glutamates; membrane permeability and transport; toxicology

HE-08895 HOFFMANN, PHILIP C., Univ. Chicago, Chicago, Ill.
electron transport; heart..atrium; cell components.. mitochondria; oxidation-reduction; ubiquinone; adenosine triphosphate; phosphocreatine; amobarbital; antimycin; radiolabeled carbon; rotenone; thiophenes; malonic acid

HE-08919 MARCUS, FRANK I., General Hosp., Washington, D.C.
intestinal motility; intestinal absorption; cardiac glycosides; intestines..small intestine; reaction sites; biliary tract; polymers; tritium; ouabain; digoxin; digitoxin

HE-08921 FEINBERG, HAROLD, Col. Med., Univ. Illinois, Chicago, Ill.
muscle contraction; bioenergetics; adenosine phosphates; amine; functional groups; cardiac glycosides; catecholamines; heart..myocardium; radiolabeled carbon; stable isotope labeled nitrogen

HE-08950 LUKAS, DANIEL S., Cornell Univ. Med. Col., N.Y.C.
digitalis; cardiac glycosides; heart failure; heart..myocardium; cell components; body fluids; kidney..renal tubular transport; reaction sites; actin; myosin; tritium

HE-08961 ALLAN, DAVID, Children's Memorial Hosp., Chicago, Ill.
cardiovascular system; gamma--aminobutyric acid; anesthetics; heart..myocardium; stress; hemorrhage; sodium 4--hydroxybutyrate; heart contraction; 8--hydroxybutyric acid

HE-08964 JONES, JOHN R., Col. Med., Univ. Nebraska, Omaha, Nebr.
hydrogen-ion concentration; body fluids; atropine; dosage; anesthesia; nervous system, vagus nerve; acidosis; alkalosis

HE-08985 ANGELAKOS, EVANGELOS T., Sch. Md., Boston Univ., Boston, Mass.
catecholamines; norepinephrine; epinephrine; dopamine; cell components; reaction sites; binding; particle size; heart; neurohormones

HE-09058 HARRISON, DONALD C., Sch. Med., Stanford Univ., Palo Alto, Cal.
cardiovascular system; adrenergic receptors; peripheral vascular resistance; acidosis; hypoxia; hypothermia; heart function; radiation effects; nerve endings; tritium; norepinephrine; isoproterenol; methoxyamine; phenoxybenzamine

HE-09080 LEVY, JOSEPH V., Presbyterian Med. Cr., San Francisco, Cal.
sodium; ions..cation; ion exchange and transport; reaction sites; aldosterone; ouabain; steroids; chemical structure--biological activity; choline esterase; enzyme inhibitors; tissue respiration; phosphatases, adenosine triphosphatase

HE-09085 KERSHBAUM, ALFRED, Philadelphia Gen. Hosp., Philadelphia, Pa.
smoking; coronary disease; fatty acids; adrenal glands; nervous system..sympathetic nervous system; ethanol; trimethaphan camphorsulfonate; sympatholytic agents; lipids; age; sex difference

HE-09086 ALFRED, CAROLYN C., Sch. Med., Univ. Southern California, University Park, Los Angeles, Cal.
hypothermia; digitalis; heart..atrium; heart ventricles; potentials..membrane potentials; norepinephrine; guanethidine; alpha--methyldopamine; tyramine; reserpine

HE-09129 LEVY, BERNARD, New York Med. Col., New York, N.Y.
sympathomimetic agents; chemical structure--biological activity; adrenergic receptors; sympatholytic agents; reaction sites; dichloroisoproterenol; reserpine; catecholamines; serotonin; oxytocin; bradykinin

HE-09283 GREENBERG, MICHAEL J., Florida State Univ., Tallahassee, Fla.
chemoreceptors; serotonin; catecholamines; acetylcholine; glycogenolysis; phosphorylases; heart

HE-09288 PARADISE, RAYMOND R., Indiana Univ. Med. Cr., Indianapolis, Ind.
nervous system..sympathetic nervous system; digitalis; heart; anesthetics; cardioactive agents.. antiarhythmic agents; lidocaine; toxicology; therapy; acetylstrophanthidin

HE-09320 LANZONI, VINCENT, Sch. Med., Boston Univ., Boston, Mass.
heart block..atrioventricular block; cardioactive agents..arrhythmic agents; heart..myocardium; drugs interaction; potentials..action potentials; digitalis; quinidine; procaine amide; nicotinamide; potassium; ions

HE-09391 CARRIER, OLIVER, Jr., Univ. Mississipoi Med. Cr., Jackson, Miss.
muscles..smooth muscle; endothelium; perfusion; ion exchange and transport; muscle contraction; peripheral vascular resistance; hypertension (systemic); sympathomimetic agents; drugs interaction; epinephrine; norepinephrine; acetylcholine; nicotine; reserpine

HE-09398 FLACKE, WERNER, Sch. Med., Harvard Univ., Boston, Mass.
anesthetics; heart function; blood flow; arteries.. coronary arteries; heart..myocardium; oxygen consumption; peripheral vascular system; nervous system.. central nervous system; nervous system..autonomic nervous system

HE-09532 AVIADO, DOMINGO M., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
pulmonary heart disease; drugs; therapy evaluation; veins..pulmonary veins; pulmonary arterial occlusions; heart function; pulmonary function; bradykinin; angiotensin; norepinephrine; digitalis; atropine; pulmonary emphysema; carotid body

HE-09565 DEFALQUE, RAY J., Veterans Admin. Hosp., Indianapolis, Ind.
heart failure; anesthetics; antidotes; vasoactive agents..vasopressors; digitalis; catecholamines; heart function; heart..ventricles; toxicology

HE-09594 OKUN, RONALD, Cedars-Sinai Med. Cr., Los Angeles, Cal.
diffusion dialysis; molecular size; ionization; binding; uremia; kidney function; drugs; antibiotics; isoniazid; p--aminosalicyclic acid; phenobarbital; pentobarbital; glutethimide; chlorpromazine; meprobamate; chlordiazepoxide; trifluoperazine; diphenhydramine; chlorpheniramine; promethazine; amphetamine; ethanol; methanol; acetylsalicylic acid; methyl salicylate; boric acid; digoxin; digitoxin; alpha-methyl dopa; guanethidine; chlorothiazide; reserpine; renal hypertension

HE-09612 MORROW, DEAN H., Univ. Kentucky Med. Cr., Lexington, Ky.
anesthetics; digitalis; toxicology; drugs tolerance; arrhythmia, cardiac..ventricular fibrillation; heart function; catecholamines; cyclopropane; ethers..ethyl ether; bromochlorotrifluoroethane; thiopental sodium

HE-09649 WEBB, JOHN L., Sch. Med., Univ. Southern California, Los Angeles, Cal.
cell differentiation; heart; cells; acetylcholine; catecholamines; tissue culture; heart function; drugs receptors; potentials..membrane potentials; photosensitivity; aconitine; heart rhythm; enzyme inhibitors

HE-09653 DUTTA, SARADINDU, Col. Med., Ohio State Univ., Columbus, Ohio
quinidine; tritium; reaction sites; heart; cell components; cholecystectomy; biliary tract; heart surgery; congenital heart disease..septal defect; species

HE-10054 ARONSON, ARTHUR L., New York State Vet. Col., Cornell Univ., Ithaca, N.Y.
EDTA; chelating agents; drugs tolerance; ions.. cation; kidney function; nephrotoxins

MH-01420 ELLIS, FRED W., Sch. Med., Univ., North Carolina, Chapel Hill, N.C.
alcoholism; adrenal glands; 17-hydroxycorticosteroids; catecholamines

MH-01902 WALASZEK, EDWARD J., Sch. Med., Univ. Kansas, Kansas City, Kans.
substance P, polypeptide; serotonin; reserpine; neurohormones; brain; cardiovascular system; histamine; catatonia

MH-02329 UHLE, FREDERICK C., Sch. Med., Harvard Univ., Boston, Mass.
synthesis; chemical structure; indoles; cyclic compounds; ergoline; psychotropic drugs

MH-02435 HORITA, AKIRA, Grad. Sch., Univ. Washington, Seattle, Wash.
brain; chemical structure--biological activity; decarboxylases..DOPA decarboxylase; decarboxylases..5-hydroxytryptophan decarboxylase; enzymes inhibitors..monoamine oxidase inhibitors; hydrazines; ionization; norepinephrine; radiolabeled; serotonin; solubility

MH-02717 GOLDSTEIN, MENEK, New York Univ. Med. Cr., New York, N.Y.
nervous system..central nervous system; DOPA; norepinephrine; enzymes inhibitors; phenol oxidases..DOPA oxidases; metabolites; amine; psychotomimetic drugs

MH-03383 PICCHIONI, ALBERT L., Col. Pharm., Univ. Arizona, Tucson, Ariz.
acetylcholine; audiogenic seizure; brain; dopamine; electroshock; electrostimulus; histamine; neurohormones; norepinephrine; serotonin

MH-03477 KRIVOY, WILLIAM A., Col. Med., Baylor Univ., Houston, Tex.
substance P, polypeptide; LSD; spinal cord..dorsal root; potentials; bradykinin; chlorpromazine; neurotropic drugs

MH-03487 BROCHMANN-HANSSEN, EINAR, Sch. Phar., Univ. California, San Francisco, Cal.
alkaloids; opium; gas chromatography; instrumentation-methodology; amino acid; ion exchange; meconic acid; dissociation constants; barbiturates; sympathomimetic agents

MH-03518 GJERSTAD, GUNNAR, Univ. Texas, Austin, Tex.
fungi..Clavicepsa; alkaloids

MH-04012 TRUITT, EDWARD B., Jr., Sch. Med., Univ. Maryland, Baltimore, Md.
alcoholism; chemotherapy; tolbutamide; chlorpropamide; catecholamines; serotonin; acetaldehyde; sulfonylurea; hypoglycemia

MH-04578 RAGLAND, JAMES B., Sch. Med., Baylor Univ., Houston, Tex.
phenothiazine; toxicology; spectrophotofluorometry; gas chromatography; polarography; instrumentation-methodology; tritium; radiolabeled sulfur

MH-04813 MIRONE, LEONORE, Manhattan Col., N.Y.C.
alcoholism; dehydrogenases..alcohol dehydrogenase; ethanol; glycogen; liver; NAD; nitrogen; vitamins

MH-05206 MORACZEWSKI, ALBERT S., Texas Med. Cr., Houston, Texas
brain; cell components..mitochondria; fractionation; phenothiazine; oxidases..cytochrome oxidases; oxidative phosphorylation

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PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS (CONTD)

MH-05317 **O'NEILL, JOHN J.**, Sch. Med., Univ. Maryland, College Park, Md.
brain; electrostimulus; Embden-Meyerhof pathway; glycolysis; oxygen consumption; parasympatholytic agents; pentose pathway; phosphorylation; radiolabeled

MH-05831 **SHORE, PARKHURST A.**, Univ. Texas, Dallas, Texas
serotonin; catecholamines; histamine; brain; mast cells; blood cells..thrombocytes

MH-05832 **PAASONEN, MATTI K.**, Sch. Med., Univ. Helsinki, Helsinki, Finland
serotonin; blood cells..thrombocytes; reserpine; amine; chlorpromazine

MH-06347 **HARDINGE, MERVYN G.**, Sch. Med., Loma Linda Univ., Loma Linda, Cal.
amphetamine; toxicology; neuromuscular transmission; body temperature; muscle contraction; lactates; neuromuscular blocking agents

MH-06796 **ELDER, JOHN T.**, Sch. Med., Univ. Washington, Seattle, Wash.
brain; catecholamines; dibozane; drugs interaction (antagonism); drugs tolerance; fever; hydrazinophthalazine; hyperglycemia; LSD; phenoxybenzamine; serotonin; sympatholytic agents

MH-07177 **JENKINS, GLENN L.**, Sch. Pharm., Purdue Univ., West Lafayette, Ind.
enzymes inhibitors..monoamine oxidase inhibitors; chemical structure--biological activity; synthesis

MH-07230 **COCHIN, JOSEPH**, Sch. Med., Boston Univ., Boston, Mass.
drugs tolerance; drugs addiction; narcotics; screening; N-demethylation; enzymes inhibitors; morphine; allylnormorphine; liver

MH-08187 **BAN, YOSHIO**, Sch. Med., Hokkaido Univ., Sapporo, Hokkaido, Japan
alkaloids; indoles; synthesis; iboga alkaloids; vinca alkaloids; antineoplastic agents; psychotomimetic drugs; polyphosphates; catalysts

MH-08348 **JARBOE, CHARLES H.**, Col. Med., Univ. Louisville, Louisville, Ky.
centrally acting drugs; chemical structure--biological activity; convulsants; lactones; picrotoxin; stereochemistry; synthesis

MH-08580 **HUG, CARL C., JR.**, Sch. Med., Univ. Mich., Ann Arbor, Mich.
narcotics; analgesics; morphine; kidney..renal tubular transport; intestinal absorption; pancreas; salivary glands; blood-cerebrospinal fluid barrier; membrane permeability and transport; tritium; body fluids; primates..monkeys

MH-08803 **MIYA, TOM S.**, Purdue Res. Fdn., Lafayette, Ind.
phenothiazine; chlorpromazine; radiolabeled sulfur; metabolites; chemical structure--biological activity; psychoses; estradiol; progesterone; liver

MH-10372 **GREENBERG, RUVEN**, Univ. Illinois Med. Cr., Chicago, Ill.
secretory mechanisms; adrenal medulla; metabolites; epinephrine; norepinephrine; dopamine; tritium; exercise; phosphatases; catecholamines; cell components ..lysosomes

MH-10860 **GUTH, PAUL S.**, Sch. Med., Tulane Univ., New Orleans, La.
chlorpromazine; drugs interaction; membrane permeability and transport; reaction sites; cell components..lysosomes; liver; nerves..synaptic vesicles; nerve endings; brain; acetylcholine; phosphomonoesterases..acid phosphatase

MH-10931 **ASTON, ROY**, Sch. Med., Wayne State Univ., Detroit, Mich.
drugs hypersensitivity; drugs tolerance; liver; enzymes; hypnotics and sedatives; phenobarbital; pentobarbital; thiopental sodium; glutethimide; chlorpromazine; meprobamate

MH-11168 **McISAAC, WILLIAM M.**, Col. Med., Baylor Univ., Houston, Tex.
serotonin; melatonin; chemical structure--biological activity; cyclization; indoles; bioassay; brain.. pineal body

MH-11679 **SPIRTES, MORRIS A.**, Veterans Admin. Hosp., Pittsburgh, Pa.
blood cells..erythrocytes; chlorpromazine; phenothiazine; membrane permeability and transport; ion exchange and transport; glucose; lipids; proteins; binding; electrophoresis

MH-11758 **SPIRTES, MORRIS A.**, Veterans Admin. Hosp., Pittsburgh, Pa.
chlorpromazine; liver; brain; cell components..mitochondria; water--electrolyte balance; membrane permeability and transport; phenothiazine

MH-11828 **RETZLAFF, ERNEST W.**, Battelle Mem. Inst., Columbus, Ohio
nerves..neurons Mauthner's; psychotropic drugs; single cell analysis; potentials

NB-00282 **KOELLE, GEORGE B.**, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
acetylcholine; cholinesterases..acetylcholinesterase; muscle; nerve impulse transmission; nerves..synapse

NB-00384 **BUTLER, THOMAS C.**, Sch. Med., Univ. North Carolina, Chapel Hill, North Carolina
cell components..microsomes; liver; methyl groups; barbiturates; hydantoin; 5,5-dimethyl-2,4-oxazolidinedione; hydrogen-ion concentration; neoplastic cells; secobarbital sodium; stereoisomers

NB-00570 **ELLIOTT, HENRY W.**, Univ. California Med. Cr., San Francisco, Cal.
anesthetics; morphine; drug addiction; radiolabeled carbon; dueterium; synthesis; screening; morphine analogs; respiration; analgesics; nervous system.. central nervous system; opium; drugs tolerance

NB-00738 **TAYLOR, DERMOT B.**, U. California, Los Angeles, Cal.
neuromuscular blocking agents..depolarizing agents; radiolabeled iodine; neuromuscular junction; neuromuscular transmission; curare; potassium

NB-00872 **ESPLIN, DON W.**, Sch. Med., Univ. Utah, Salt Lake City, Utah
centrally acting drugs; muscle relaxants..anticonvulsants; convulsants; depressants; nerve impulse transmission; nerves..synapse; ganglion, nervous system..autonomic ganglia; spinal cord; nerves..neurons; ion exchange and transport; electrophysiology; parasympathomimetic agents

NB-00940 **GIARMAN, NICHOLAS J.**, Sch. Med., Yale Univ., New Haven, Conn.
serotonin; brain; nerves..neurons; binding; behavior; psychotropic drugs; catecholamines; embryology; decarboxylases..5--hydroxytryptophan decarboxylase; oxidoreductases..monoamine oxidase; neurohormones; amino acids; gamma--aminobutyric acid; gamma--butyrolactone; depression; gamma--hydroxybutyric acid

NB-00973 **SMITH, CEDRIC M.**, Col. Med., Univ. Illinois, Chicago, Ill.
muscle stretch receptors; muscle stretch reflex; muscle relaxants; nervous system..afferent nerves; tetanus, nonclostridial; ischemia; spinal cord; drugs

NB-01093 **DOUGLAS, WILLIAM W.**, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
acetylcholine; ion; nerve endings; nervous system..parasympathetic nervous system; neurosecretion; pituitary gland..neurohypophysis; vasopressin

NB-01297 **MAREN, THOMAS H.**, Col. Med., Univ. Florida, Gainesville, Fla.
sulfonamides; aromatic compounds; dehydratases.. carbonic anhydrase; binding; enzymes inhibitors.. carbonic anhydrase inhibitors; chlorothiazide; kidney.. renal tubular transport; diuresis; enzymes

NB-01396 **LONG, J.P.**, Col. Med., State Univ. Iowa, Iowa City, Iowa
antibiotics; autonomic agents; chemical structure--biological activity; hemicholinium; neuromuscular transmission; synthesis

NB-01447 **RIKER, WALTER F., Jr.**, Cornell Univ. Med. Col., N.Y.C.
acetylcholine; neostigmine; neuromuscular blocking agents..depolarizing agents; neuromuscular junction; neuromuscular transmission; physostigmine; d-tubocurarine

NB-01448 **MAENGWYN-DAVIES, GERTRUDE D.**, Sch. Med., Dent., Georgetown Univ., Washington, D.C.
isoproterenol; sympathomimetic agents; chemical structure--biological activity; blood pressure; arteries..aorta; drugs tachyphylaxis; ganglion, nervous system..sympathetic ganglia

NB-01471 **CHAGAS, CARLOS**, Univ. Brazil, Rio de Janeiro, Brazil
curare; binding; cell components; sedimentation constants; mucopolysaccharides; electric organ; nerves..denervation; muscle..skeletal muscle; radioautography

NB-01582 **CONDOURIS, GEORGE A.**, Sch. Med., Dent., Seton Hall Col., Jersey City, N.J.
nerve impulse transmission; nervous system..peripheral nerves; anesthetics; carbon dioxide

NB-01713 **TRENDELENBURG, ULLRICH G.**, Harvard Med. Sch., Boston, Mass.
sympathomimetic agents; alkaloids; reserpine; norepinephrine; tyramine; cocaine; ganglionic stimulating agents; autonomic reflexes; drugs classification; drugs hypersensitivity; eyelids..nictitating membrane; heart..atrium

NB-01730 **HOKIN, LOWELL E.**, Sch. Med., Univ. Wisconsin, Madison, Wis.
birds; sodium; salt glands; lipoproteins; phosphatidic acids; phospholipids; radiolabeled phosphorus; brain; acetylcholine; cell--free systems; phosphatidyl inositol

NB-01756 **HOSEIN, ESAU A.**, Sch. Med., McGill Univ., Montreal, Canada
acetylcholine; anserine; brain; carnitine; carnosine; cell components; choline esterases; coenzyme A.. betaine coenzyme A esters; convulsions; dietary deficiency; ganglion (nervous system)..autonomic ganglia; heart; muscle..skeletal muscle; narcotics; nerve impulse transmission; nerves..denervation; thiamine; tocopherol; transacylases..choline transacylase

NB-01966 **LEVINE, RUTH R.**, Sch. Med., Boston Univ., Boston, Mass.
benzomethamine compounds; cyclization; dosage; haloalkylamines; hexamethonium compounds; intestinal absorption; phospholipids

NB-02054 **WHITE, ALLEN I.**, Col. Phar., Wash. State Univ., Pullman, Wash.
synthesis; aminotetralins; chemical structure--biological activity; analgesics

NB-02294 **MELLETT, LAWRENCE B.**, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
allylnormorphine; analgesics; binding; isomers; morphinan; morphine; nervous system; primates..monkeys; radiolabeled

NB-02330 **STAHNKE, HERBERT L.**, Col. Liberal Arts, Arizona State Univ., Tempe, Ariz.
venoms; reptiles; scorpions; proteins; proteases; starch gel electrophoresis; gel diffusion technique; immune sera

NB-02453 **TOWNE, JACK C., Sch. Med., Northwestern Univ., Evanston, Ill.**
brain; catecholamines; conjugates; endocrine glands; 5-hydroxytryptophan; lipids; serotonin; thyroid hormones

NB-02474 **ZAIMIS, ELEANOR, Royal Free Hosp. Sch. Med., London, England**
blood flow; neostigmine; nerves; neuromuscular blocking agents; neuromuscular transmission; sympathomimetic agents

NB-02497 **AIELLO, EDWARD L., New York Med. Col., New York City, N. Y.**
cilia; cell components..ciliary movement; indoles; nerves..denervation; tissue respiration

NB-02508 **ADLER, TERRINE K., Univ. California Med. Ctr., San Francisco, Cal.**
benzimidazoles; isomers; centrally acting drugs; depressants; metabolites; radiolabeled carbon

NB-02534 **PFIFFNER, JOSEPH J., Sch. Med., Wayne State Univ., Detroit, Mich.**
substance P, polypeptide; brain; enzymes

NB-02650 **LORENTE de NO, RAFAEL, Rockefeller Inst., New York, N.Y.**
potentials..action potentials; nerves; sodium; nitrogen compounds; nerve impulse transmission; brain

NB-02928 **WOODS, LAUREN A., Col. Med., State Univ. Iowa, Iowa City, Iowa**
morphine; brain; alkaloids; dihydromorphine; narcotics; tritium; pregnancy..placental transfer; primates..monkeys

NB-02947 **WEINER, NORMAN, Sch. Med., Harvard Univ., Boston, Mass.**
adrenal medulla; catecholamines; reserpine; tyramine; guanethidine; 2-4-dinitrophenol; cocaine; epinephrine

NB-02953 **ROCHA e SILVA, MAURICIO, Sch. Med., Univ. Sao Paulo, Brazil**
bradykinin; cardiovascular system; pulmonary circulation; capillaries; endothelium permeability and transport; inflammation; shock; nervous system..central nervous system; stimulants; sulfhydryls; chelating agents; biological compounds preparation; wasps; venoms; pain tolerance

NB-03007 **JENDEN, DONALD J., Sch. Med., Univ. California, Los Angeles, Cal.**
chemical structure--biological activity; parasympathomimetic agents; parasympatholytic agents; tremor; stereochemistry; nervous system..central nervous system; electrophysiology; oxotremorine; tremorine; metabolites

NB-03026 **KOSTERLITZ, HANS W., Marischal Col., Univ. Aberdeen, Scotland**
morphine; analgesics; sensory mechanisms; nerve impulse transmission; nerve endings; nerves..synapse; nervous system..sympathetic nervous system; neuromuscular junction; acetylcholine; epinephrine; radiolabeled; neurosecretion

NB-03034 **FLEMING, WILLIAM W., Sch. Med., West Virginia Univ., Morgantown, W.Va.**
drugs classification; chemical structure; sympathomimetic agents; catecholamines; reserpine; sympatholytic agents; glycogenolysis; drugs hypersensitivity; adrenergic receptors

NB-03035 **BIDDER, T. GEORGE, Sch. Med., Western Reserve Univ., Cleveland, Ohio**
blood-brain barrier; membrane permeability and transport; radiolabeled chromium; radiolabeled iron; parasympathomimetic agents; hexoses

NB-03178 **BRYANT, SHIRLEY H., Col. Med., Univ. Cincinnati, Cincinnati, Ohio**
muscular dystrophy; electrophysiology; electrodes..microelectrodes; ion; chlorides; membrane permeability and transport; radiolabeled chlorine; nerve endings; muscle

NB-03196 **SUTHERLAND, VIOLETTE C., Sch. Med., Univ. California, San Francisco, Cal.**
brain; ethanol; acetaldehyde; barbiturates; chloroquinazine; glucose amino acid

NB-03320 **FLACKE, WERNER, Sch. Med., Harvard Univ., Boston, Mass.**
germine esters; alkaloids; muscle tension; muscle; neuromuscular blocking agents; electrophysiology

NB-03321 **BIANCHI, C. PAUL, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
membrane permeability; muscle tension; muscle contraction; potentials..membrane potentials; calcium; radiolabeled calcium; acetylcholine; neurohormones; nerves; muscle; radiolabeled carbon

NB-03322 **BIANCHI, C. PAUL, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
lipids; monomolecular films; membrane permeability and transport; drugs

NB-01434 **VOLLE, ROBERT L., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
ganglion (nervous system)..superior cervical ganglion; electrostimulus; nerve impulse transmission; ganglionic blocking agents; ganglionic stimulating agents; nerves..synapse; potentials; nerves..denervation; nervous system..preganglionic fibers; conditioning

NB-03464 **GROB, DAVID, Maimonides Hosp., Brooklyn, N.Y.**
neuromuscular transmission; muscle contraction; neuromuscular disorders; fatigue; potentials; muscle; electrostimulus; nerves; acetylcholine; enzymes inhibitors..anticholinesterase; potassium; hypothermia; cholinergic receptors; radiolabeled carbon; myasthenia gravis

NB-03520 **AUDITORE, JOSEPH V., Meharry Med. Col., Nashville, Tenn.**
nervous system..central nervous system; brain; acetylcholine; solutions..aqueous solutions; stereochemistry

NB-03534 **BUSH, MILTON T., Sch. Med., Vanderbilt Univ., Nashville, Tenn.**
autonomic agents; barbital; barbiturates; blood-brain barrier; drugs interaction (antagonism); drugs interaction (synergism)

NB-03544 **WILLIAMS, HARRY L., Emory Univ., Atlanta, Ga.**
hydrazines; pyridoxine analogs; dietary deficiency; pyridoxine; vitamers; isoniazid; antidotes; phosphorylation; electrocorticography; epilepsy; anemia; brain

NB-03632 **GADSDEN, RICHARD H., Med. Col. South Carolina, Charleston, S.C.**
anesthetics; blood; brain; cardiovascular system; electroencephalography; gas chromatography; instrumentation; toxicology

NB-03695 **EHRENPREIS, SEYMOUR, Sch. Med., Georgetown Univ., Washington, D.C.**
cholinergic receptors; electric organ; drugs hypersensitivity; molecular structure; binding; drugs; proteins; muscle; polysaccharides; nervous system; venoms; detergents; acetylcholine; d-tubocurarine

NB-03680 **MORRIS, RALPH W., Sch. Pharm., Univ. Illinois, Chicago, Ill.**
centrally acting drugs; acetylcholine; autonomic agents; barbiturates; phenothiazine; chemical structure--biological activity; sleep; psychotropic drugs; drugs interaction

NB-03907 **CHAMBERS, RICHARD A., New Jersey Col. Med., Jersey City, N.J.**
lidocaine; nerve impulse transmission; spinal cord..dorsal root; reflex; paresthesia; ion; ischemia; nerves; tetany; convulsions; electrophysiology; brain

NB-03909 **MATSUMOTO, HIROMU, Col. Tropical Agr., Univ. Hawaii, Honolulu, Hawaii**
seeds; cycads; toxins; liver; hepatoma; nervous system

NB-03928 **WHITTAKER, VICTOR P., Inst. Animal Physiology, Cambridge, England**
brain; nerve endings; centrally acting drugs; nerve impulse transmission; cell components

NB-03968 **RECH, RICHARD H., Sch. Med., Dartmouth Col., Hanover, N.H.**
pulmonary edema; vagotomy; nervous system, autonomic nervous system; neurohormones; brain..brain stem; electrophysiology; brain lesions; membrane permeability; mesentery

NB-04006 **DOUGLAS, WILLIAM W., Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.**
acetylcholine; calcium; electrolytes; adrenal medulla; nervous system..sympathetic nervous system; catecholamines; membrane permeability; drugs

NB-04138 **BRECHNER, VERNE L., Sch. Med., Univ. California, Los Angeles, Cal.**
oxygen; potassium superoxide; resuscitation; anesthesia; respirators; instrumentation; potassium peroxide

NB-04153 **MAYNERT, E.W., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
oxidation; barbiturates; 5-ethyl-5-n-hexylbarbituric acid; paraldehyde; acetaldehyde; pentylenetetrazol; conjugates; centrally acting drugs; radiolabeled

NB-04212 **HOLADAY, DUNCAN A., Sch. Med., Univ. Chicago, Chicago, Ill.**
anesthetics; 2,2-dichloro-1,1-difluoroethyl methyl ether; gases; pulmonary ventilation; solubility

NB-04276 **SMITH, J. CRISPIN, Montefiore Hosp., New York, N.Y.**
transacylases..choline transacylase; brain; muscle; myasthenia gravis

NB-04291 **FOX LAURETTA E., Col. Phar., Univ. Florida, Gainesville, Fla.**
gamma-aminobutyric acid; transamination; behavior; brain; spinal cord; synapses; enzymes inhibitors

NB-04305 **WHITE, RICHARD P., Sch. Phar., Univ. Tennessee Med. Units, Memphis, Tenn.**
brain; potentials; centrally acting drugs; parasympathomimetic agents; parasympatholytic agents; drugs interaction, synergism; drugs interaction, antagonism; drugs receptors

NB-04316 **RESSLER, CHARLOTTE, Inst. Muscle Disease, New York, N.Y.**
β--cyano--L--alanine; lathyrogenic agents; chemical structure--biological activity; plants; asparagine; dehydration reactions; survey; peptides; diaminobutyric acid; amides

NB-04353 **MAYNERT, E.W., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
brain..hypothalamus; norepinephrine; nervous system..sympathetic nervous system; electroshock; binding; nerves..synaptic vesicles; hypnotics and sedatives; tranquilizers; stress; oxidases..monoamine oxidase; transferases..o--methyltransferase; nerve endings; serotonin

NB-04355 **GILL, EDWARD W., Sch. Med., Oxford Univ., Oxford, England**
polypeptides; synthesis; binding; drugs; amino acid sequence; molecular structure; acetylcholine; histidine; aspartic acid; cholinergic receptors; hydrogen bond; thermodynamics; solutions..aqueous solutions

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PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS (CONTD)

NB-04359 **CARLSSON, ARVID**, Sch. Med., Univ. Gothenburg, Gothenburg, Sweden
norepinephrine; brain mapping; nervous system.. symoathetic nervous system; serotonin; dopamine; epinephrine; reserpine; guanethidine; chlorpromazine; DOPA; 5--hydroxytryptophan; alpha--methyl--m--tyrosine; alpha--methyl--norepinephrine; alpha--methyl--DOPA; metaraminol; imipramine

NB-04392 **LEADERS, FLOYD E., Jr.**, Univ. Kansas Med. Cr., Kansas City, Kansas
acetylcholine; atropine; electrostimulus; heart.. atrium; hemicholinium; limbs; nervous system.. parasympathetic nervous system; nervous system.. sympathetic nervous system; neuroeffectors; nicotine; perfusion

NB-04421 **GLOW, PETER H.**, Sch. Behavior, Biochem., Univ. Adelaide, Adelaide, South Australia
choline esterases..acetylcholinesterase; arterial infusions; acetylcholine; eye..retina; muscle..skeletal; muscal; brain; photostimulus; stress; behavior; enzymes substrate

NB-04431 **LONG, JOHN P.**, Sch. Med., State Univ. Iowa, Iowa City, Iowa
hemicholinium; acetylcholine; nerves..denervation; tritium; muscle..skeletal muscle; muscle..smooth muscle; heart..myocardium; eye..ciliary; eye.. iris; nerve impulse transmission

NB-04433 **VAN GELDER, NICO M.**, Sch. Med., Tufts Univ., Medford, Mass.
acetylcholine; cholinergic receptors; gamma-amino-butyric acid; ion; membrane permeability; nerve impulse transmission; nerves..synapse

NB-04435 **McISAAC, ROBERT J.**, Sch. Med., State Univ., N.Y., Buffalo, N.Y.
nerve impulse transmission; potentials; ganglion.. nervous system..superior cervical ganglion; catecholamines; oxidases..monoamine oxidase; transferases..O-methyl transferase; reserpine; guanethidine; ganglion, nervous system..ciliary ganglion; neurohormones

NB-04436 **KEATS, ARTHUR S.**, Texas Med. Cr., Houston, Tex.
drugs interaction; narcotics; respiration; morphine; allylnormorphine; 2--hydroxy--5,9--dimethyl--2--(3,3--dimethylallyl)--6,7--benzomorphan

NB-04468 **GILLIES, ALASTAIR J.**, Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
anesthetics; solubility; nitrous oxide; blood; solutions.. aqueous solutions; gases

NB-04553 **GOODMAN, LOUIS S.**, Col. Med., Univ. Utah, Salt Lake City, Utah
adrenal cortex hormones; age; behavior; blood-brain barrier; blood-cerebrospinal fluid barrier; brain; carbon dioxide; cell fluids; centrally acting drugs; chemical structure--biological activity; conditioning; convulsants; dehydratases..carbonic anhydrase; drugs; electrolytes; emotional reactions; enzymes inhibitors..carbonic anhydrase inhibitors; epilepsy; iodide; muscle..skeletal muscle; muscle relaxants..anticonvulsants; neurochemistry; neuropharmacology; nucleic acids; research programs; sex hormones; stress; thyroid gland

NB-04554 **GERO, ALEXANDER**, Hahnemann Med. Col., Philadelphia, Pa.
morphine; nalorphine; drugs interaction; instrumentation--methodology

NB-04580 **BOLTON, SANFORD**, Sch. Pharm., Univ. Rhode Island, Kingston, R.I.
enzymes inhibitors..anticholinesterase; choline esterases.. acetylcholinesterase; metal chelates; chemical structure--biological activity; synthesis

NB-04614 **KEATS, ARTHUR S.**, Col. Med., Baylor Univ., Houston, Tex.
decamethonium compounds; neuromuscular transmission; neuromuscular blocking agents..depolarizing agents; neostigmine; drugs interaction, antagonism; muscle

NB-04618 **WAUD, DOUGLAS R.**, Sch. Med., Harvard Univ., Boston, Mass.
neuromuscular blocking agents..depolarizing agents; neuromuscular junction; reaction rates (chemistry); iontophoresis; chemical structure--biological activity; drugs receptors; stability constants; cholinergic receptors

NB-04666 **DISTEFANO, VICTOR**, Sch. Med., Univ. Rochester, Rochester, New York
brain..medulla oblongata; epinephrine; tritium; adrenergic receptors; electrophysiology; brain lesions; hyperglycemia

NB-04667 **WOLF, STEWART G.**, Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
headache, migraine; analgesics; instrumentation--mechanical pressure

NB-04698 **BONNYCASTLE, DESMOND D.**, Seton Hall Col. Med., Dent., Jersey City, N.J.
nervous system..central nervous system; serotonin; epinephrine; body temperature; stimulants..antidepressants; depressants; enzyme inhibitors..monoamine oxidase inhibitors; dopamine; brain..basal ganglia; muscle relaxants; antihistamines

NB-04699 **SASTRY, B.V. RAMA**, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
neuromuscular transmission; cholinergic receptors; chemical structure--biological activity; hydrolysis; choline esterases; lactoylcholines; parasympatholytic agents; parasympathomimetic agents; atropine; muscarine; physostigmine; nicotine; choline esters; synthesis; stereochemistry

NB-04703 **ROSENTHAL, IRA M.**, Sch. Med., Univ. Illinois, Chicago, Ill.
neuroblastoma; catecholamines; radiolabeled; pheochromocytoma; transferases..catechol o-methyl transferase

NB-04812 **POTTER, LINCOLN T.**, Harvard Med. Sch., Boston, Mass.
acetylcholine; choline esterases..acetylcholinesterase; muscle..smooth muscle; nerve impulse transmission; nerves..synaptic vesicles; nervous system..peripheral nerves; neuroendocrine systems; norepinephrine; oxidases ..monamine oxidase; phenol oxidases..DOPA oxidases; radiolabeled carbon; transacylases..choline transacylase; transferases..catechol O-methyl transferase; tritium

NB-04843 **DOENGES, F. EUGENE**, Sch. Med., Univ. Missouri, Columbia, Mo.
abdominal viscera; autonomic reflexes; enzymes inhibitors..monoamine oxidase inhibitors; epinephrine; nerve impulse transmission..efferent impulses; nervous system..vagus nerve; norepinephrine; parasympatholytic agents; parasympathomimetic agents; potentials..action potentials; sensory mechanisms; stimulants; sympatholytic agents; tranquilizers

NB-04902 **KREKE, CORNELIUS W.**, Col. Liberal Arts, Mount Mercy Col., Pittsburgh, Pa.
metals chelates; binding; proteins; metals; lipids; zinc; enzymes; conformations (chemistry); multiple sclerosis; cerebrospinal fluid; proteins denaturation

NB-04939 **DRASKOCZY, PAUL R.**, Harvard Med. Sch., Boston, Mass.
adrenal glands; arousal; catecholamines; guanethidine; heart; hibernation; liver; radiolabeled carbon; reserpine; temperature; tritium

NB-04967 **JENDEN, DONALD J.**, Sch. Med., Univ. California, Los Angeles, Cal.
ryanodine; calcium; binding; phosphatases, adenosine triphosphatase; cell components..granules; muscle.. skeletal muscle; heart..myocardium; M-B factor

NB-05063 **FEINSTEIN, MAURICE B.**, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
anesthesia; binding; calcium; ion..cation; membrane permeability; muscle contraction; neuromuscular blocking agents..depolarizing agents; neuromuscular transmission; phospholipids; radiolabeled calcium

NB-05109 **FLEMING, MARIE C.**, Tufts Univ. Med. Sch., Boston, Mass.
glycolysis; amino acids; enzyme substrate; brain; brain lesions; sleep; drugs; poison

NB-05121 **COOPER, JACK ROSS**, Sch. Med., Yale Univ., New Haven, Conn.
phosphotransferases, ATP- thiamine pyrophosphotransferase; thiamine; oxythiamine; pyrithiamine; acetylcholine; veratridine; membrane permeability and transport; potentials..action potentials; nerve impulse transmission; reaction sites; nervous system..vagus nerve; brain..cerebral cortex; polyneuritis..endemic polyneuritis; tritium; radiolabeled carbon

NB-05126 **KEATS, ARTHUR S.**, Col. Med., Baylor Univ., Houston, Tex.
bronchospasm; lung..bronchomotor; dead space; drugs interaction; pulmonary airway resistance; anesthesia; atropine; scopolamine; pentobarbital; morphine; thiopental sodium; bromochlorotrifluoroethane; consciousness

NB-05171 **TAKEMORI, AKIRA E.**, Sch. Med., Univ. Minnesota, Minneapolis, Minn.
brain; narcotics; glucose; enzymes; pentose pathway; tissue respiration; radiolabeled carbon

NB-05201 **PAINE, RICHARD S.**, Children's Hosp., Washington, D.C.
blood-cerebrospinal fluid barrier; lead encephalitis; kidney..renal tubules; kidney..glomerulus; urea; brain edema; membrane permeability and transport

NB-05329 **KUTT, HENN**, Bellevue Hosp., New York, N.Y.
toxicology; muscle relaxants..anticonvulsants; diphenylhydantoin; phenobarbital; blood disorders; dermatitis; diagnostic tests; metabolic diseases; epilepsy; brain; nerves..neurons; heart conduction system..Purkinje fibers

NB-05330 **SOMJEN, GEORGE C.**, Sch. Med., Duke Univ., Durham, N.C.
nerves..motor neurons; nerve impulse transmission; muscle stretch reflex; spinal cord transection; anesthetics; potentials..membrane potentials; single cell analysis

NB-05348 **KADIS, LESLIE B.**, Albert Einstein Col. Med., Bronx, N.Y.
blood vessels; vasomotion; anesthetics; perfusion; catecholamines; potentials..membrane potentials; ions..cation; reaction sites

NB-05379 **DI PALMA, JOSEPH R.**, Hahnemann Med. Col. and Hosp., Philadelphia, Pa.
anthocyanins; medicinal plants; chemical structure--biological activity; neurohormones; membrane permeability and transport; neuromuscular junction

NB-05410 **FRUMIN, J. JACK**, Mt. Sinai Hosp., New York, N.Y.
muscle relaxants; respiration; brain..respiratory center; apnea; centrally acting drugs

NB-05407 **BERNSTEIN, HOWARD N., Eye Res. Fdn., Bethesda, Md.**
chloroquine; toxicology; retinopathy; binding; chelating agents; diagnostic tests; therapy evaluation; longitudinal study; electroencephalography

NB-05420 **KELLETT, JAMES C., Jr., Sch. Pharm., Univ. North Carolina, Chapel Hill, N.C.**
synthesis; autonomic agents; cholinergic receptors; choline esterases..acetylcholinesterase; enzyme inhibitors; quinuclidines; molecular structure; stereochemistry; conformations (chemistry); chemical structure--biological activity; ions.. anion; reaction sites; ammonium; ganglion, nervous system..autonomic ganglia; neuroeffectors; neuromuscular junction

NB-05458 **BOWMAN, JOHN M., Sch. Vet. Med., Univ. Georgia, Athens, Ga.**
decamethonium compounds; neuromuscular transmission; neuromuscular blocking agents..depolarizing agents; drugs receptors; potentials

NB-05505 **POTTS, ALBERT M., Univ. Chicago, Chicago, Ill.**
methanol poisoning; glutamates; polycyclic compounds; eye..retina; eye..uvea; brain..basal ganglia; binding; melanin; stoichiometry; parasympathomimetic

NB-05520 **BRECHNER, VERNE L., Sch. Med., Univ. California, Los Angeles, Cal.**
electroencephalography; anesthesia; hypercapnia; hypoxia; threshold; lung..alveolus; gas tensions; infant human; age; monitoring; cyclopropane; bromochlorotrifluoroethane; benthrane; trichloroethylene; ethers..diethyl ether; nitrous oxide

NB-05522 **KNUTSON, ROBERT C., Univ. Minnesota Med. Cr., Minneapolis, Minn.**
electroencephalography; classification; brain; computer analysis; anesthesia; instrumentation--methodology

NB-05525 **KATT, DEAN D., Midwest Res. Inst., Kansas City, Mo.**
venoms; neurotoxins; chemical structure--biological activity; amino acid sequence; immunology; antigens; antivenins

NB-05526 **GOLDMAN, HAROLD, Ohio State Univ. Hosp., Columbus, Ohio**
neurohormones; perfusion; heart function; capillary beds; blood flow; nerve endings; binding; nervous system..central nervous system; vasopressin; oxytocin; epinephrine; norepinephrine; isoproterenol; darenthin; cocaine; reserpine; pituitary hormones.. neurohypophyseal hormones; radiolabeled rubidium

NB-05527 **KRAMER, STANLEY Z., New York Med. Col., New York, N.Y.**
drugs; electroencephalography; brain lesions; reaction sites; potentials..evoked potentials; blood--brain barrier; infant animals; sleep; heart function; brain..brain stem; brain..optic tracts; antihistamines; histamine; sympatholytic agents; sympathomimetic agents; parasympathomimetic agents

NB-05541 **SMITH, J. CRISPIN, Montefiore Hosp., New York, N.Y.**
choline esterase; succinyl choline; apnea; metabolic diseases inborn; chemical structure--biological activity; genetics..genes

NB-05542 **LOWE, HARRY J., Millard Fillmore Research Inst., Buffalo, N.Y.**
gas tensions; diffusion; hyperoxia; resuscitation; anesthetics; cyclopropane; bromochlorotrifluoroethane; chloroform; 2,2--dichloro--1,1--difluoroethyl methyl ether; ethers

NB-05546 **DAL SANTO, GIANFRANCO, Sch. Med., Wayne State Univ., Detroit, Mich.**
brain; blood--brain barrier; d--tubocurarine; radiolabeled carbon; cerebrospinal fluid; hypoxia; hypercapnia; anesthesia; hypothermia; hemorrhagic shock; binding; blood proteins..plasma proteins; muscle relaxants

NB-05574 **MATTHEWS, JAMES H., Univ. Minnesota Med. Cr., Minneapolis, Minn.**
anesthetics; toxicology; therapy evaluation; adrenal glands; brain..hypothalamus; corticosterone; acetylcholine; opium; atropine; digitalis; ouabain; reserpine; chlorodiazepoxide; bromochlorotrifluoroethane

NB-05588 **MILLER, JERRY R., Indiana Univ. Med. Cr., Indianapolis, Ind.**
anesthesia; kidney function; water--electrolyte balance; blood flow; oxygen consumption; glucose; aldosterone; p--aminohippurate; kidney..renal tubules; kidney disorders; amino; ethers; cyclopropane; nitrous oxide; barbiturates; halogenated hydrocarbons; bromochlorotrifluoroethane

NB-05611 **ANDERSON, EDMUND G., Sch. Med., Univ. Illinois, Chicago, Ill.**
spinal cord; nerves..synapse; electrophysiology; enzyme inhibitors..monoamine oxidase inhibitors; reserpine; 5--hydroxytryptophan; serotonin; norepinephrine

NB-05706 **STANDAERT, FRANK G., Col. Med., Cornell Univ., New York, N.Y.**
nerves..motor neurons; nerve endings; neuromuscular junction; reaction sites; neuromuscular blocking agents..depolarizing agents; muscles.. myofibrils; nervous system..peripheral nerves; potentials..action potentials; succinyl choline; physostigmine; d--tubocurarine; diphenlhydantoin; cyclopropane; botulinus toxin

NB-05723 **WEINER, NORMAN, Sch. Med., Harvard Univ., Boston, Mass.**
norepinephrine; reaction sites; tritium; radiolabeled carbon; brain; heart; vas deferens; uterus; tyramine; darenthin; reserpine; alpha--methyl DOPA; iproniazid

NB-05842 **SABAWALA, PHIROZE B., Col. Med., Baylor Univ., Houston, Tex**
muscle..intercostal muscles; neuromuscular disorders; electrophysiology; venoms; antivenins; chelating agents; neostigmine; snakes

NB-06013 **RECH, RICHARD H., Sch. Med., Dartmouth Col., Hanover, N.H.**
potentials..evoked potentials; brain; catecholamines; conditioning; computer analysis; α--methyl--m--tyrosine; norepinephrine; dopamine; reserpine; serotonin; cocaine; imipramine; enzyme inhibitors.. monoamine oxidase inhibitors; phenoxybenzamine; chlorpromazine

NB-06076 **FRIEDMAN, ALEXANDER H., Stritch Sch. Med., Loyola Univ., Chicago, Ill.**
oxotremorine; tremorine; electrophysiology; neuromuscular junction; nervous system..afferent nerves; nervous system..efferent nerves; muscle stretch receptors; tremor; muscle tension; electrodes..microelectrodes; catecholamines; brain; tetanus, nonclostridial; serotonin; brain.. brain stem; brain..caudate nucleus; dopamine

OH-00082 **HAMMOND, PAUL B., Col. Vet. Med., Univ. Minnesota, St. Paul, Minn.**
lead poisoning; occupational hazards; chelating agents; radiolabeled lead

PHYSIOLOGICAL CHEMISTRY

AI-00224 **GILMOUR, C.M., Sch. Sci., Oregon State Univ., Corvallis, Ore.**
fungi..Streptomyces griseus; viruses..bacteriophage; culture media; amino acid; proteins; radiolabeled carbon; fractionation

AI-00253 **KRAMPITZ, LESTER O., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
thiamine pyrophosphate; oxidases..pyruvate oxidase; carboxylases..pyruvate carboxylase; transferases.. transketolase; phosphoketolase; acetoin; substitution reactions (chemistry); bacteria..Aerobacter aerogenes

AI-00563 **BARKER, HORACE A., Grad. Sch., Univ. California, Berkeley, Cal.**
vitamin B12 coenzymes; cobamides; adenosine; glutamate; isomerase; racemization; mesaconate; hydration reactions; bacteria..Clostridium; photochemistry; methylaspartic acid; lysine

AI-00737 **SLEEPER, BAYARD P., Sch. Agr., North Dakota State Univ., Fargo, N. Dak.**
fungi..Streptomyces; carbohydrases..cellulase; carbohydrases..amylases; chemical structure--biological activity; fractionation; enzymes..isoenzymes

AI-00848 **BURRIS, ROBERT H., Col. Agr., Univ. Wisconsin, Madison, Wis.**
bacteria; organic acids; radiolabeled carbon; stable isotope labeled nitrogen; microbial culture; nitrogen fixation; plants

AI-01028 **WYATT, GERARD R., Yale Univ., New Haven, Conn.**
life cycle; growth hormones; injury; proteins; nucleic acids; carbohydrates

AI-01135 **KOBAYASHI, YUTAKA, Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.**
histamine; oxidoreductases..diamine oxidase; decarboxylases..histidine decarboxylase; amine; binding; heparin; intestines; stress; bioassay; pregnancy

AI-01144 **WANG, CHIN H., Sch. Sci., Oregon State Univ., Corvallis, Ore.**
bacteria..Corynebacterium; bacteria..Xanthomonas; carbohydrates; carbon dioxide; fungi..Candida; microorganisms; radiolabeled carbon; taxonomy; tissue respiration

AI-01417 **WILSON, PERRY W., Grad. Sch., Univ. Wisconsin, Madison, Wis.**
enzymes; nitrogen fixation; cell--free systems; bacteria.. Bacillus polymyxa; bacteria..Aerobacter aerogenes; bacteria..Azotobacter vinelandii; bacteria..Bacillus macerans; bacteria..Klebsiella

AI-01456 **ATKINSON, DANIEL E., Grad. Sch., Univ. California, Los Angeles, Cal.**
bacteria..Escherichia coli; nitrites; nitrogen; reductases; sulfites

AI-01493 **BLUMENTHAL, HAROLD J., Med. Sch., Univ. Michigan, Ann Arbor, Mich.**
carbohydrates; blood cells..neutrophil leukocytes; bacteria. .Bacillus cereus; bacteria..Staphylococcus aureus; bacteria ..Escherichia coli; spores; aldolases..3-deoxyhexulosaric aldolase; reductases..tartronaldehydic reductase; virulence.. microorganisms

AI-01728 **WACHSMAN, JOSEPH T., Grad. Sch., Univ. Illinois, Urbana, Ill.**
bacteria..Bacillus megaterium; auxotrophs; cell components..cell wall; cell components..ribosomes; 5--fluorouracil

AI-01808 **STANIER, ROGER Y., Univ. California, Berkeley, Cal.**
β--hydroxybutyric acid; polyhydroxy compounds; enzymes; bacteria..Pseudomonas; bacteria..Moraxella; aromatic compounds

AI-01889 **HIGGINS, EDWIN S., Med. Col. Virginia, Richmond, Va.**
fungi..Aspergillus niger; growth inhibitors; dinitrobenzene; genetic strains; detoxication; reduction; polysaccharides; nitroaryl compounds; toxicology; fungicides

(contd)

PHYSIOLOGICAL CHEMISTRY (CONTD)

AI-02011 GORINI, LUIGI, Sch. Med., Harvard Univ., Boston, Mass.
bacteria..Escherichia coli; arginine; enzymes inhibitors; transacylases..acetyl CoA : L-glutamate N-acetyltransferase; phosphotransferases..ATP : carbamate phosphotransferase; chemical structure; transcarbamylases; ornithine; proteases; bacteria..Sarcina

AI-02218 FRENKEL, ALBERT W., Grad. Sch., Univ. Minnesota, Minneapolis, Minn.
bacteria..Rhodospirillum rubrum; chromatophores; hydrogenases; photochemistry; oxidation-reduction; electron transport; phosphorylation; chemical structure; bacteria.. Rhodospirillum molischianum

AI-02353 CATLIN, B. WESLEY, Sch. Med., Marquette Univ., Milwaukee, Wis.
bacteria..Moraxella; bacteria..Neisseria; deoxyribonucleic acid; drugs resistance; genetic strains; nasopharynx; streptomycin; transformation

AI-02432 KAPLAN, ALBERT S., Sch. Med., Albert Einstein Med. Cr., Philadelphia, Pa.
cytopathogenic effect, viral; genetics; host-virus; nucleic acids; viruses, pseudorabies virus

AI-02443 PINCHOT, GIFFORD B., Grad. Sch., Johns Hopkins Univ., Baltimore, Md.
bacteria; high energy compounds; oxidative phosphorylation

AI-02530 GRULA, EDWARD A., Oklahoma State Univ., Stillwater, Okla.
bacteria..Micrococcus lysodeikticus; cell components.. cell wall; glycine; polypeptides..unnatural polypeptides; D-serine

AI-02838 LEDERER, EDGAR, Institut de Chimie des Substances Naturelles, Gif sur Yvette, France
bacteria..Mycobacterium; bacteria..Corynebacterium; wax D; phospholipids; glycolipids; chemical structure--biological activity; immunology; diaminopimelic acid; peptides; fungi..Streptomyces; fungi..Nocardia; lipids

AI-02971 DEMOSS, RALPH D., Grad. Sch., Univ. Illinois, Urbana, Ill.
cell components..ribosomes; chemical structure--biological activity; carbon--carbon hydrolases..tryptophanase

AI-03046 WEBER, MORTON M., Sch. Med., St. Louis Univ., St. Louis, Mo.
tissue respiration; electron transport; flavin; bacteria.. Mycobacterium phlei; vitamin K1; vitamin K3; growth inhibitors; free radicals; NADH2; oxidation; enzymes; fractionation; naphthosemiquinones; novobiocin; protozoa..Crithidia fasciculata; ubiquinone

AI-03484 FEENEY, ROBERT E., Grad. Sch., Univ. California, Davis, Cal.
proteins; egg proteins; blood proteins; milk; semen; enzyme inhibitors..trypsin inhibitors; enzyme inhibitors.. chymotrypsin inhibitors; lima beans; transferrin; phylogeny; genetic strains; reaction sites

AI-03548 SHAW, DOUGLAS R.D., Sch. Med., Otago Univ., Dunedin, New Zealand
polymers; teichoic acid; bacteria; alditols

AI-03603 ADLER, JULIUS, Sch. Agric., Univ. Wisconsin, Madison, Wis.
latent virus diseases; immunity; lysogeny; deoxyribonucleic acid; deoxyribonucleic acid replication; viruses, bacteriophage; bacteria

AI-03865 GOODMAN, FRED, Stern Col. Women, Yeshiva Univ., N.Y.C.
viruses..coliphage; 5-fluorouracil; growth inhibitors; fractionation; virus replication; nucleic acids

AI-03866 AJL, SAMUEL J., A. Einstein Med. Cr., Philadelphia, Pa.
bacteria; bacteria..Pasteurella pestis; dehydrogenases isocitritase; enzymes; heterotrophy; ketoacid-lyases malate synthetase; respiratory enzymes; toxins

AI-03963 COHEN, SEYMOUR S., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
bacteria..Escherichia coli; deoxyribonucleic acid; deoxyribonucleotides; growth (microorganisms); hydroxymethylases..deoxycytidylate hydroxymethylase; polymers; ribonucleic acid; viruses..bacteriophage

AI-04207 SZULMAJSTER, JEKISIEL, Lab. d'Enzymologie, Natl. Res. Sci. Cr., Gif/Yvette, France
bacteria..Bacillus subtilis; enzymes; mutations; spores

AI-04409 PARDEE, ARTHUR B., Grad. Sch., Princeton Univ., Princeton, N.J.
carbohydrases..β-galactosidase; decarboxylases.. tryptophanase; pyrimidine; metabolites; antimetabolites; mutations; bacteria; radiation effects; ultraviolet rays

AI-04410 SMITH, PAUL F., Sch. Med., Univ. South Dakota, Vermillion, S.D.
bacteria..Mycoplasma; cell components..cell membrane; chemical structure--biological activity; lipids; membrane permeability

AI-04495 PANOS, CHARLES, Albert Einstein Med. Cr., Philadelphia, Pa.
bacteria..L-form bacteria; bacteria..Streptococcus group A beta hemolytic; cell components; fatty acids; microbial culture; penicillin

AI-04502 FRANK, LEONARD H., Sch. Hyg., Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
auxotrophs; bacteria..Escherichia coli; oxidation; proline

AI-04586 MATSUSHIMA, YOSHIO, Col. Sci., Osaka Univ., Osaka, Japan
bacteria; cell components..cell wall; N-acetylmuramic acid; N-acetylglucosamine; carbohydrases..lysozyme; synthesis; chemical structure; polysaccharides

AI-04647 CAMPBELL, BENEDICT J., Sch. Med., Univ. Missouri, Columbia, Mo.
amino acid sequence; bactericides; blood vessels; chemical structure--biological activity; muscle..smooth muscle; polypeptides; proteases; skin

AI-04712 MILLER, WILLIAM T., Sch. Chem., Regis College, Denver, Colo.
bacteria..Mycobacterium tuberculosis; chemical structure--biological activity; fatty acids; growth (microorganisms); 10-methyloctadecanoic acid; trans-2,4,6-trimethyl-2-tetracosenoic acid; 2,4,6-trimethyloctacosanoic acid; vaccines..tuberculosis vaccines; virulence (microorganisms)

AI-04777 HAYASHI, JAMES A., Presby. St. Luke's Hosp., Chicago, Ill.
bacteria..Streptococcus group A; cell components..cell wall; molecular structure; polysaccharides; mucopeptides; immunology..antigens; serotypes

AI-04789 SAUKKONEN, JUSSI J., State Serum Inst., Helsinki, Finland
bacteria..Staphylococcus aureus; cell components..cell wall; teichoic acid; radiolabeled; penicillin; nucleotides; mucopeptides

AI-04801 VISHNIAC, WOLF, Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.
autotrophy; photosynthesis; bacteria; sulfur; hydrogenases

AI-04820 McNALL, EARL G., Sch. Med., Univ. Southern California, Los Angeles, Cal.
fungi..dermatophytes; cell components..cell wall; polysaccharides; chemical structure; enzymes; radiolabeled; immunological tests

AI-04855 WIEBERS, JOYCE L., Grad. Sch., Purdue Univ., Lafayette, Ind.
enzymes; enzymes feedback; fungi, Neurospora; genetic strains; methionine; radiolabeled carbon; radiolabeled sulfur; transsulfurases

AI-04865 MORTENSON, LEONARD E., Grad. Sch., Purdue Univ., Lafayette, Ind.
bacteria..Clostridium; electron transport; enzymes; nitrogen compounds; nitrogen fixation; oxidation-reduction

AI-04890 ANDERSON, RICHARD L., Sch. Natural Sci., Agr., Michigan State Univ., East Lansing, Mich.
hexoses; bacteria..Aerobacter aerogenes; enzymes; phosphorylation; epimerization; oxidation--reduction; galactose; glucose; mannose

AI-04948 LENNARZ, WILLIAM J., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
bacteria..Gram-negative bacteria; bacteria..L-form bacteria; cell components..cell wall; cell components.. protoplasm; chemical structure; lipids

AI-04954 CARUBELLI, RAUL, Oklahoma Med. Res. Inst., Oklahoma City, Okla.
brain; carbohydrases..neuraminidase; chemical structure--biological activity; gastrointestinal system; glycoproteins; liver; mammary gland; mucolipids; oligosaccharides

AI-04967 HABER, EDGAR, Massachusetts Gen. Hosp., Boston, Mass.
immunology..antibodies; amino acid sequence; molecular rearrangement; proteins denaturation; oxidation-reduction; reaction sites; disulfide bonds

AI-05036 MENDICINO, JOSEPH F., Col. Agr., Ohio State Univ., Columbus, Ohio
cell-free systems; gamma globulin; monosaccharides; polymers; polysaccharides; protein-bound carbohydrates; radiolabeled; reaction sites; reticuloendothelial system

AI-05044 SHOCKMAN, GERALD D., Sch. Med., Temple Univ., Philadelphia, Pa.
bacteria..Streptococcus faecalis; cell components..cell wall; cell components..cell membrane; chemical structure--biological activity; nutrients; radiolabeled; fractionation; teichoic acid; polysaccharides; mucopeptides; phospholipids; proteins; carbohydrates

AI-05079 GOLDFINE, HOWARD, Sch. Med., Harvard Univ., Boston, Mass.
lipids; bacteria..Clostridium; cell components; chemical structure--biological activity; plasmalogens; growth, microorganisms

AI-05152 HENDERSON, THOMAS R., Sch. Med., Univ. Arkansas, Little Rock, Ark.
fungi..Aspergillus niger; cell differentiation; spores; deoxyribonucleic acid; molecular structure; functional groups; genetic strains; nucleic acids denaturation; deamination; ultrasonics; mutations

AI-05213 IVLER, DANIEL, Sch. Med., Univ. Southern California, Los Angeles, Cal.
bacteria..Staphylococcus; genetic strains; staphylocoagulase; tissue respiration

AI-05388 FOX, MAURICE S., Massachusetts Inst. Tech., Cambridge, Mass.
bacteria..Diplococcus pneumoniae; deoxyribonucleic acid; deuterium; genetics..genome; genetics..recombination; molecular structure; transformation

AI-05397 HERBST, EDWARD J., Grad. Sch., Univ. New Hampshire, Durham, N.H.
putrescine; spermidine; spermine; nucleic acids; growth factors; bacteria; molecular structure; nucleases; ribonucleic acid

AI-05406 BECK, RAYMOND W., Col. Liberal Arts, Univ. Tennessee, Knoxville, Tenn.
bacteria..Streptococcus faecalis; proteases; carbohydrates; arginine; fermentation; galactose; lactose; microbial culture

AI-05520 **PREISS, JACK**, Col. Agr., Univ. California, Davis, Cal.
bacteria..Arthrobacter; phosphotransferases..sugar nucleotide transferases; cell--free systems; radiolabeled; polysaccharides; sugar nucleotides; chemical structure; phosphorylases..glycogen phosphorylase; adenosine diphosphate; spinach; glycogen; cell components..chloroplasts

AI-05540 **BARTNICKI-GARCIA, SALOMON**, Univ. California, Riverside, Cal.
fungi..Mucor rouxii; dimorphism (biology); cell components..cell wall; carbon dioxide fixation; D-mannans; enzymes; metal; chemical structure; metabolites; cell differentiation

AI-05543 **LARSON, A.D.**, Sch. Arts, Sci., Louisiana State Univ., Baton Rouge, La.
bacteria..Listeria monocytogenes; genetic strains; growth, microorganisms; fatty acids; enzymes

AI-05637 **BRODIE, ARNOLD F.**, Sch. Med., Univ. Southern Calif. Los Angeles, California
bacteria..Mycobacterium phlei; oxidative phosphorylation; respiratory enzymes; electron transport; vitamin K1; naphthoquinones; photochemistry; chromanol; reaction sites

AI-05638 **DIMOND, A.E.**, Connecticut Agr. Exptl. Station, New Haven, Conn.
fungi..Verticillium albo-atrum; vascular wilt diseases; plants..roots; chlorogenic acid; phenol oxidases; chemical structure--biological activity; enzymes substrate; potato; immunity

AI-05878 **REMINGTON, JACK S.**, Palo Alto Med. Res. Fdn., Palo Alto, Cal.
laboratory facilities; protozoa..Toxoplasma gondii; immunology..antigen--antibody reactions; proteases.. chymotrypsin; nucleic acids; enzymes complexes; immunology..antibodies; reaction sites; amino acid sequence; immunity; instrumentation

AI-05992 **TOURTELLOTTE, MARK E.**, Agricultural Experiment Station, Storrs, Conn.
fatty acids; lipids; chemical structure--biological activity; bacteria..Mycoplasma; membrane permeability and transport; cholesterol; fractionation; cell-free systems; proteins

AI-06045 **RICHARDSON, CHARLES C.**, Sch. Med., Harvard Univ., Boston, Mass.
bacteria..Escherichia coli; deoxyribonucleic acid; deoxyribonucleic acid replication; deuterium; functional groups; laboratory facilities; molecular structure; nucleases; phosphatases..DNA phosphatase-exonuclease; radiolabeled carbon; radiolabeled phosphorus; stable isotope labeled nitrogen; tritium; viruses..Bacteriophage

AI-06074 **BACILA, METRY**, Inst. Bioquimica, Univ. Parana, Curitiba, Parana, Brazil
mollusks; phosphatases; carbohydrates; host--parasite; trematodes..Schistosoma mansoni; enzymes; pigments; cellulose; chemical structure--biological activity

AI-06167 **DeMOSS, RALPH D.**, Grad. Sch., Univ. Illinois, Urbana, Ill.
glucosamine; pentoses; gluconates; oxidoreductases.. dehydrogenases; aldolases; cell components..cell wall; bacteria..Leuconostoc; bacteria..lactic acid bacteria

AI-06191 **NAJJAR, VICTOR A.**, Vanderbilt Univ., Med. Sch., Nashville, Tenn.
research programs; phosphomutases..phosphoglucomutase; amino acid sequence; functional groups; fractionation; blood proteins..plasma proteins; gamma globulin; cell components..cell membrane; membrane permeability and transport; cell types; isohemagglutinogen

AI-06192 **LANIGAN, SISTER M. REGINA**, Rosary Hill Col., Buffalo, N.Y.
bacteria..Clostridium; sporogenesis; nutrients; microbial culture; enzymes; dipicolinic acid; ferredoxin

AI-06280 **HARSHMAN, SIDNEY**, Vanderbilt Univ. Med. Sch., Nashville, Tenn.
immunology..hapten; immunology..antigen--antibody reactions; chemical structure--biological activity; liver; lymphatic tissue; ribonucleic acid; peptides; radiolabeled carbon; radiolabeled phosphorus; radiolabeled sulfur

AI-06601 **OTTOLENGHI, ABRAMO C.**, Ohio State Univ., Columbus, Ohio
phospholipases; bacteria..Bacillus cereus; toxins; hemolysis; enzymes substrate complex; fractionation

AI-06663 **CHUNG, ALBERT E.**, Sch. Med., Univ. Colorado, Denver, Colo.
fatty acids; cyclopropane; ligases; bacteria.. Clostridium butyricum

AI-06766 **HARDMAN, JOHN K.**, Stanford Univ., Stanford, Cal.
dehydratases..tryptophan synthetase; chemical structure--biological activity; amino acids; bacteria..Escherichia coli

AI-06792 **BLUMENTHAL, HAROLD J.**, Sch. Med., Loyola Univ., Hines, Ill.
bacteria..Bacillus cereus; bacteria..Staphylococcus aureus; Krebs cycle; hexose monophosphate pathway; glycolysis..Embden--Meyerhof pathway; glucose; virulence, microorganisms; blood cells..leukocytes; diabetes; phagocytosis

AI-06795 **GOLDSTEIN, IRWIN J.**, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
concanavalin--A; precipitin technique; polysaccharides; molecular structure; binding; reaction sites; hemagglutination; chemical structure--biological activity; blood groups

AM-00028 **SCHUBERT, MAXWELL**, Sch. Med., New York Univ., N.Y.C.
connective tissue; mucoproteins; chondroitin sulfate; cartilage; carbohydrases..hyaluronidase; pregnancy.. umbilical cord; chemical structure; proteases.. trypsin; keratosulfate

AM-00512 **ROSEMAN, SAUL**, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
carbohydrates; connective tissue; mucopolysaccharides

AM-00531 **LARDY, HENRY A.**, Inst. Enzyme Res., Univ. Wisconsin, Madison, Wis.
carbohydrates; cell components..mitochondria; coenzyme A ..acetyl coenzyme A; coenzyme A..citramalyl coenzyme A; enzymes; itaconic acid; oxidation phosphorylation; pyruvate

AM-00562 **GUNSALUS, I.C.**, Grad. Sch., Univ. Illinois, Urbana, Ill.
acid--thiol ligases..succinate : CoA ligase (ADP); glucose; lipoic acid; n--caprylic acid; sulfation; bacteria..Escherichia coli; flavoprotein enzymes; lactones; decarboxylases..amino acid decarboxylases; pyridoxal phosphate; coenzymes; glycine

AM-00570 **MEYER, KARL**, Col. Phys., Surg., Columbia Univ., N.Y.C.
bone; cartilage; chemical structure; chondroitin sulfate; connective tissue; enzymes; ground substance; heparin; heparitin sulfate; keratosulfate; methylation; mucopolysaccharides; oligosaccharides; ossification; proteins

AM-00709 **DAUBEN, WILLIAM G.**, Univ. California, Berkeley, Cal.
alkaloids; natural products; radiation effects; steroids; terpenes; ultraviolet rays

AM-00725 **BENTLEY, RONALD**, Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
anomers; cell; dehydrogenases..pyranose dehydrogenases; isomerases..mutarotase; lactones; oxidation; pyranoses

AM-00740 **DE MEIO, ROMANO H.**, Jefferson Med. Col., Philadelphia, Pa.
mactin; sulfation; nucleotides; mucopolysaccharides; heparin

AM-00754 **ARTOM, CAMILLO**, Sch. Med., Wake Forest Col., Winston-Salem, North Carolina
phospholipids; calcium; liver; enzymes; methylation

AM-00779 **MANDL, INES**, Col. Phys., Surg., Columbia Univ., N.Y.C.
bacteria..Clostridium histolyticum; collagen; molecular structure; proteases..collagenase

AM-00803 **DICKMAN, SHERMAN R.**, Sch. Med., Univ. Utah, Salt Lake City, Utah
cell-free systems; cell components..microsomes; cell components..ribosomes; pancreas; radiolabeled carbon; amino acid; proteases..chymotrypsinogen; phenylalanine; nucleases..ribonucleases; proteins; proteases..trypsinogen; tritium; cell components..cell nucleus; ribonucleic acid; transfer ribonucleic acid

AM-00818 **SHETLAR, M.R.**, Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
aging; arthritis; glycoproteins; growth; radiolabeled carbon

AM-00884 **BALLOU, CLINTON E.**, Grad. Sch., Univ. California, Berkeley, Cal.
brain; carbohydrates; deacylation; glycerin; inositol; inositol phosphates; lipids; phospholipids; radiolabeled phosphorus

AM-01005 **KIDDER, GEORGE W.**, Amherst Col., Amherst, Mass.
pteridines; protozoa..Tetrahymena; protozoa..Crithidia; coenzyme Q; catecholamines; serotonin; lipids

AM-01060 **MUNTZ, JOHN A.**, Albany Med. Col., Albany, N.Y.
carbohydrates; diabetes; fractionation; fructose; glucose; liver; phosphates..phosphoric esters

AM-01101 **SHEMIN, DAVID**, Col. Phys., Surg., Columbia Univ., New York, N.Y.
porphyrins; vitamin B12; enzymes; bacteria.. Rhodopseudomonas spheroides; bacteria..Rhodospirillum rubrum; delta--aminolevulinic acid; radiolabeled carbon; methylation; colicines

AM-01107 **TANG, JORDAN J.**, Oklahoma Med. Res. Inst., Oklahoma City, Okla.
amino acid; molecular structure; mucous membrane; proteases..gastricsin; proteases..pepsin; stomach.. gastric juice

AM-01128 **HOFMANN, KLAUS**, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
polypeptides; ACTH; MSH; chemical structure--biological activity; pituitary gland; stress; synthesis; nucleases.. ribonuclease; pancreas

AM-01270 **GOULD, BERNARD S.**, Sch. Sci., Mass. Inst., Tech., Cambridge, Mass.
amino acyl soluble ribonucleic acid; ascorbic acid; cell-free systems; collagen; hydroxylysine; hydroxyproline; implants; injury..wound healing; lysine; proline; radiolabeled carbon

AM-01278 **OLSON, JAMES A.**, Sch. Med., Univ. Florida, Gainesville, Fla.
vitamin A; radiolabeled; carotenoids; cell--free systems; bile acids and salts; chemical bonds..bond cleavage; intestinal absorption; carotenes; enzymes; aluminum oxide; fungi..Phycomycetes

(contd)

PHYSIOLOGICAL CHEMISTRY (CONTD)

AM-01383 PORTER, JOHN W., Sch. Med., Univ. Wisconsin, Madison, Wis.
carotenes; enzymes; squalene; farnesyl pyrophosphate; cell components..plastids; radiolabeled carbon; polyenes; carotenoids; cell components..organelles; plants; lycopene; geranyl pyrophosphate

AM-01418 HASSID, WILLIAM Z., Grad. Sch., Univ. California, Berkeley, Cal.
carbohydrates; plants; polysaccharides; algae; lactose; enzymes; nucleotides

AM-01465 FRITZ, IRVING B., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
carnitine; fatty acids; triglycerides; tritium; tissue respiration; phospholipids; chemical structure--biological activity

AM-01506 TAPLEY, DONALD F., Sch. Phys., Surg., Columbia Univ., N.Y.C.
amino acid; chemical structure--biological activity; intestines..small intestine; thyroxine analogs; transferases..glucuronyl transferase

AM-01845 OCHOA, SEVERO, New York Univ. Med. Cr., N.Y.C.
propionic acid; carboxylases..propionyl carboxylase; isomerases..methylmalonyl isomerase; ribonucleic acid; bacteria; nucleoside 5'-diphosphates; molecular structure; radiolabeled; amino acid; cell components..cytoplasm; ribonucleoproteins; proteins; ribopolynucleotides; synthesis; phosphotransferases..nucleoside diphosphate polynucleotide nucleotidyl transferase

AM-01897 ALTSHULER, CHARLES H., St. Joseph's Hosp., Milwaukee, Wis.
bacteria; cell-free systems; dehydrogenases..uridine diphosphate glucose dehydrogenase; hyaluronic acid; mucopolysaccharides; nucleotides; phosphorylases..pyrophosphorylases; phosphotransferases..ATP : nucleoside diphosphate phosphotransferase; synthesis

AM-01982 DODGSON, KENNETH S., University Col., Cardiff, Great Britain
sulfates..sulfuric esters; sulfatases; aminotransferases..tyrosine transaminase; hydroxyamino acids; aromatic amino acids; peptides; blood coagulation..fibrinogen; estrogens; phenols; steroids; tyrosine; threonine; serine; microorganisms

AM-02135 HARARY, ISAAC, Cr. Hlth. Sci., Univ. California, Los Angeles, Cal.
acyl phosphates; adenosine triphosphate; cell components..mitochondria; cell differentiation; enzymes; glucose; glycolysis; oxidative phosphorylation; Pasteur effect; respiration; tissue culture

AM-02138 SACKS, JACOB, Grad. Sch., Univ. Arkansas, Fayetteville, Ark.
hormones; nucleotides; diabetes..alloxan diabetes; hypophysectomy; adenosine phosphates; adenine

AM-02189 MURPHY, JOHN R., Sch. Med., Western Reserve Univ., Cleveland, Ohio
adenosine triphosphate; aging; blood cells..erythrocytes; blood disorders; cholesterol; Embden-Meyerhof pathway; genetics; glucose; hexose monophosphate pathway; membrane permeability; NADPH2; osmotic pressure; spherocytosis

AM-02438 EICHEL, HERBERT J., Hahnemann Med. Col., Philadelphia, Pa.
adipose tissue; diet; hormones; oxidative phosphorylation; respiratory enzymes

AM-02478 KUCHINSKAS, EDWARD J., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
cysteine; metal chelates; penicillamine; thiothreonine; reaction rates (chemistry)..formation constants; thiazolidine; radiolabeled carbon; S--methylcysteine; sulfoxides; methionine; equilibrium constants; isomers; chemical structure

AM-02479 WEISSMANN, BERNARD, Sch. Med., Univ. Illinois, Chicago, Ill.
mucopolysaccharides; amidases..N--acetylglucosaminidases; chemical structure--biological activity; hyaluronic acid; synthesis; glycosides; mannosamine

AM-02605 JENSEN, ROBERT G., Sch. Agr., Univ. Connecticut, Storrs, Conn.
lipase..pregastric esterase; milk; pancreas; hydrolysis; triglycerides; isomers; stereochemistry; fatty acids; synthesis

AM-02609 MEHL, JOHN W., Univ. Southern California, Los Angeles, Cal.
amino acid; carbohydrates; chemical structure; enzymes inhibitors..trypsin inhibitors; pancreas

AM-02712 ARCHIBALD, REGINALD M., The Rockefeller Inst., N.Y.C.
bone; cartilage; thyroid hormones; estrogens; peroxidases

AM-02773 SCHAPIRA, GEORGES, Laboratoire de Recherches de Biochimie Medicale, Paris, France
hemoglobin; proteolysis; peptides; blood cells..erythrocytes; cell age; cell-free systems; cell components..microsomes; blood cells..reticulocytes; enzymes

AM-02794 FRANKEL, SAM, Jewish Hosp., St. Louis, Mo.
amidases..arginase; aminotransferases..alanine transaminase; aminotransferases..aspartate transaminase; body composition; body fluids; dehydrogenases..lactate dehydrogenases; electrolytes; glucose; lipids; nitrogen; psoriasis; skin; sugar

AM-02863 BLAKE, CLARA O., Brooklyn Col., New York, N.Y.
nicotinic acid; plants..roots; corn; tissue culture; chromatography

AM-03014 ISSELBACHER, KURT J., Massachusetts Gen. Hosp., Boston, Mass.
lipids; intestinal absorption; bile acids and salts; chylomicrons; glycerin; glycerides

AM-03067 KATSOYANNIS, PANAYOTIS G., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
chemical structure--biological activity; insulin; molecular structure; peptides; pituitary hormones; synthesis

AM-03156 BROQUIST, HARRY P., Grad. Col., Univ. Illinois, Urbana, Ill.
enzymes; fungi..neurospora; high energy compounds; lysine

AM-03214 COON, MINOR J., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
urocanic acid; urocanase; pyridoxal--5--phosphate; hydration reactions; hydrolases..imidazolone propionic hydrolase

AM-03373 LACY, PAUL E., Sch. Med., Washington Univ., St. Louis, Mo.
cortisone; dehydrogenases; enzymes; glucagon; glucose; hexose monophosphate pathway; hyperglycemia; insulin; islands of Langerhans; neoplastic cells; pancreas; tolbutamide

AM-03404 HASTINGS, A. BAIRD, Scripps Clin. Res. Fdn., La Jolla, Cal.
acid-base equilibrium; bicarbonates; carbohydrates; carbon dioxide; hydrogen-ion concentration; liver; phospholipids; radiolabeled carbon

AM-03428 RATNER, SARAH, Pub. Hlth. Res. Inst., New York, N.Y.
nitrogen; urea; carbon--nitrogen ligases..L--citrulline; L--asparate ligase (AMP); argininosuccinic acid anhydride; chemical structure; oxidation; amidine--lyases..argininosuccinate--lyases; crystallization

AM-03429 BERNSTEIN, I.A., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
skin; phosphogluconate; 7--phosphoheptonic acid; enzymes; decarboxylation; reduction; NADP(H2)

AM-03464 CHAYKIN, STERLING, Grad. Sch., Univ. California, Davis, Cal.
nicotinamide; cell components..microsomes; enzymes; NADPH2 linked enzymes; liver; oxygen; nicotinamide--N--oxide

AM-03504 KUMAR, SOMA, Grad. Sch., Georgetown Univ., Washington, D.C.
mammary gland; fats; radiolabeled carbon; β-hydroxybutyric acid; lactation; fatty acids; coenzyme; enzymes

AM-03658 HORNER, WILLIAM H., Sch. Med., Dent., Georgetown Univ., Washington, D.C.
amidinotransferases; creatine; guanidines; guanidinoacetic acid

AM-03682 KATZ, JOSEPH, Cedars Lebanon Hosp., Los Angeles, Cal.
mammary gland; propionic acid; liver; radiolabeled carbon; pentose pathway; glucose

AM-03718 DEKKER, EUGENE E., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
gamma--hydroxyglutamic acid; enzymes; α--ketoglutarate; α-ketohydroxyglutarate; glutamine; glyoxylate; pyruvate; alanine; carbohydrases..amylase; α-hydroxyamino acids

AM-03737 OLSON, ROBERT E., Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
coenzyme Q; dietary deficiency; fasting; nutrition; pantothenic acid; phenylalanine; radiolabeled carbon; tocopherol; vitamin A; vitamin K

AM-03850 HOUCK, JOHN C., Children's Hosp. Res. Fdn., Washington, D.C.
hydroxyproline; pancreas; proteases..collagenase; tropocollagen; viscosity

AM-03914 COLOWICK, SIDNEY P., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
phosphorylation; carbohydrates; glucose; hormones; phosphotransferases..ATP : D--hexose 6--phosphotransferase; chemical structure--biological activity; proteins; fungi yeasts

AM-04040 WESTPHAL, ULRICH F., Sch. Med., Univ. Louisville, Louisville, Ky.
blood proteins..serum proteins; binding; corticosteroid binding globulins; albumins..serum albumins; steroid hormones

AM-04056 EISENBERG, MAX A., Sch. Med., Col. Phys., Surg., Columbia Univ., New York, N.Y.
biotin; pimelic acid; vitamers

AM-04315 DAVIDSON, EUGENE A., Sch. Med., Duke Univ., Durham, N.C.
age; connective tissue; environment; enzymes; hormones; mucopolysaccharides; polymers

AM-04346 SIMKIN, JULIUS L., Marischal Col., Univ. Aberdeen, Aberdeen, Scotland
glycoproteins; radiolabeled; immunology; molecular structure; cell components..microsomes; liver

AM-04389 ROSEN, FRED, Health Research, Inc., Buffalo, N.Y.
adrenal cortex hormones; aminotransferases..alanine transaminase; glyconeogenesis; glycogen; pregnancy; hydrocortisone; aminotransferases..tyrosine--α--ketoglutarate transaminase; amidases..tryptophan pyrrolase; puromycin; anctinomycin D; ribonucleic acid; dehydratases..serine hydrolyase, deaminating

AM-04585 McCORMICK, DONALD B., Grad. Sch. Nutr., Cornell Univ., Ithaca, N.Y.
phosphotransferases..ATP:riboflavin--5'--phosphotransferase; riboflavin analogs; isoalloxazine; flavin mononucleotides; phosphatases; enzyme substrate; enzyme substrate analogs; synthesis; oxidoreductases..cytochrome C oxidase; oxidoreductases..D--amino acid oxidase

AM-04619 PIGMAN, WARD, New York Med. Col., N.Y.C.
connective tissue; oxidation-reduction; depolymerization; hyaluronic acid; free radicals; membrane permeability and transport; epithelium; mucin; skin

AM-04662 KAMIN, HENRY, Sch. Med., Duke Univ., Durham, N.C.
cell components..mitochondria; NADP linked enzymes; reductases, cytochrome C reductase; reductases, cytochrome B5 reductases; cell components..microsomes; flavoprotein enzymes

AM-04663 CRANE, FREDERICK L., Grad. Sch., Purdue Univ., Lafayette, Ind.
lipids; cytochrome C; phospholipids; peroxidation; heart; cell components..mitochondria; oxidoreductases..cytochrome oxidases; proteolipids; phospholipase

AM-04973 GREGORY, JOHN D., Rockefeller Inst., N.Y.C.
cartilage; chondroitin sulfate; mucoproteins

AM-04975 MANDL, INES, Col. Phys., Surg., Columbia Univ., N.Y.C.
elastin; molecular structure; proteases..elastase; bacteria

AM-05121 GLOMSET, JOHN A., Sch. Med., Univ. Washington, Seattle, Wash.
cholesterol; lipoproteins; transacylases, lecithin-cholesterol transesterases; immunology..antibodies; electrophoresis; chromatography; primates..monkeys; lysolecithins

AM-05156 KUMAR, SOMA, Grad. Sch., Georgetown Univ., Washington, D.C.
triglycerides; fatty acids; mammary gland

AM-05165 SCHLENK, HERMANN, Hormel Inst., Austin, Minn.
algae; fatty acids; microorganisms; radiolabeled carbon; synthesis; unsaturated compounds

AM-05195 YOUNT, RALPH G., Grad. Sch., Washington State Univ., Pullman, Wash.
myosin; adenosine triphosphate analogs; synthesis; meromyosin; actomyosin; muscle contraction; muscle.. myofibrils; nucleotides analogs

AM-05269 REITHEL, FRANCIS J., Grad. Sch., Univ. Oregon, Eugene, Ore.
instrumentation; lactose; mammary gland

AM-05282 MORTON, RICHARD A., Univ. Liverpool, Liverpool, England
ergosterol; lipids; microorganisms; ubiquinone; dolichol; ubichromenol; cell components; tissue; dietary deficiency; radiolabeled carbon; tritium; mevalonic acid; acetates; electron transport; cell components..mitochondria; cell components..chloroplasts; intestinal absorption

AM-05310 LANDS, WILLIAM E.M., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
acylation; enzymes; esters; fatty acids; glycerides; phospholipids; transferases

AM-05311 PARKER, CHARLES J., Jr., Col. Med., Wayne State Univ., Detroit, Mich.
M--B factor; muscle..myofibrils; actomyosin

AM-05338 DRAUS, FRANK J., Sch. Dent., Univ. Pittsburgh, Pittsburgh, Pa.
molecular structure; mucoproteins; salivary glands; viscosity

AM-05410 TEPPERMAN, JAY, Res. Fdn., State Univ. N.Y., Syracuse, New York
liver; dehydrogenases..glucose-6-phosphate dehydrogenase; diet; enzymes

AM-05507 KALCKAR, HERMAN M., Massachusetts Gen. Hosp., Boston, Mass.
bacteria; carbohydrates; enzymes; genetics..genes; immunology..antigens; nucleotides; reaction sites

AM-05510 PRINCIOTTO, JOSEPH V., Sch. Med., Dent., Georgetown Univ., Washington, D.C.
phosphatases..alkaline phosphatase; electrophoresis; immunology..antibodies; enzymes inhibitors; bone; immunology..antigens

AM-05563 TRUJILLO, JOSEFINA C., Scripps Clin. and Res. Fdn., La Jolla, Cal.
cholesterol; enzymes; chemotherapy; atherosclerosis; catalase

AM-05609 TAPPEL, ALOYS L., Sch. Agr., Univ. California, Davis, Cal.
cell components..lysosomes; muscular dystrophy; cell components..mitochondria; cell components..cell membranes; fatty acids; injuries..contusions; genetics; hemolysis; chemical structure; necrosis; phospholipids; radiation effects; enzymes

AM-05639 KALCKAR, HERMAN M., Massachusetts Gen. Hosp., Boston, Mass.
bacteria; carbohydrates; fibroblasts; galactose; galactosemia; genetics, genes; glucose; growth, microorganisms; isomerases..uridine diphosphogalactose-4-epimerase; phosphotransferases..UTP : α-D-galactose-1-phosphate uridylyltransferase; radiolabeled carbon; tissue culture

AM-05923 NASON, ALVIN, Johns Hopkins Univ., Baltimore, Md.
aging; ascorbic acid; cell-free systems; dietary deficiency; enzyme inhibitors; heart..myocardium; muscle..skeletal muscle; oxidative phosphorylation; peroxidation; reductases..cytochrome C reductase; selenium; succine acid; tocopherol; tocopherol analogs; vitamin A

AM-05924 MATOLTSY, ALEXANDER G., Sch. Med., Boston Univ., Boston, Mass.
keratins; tissue; molecular structure; skin; nails; hair

AM-05972 FARQUHAR, JOHN W., Sch. Med., Stanford Univ., Palo Alto, Cal.
blood cells..erythrocytes; lipids..plasma lipids; phosphoglycerides; fatty acids; diet; plasmalogens; aldehydes; membrane permeability and transport; lipoproteins

AM-06008 DITTMER, JOHN C., Col. Med., U. Kentucky, Lexington, Ky.
brain; enzymes; inositol phosphates; lipids; phospholipids; phosphorus; sphingolipids

AM-06015 CORNBLATH, MARVIN, Sch. Med., Univ. Illinois, Chicago, Ill.
blood cells..erythrocytes; children; diabetes; fructose-intolerance, hereditary; glucagon; glycogen; glycogenolysis; glycogenosis; glyconeogenesis; heart; infants, human..newborn; lactates; perfusion; phosphorylases; reserpine; uridine diphosphate glucose

AM-06027 LATIES, GEORGE G., Univ. California, Los Angeles, Cal.
tissue respiration; Krebs cycle; acetaldehyde; aging; enzymes inhibitors; coenzyme; cell components..mitochondria; plants; nucleic acids; proteins

AM-06094 PAIK, WOON K., Sch. Med., Univ. Ottawa, Ontario, Canada
enzymes; epsilon-N-methyl lysine; diet; lysine; gliadin

AM-06225 ONDARZA, RAUL N., Sch. Med., Nat'l. Univ. Mexico, Mexico, D. F.
nucleotides; amino acid sequence; chemical bonds; radiolabeled; proteins; peptides; liver

AM-06356 KIRKMAN, HENRY N., Jr., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
oxidoreductases..glucose-6-phosphate-dehydrogenase; genetics; ethnic groups; hemolytic anemia; starch gel electrophoresis; fluorescence

AM-06435 PLAUT, GERHARD W.E., Sch. Med., Univ. Utah, Salt Lake City, Utah
heart..myocardium; liver; phosphorylation; adenosine triphosphate; adenosine monophosphate; phosphotransferases; nucleoside triphosphates; enzymes; riboflavin; pteridines; oxidoreductases..isocitrate dehydrogenase; DPN linked enzymes

AM-06482 COLE, ROGER D., Grad. Sch., Univ. California, Berkeley, Cal.
chemical bonds; disulfide bonds; methylation; molecular structure; proteins; proteins denaturation

AM-06483 CONIGLIO, JOHN G., Med. Sch., Vanderbilt Univ., Nashville, Tenn.
arachidonic acid; brain; chemical structure; dietary deficiency; enzymes; fats; fatty acids; fetus; linoleic acid; mammary gland; pyridoxine; radiolabeled carbon; testis; unsaturated fatty acids

AM-06487 ELIEL, LEONARD P., Oklahoma Med. Res. Inst., Oklahoma City, Okla.
amino acid; aminoaciduria; bone disorders; chemical structure; enzymes inhibitors; laboratory facilities; metabolic diseases; mutations; neoplasms; oxidases..L-gulonolactone oxidase; parathyroid hormones; proteases.. gastricsin; proteases..pepsin; proteins; stomach..gastric juice

AM-06541 SHULL, KENNETH H., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
adenine; adenosine triphosphate; S-adenosyl-L-ethionine; ethionine; liver function; methionine; radiolabeled carbon; sex difference

AM-06725 KONO, TETSURO, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
carbohydrates; cell components..cell membrane; collagen; enzymes; insulin; membrane permeability; muscle; phospholipids

AM-06740 NAKADA, HENRY I., Univ. California, Santa Barbara, Cal.
blood groups; carbohydrases..glycosidases; heparin; microorganisms; mucopolysaccharides; soil

AM-06802 SHUSTER, CHARLES W., Sch. Med., Western Reserve Univ., Cleveland, Ohio
bacteria, Pseudomonas saccharophila; carbohydrates; enzymes; genetics, genes

AM-06803 ROBBINS, PHILLIPS W., Massachusetts Inst. Tech., Cambridge, Mass.
polysaccharides; galactose; mannose; glucose; nucleotides; bacteria..Salmonella; immunology..antigens; chemical structure; enzymes; viruses..bacteriophage; pseudouridine; radiolabeled carbon

AM-06830 CORI, CARL F., Sch. Med., Washington Univ., St. Louis, Mo.
glycolysis; muscle; phosphorylases

AM-06853 WEBSTER, LESLIE T., Jr., University Hosp., Cleveland, Ohio
hepatic coma; acid--thiol ligases..acetate: CoA ligase (AMP); ammonium; detoxication; brain; gamma--aminobutyric acid; acid--thiol ligases..butyrate: CoA ligase (AMP); blood..serum; carbon tetrachloride; oxidative phosphorylation; cell components..mitochondria; radiolabeled carbon; acetates; organic acids; adenosine triphosphate; butyric acid

(contd)

PHYSIOLOGICAL CHEMISTRY (CONTD)

AM-06872 SCHNATZ, J. DAVID, Buffalo Gen. Hosp., Buffalo, N.Y.
adipose tissue; lipolysis; triglycerides; lipases; insulin; epinephrine; diabetes

AM-06894 BRODIE, HARRY J., Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
steroids; synthesis; enzymes; enzyme models; functional groups; tritium; hormones; stereochemistry

AM-06895 WHITE, HAROLD B., Jr., Univ. Mississippi Med. Cr., Jackson, Miss.
linoleic acid; lipids; fatty acids; molecular structure; stearic acid; oleic acid; acetates; citrate; glucose; malonic acid; propionic acid; radiolabeled carbon; trienoic acids; algae..Chlorella; cell age; fungi..Choanephora cucurbitarum

AM-06954 STRASSMAN, MURRAY, Albert Einstein Med. Cr., Philadelphia, Pa.
microorganisms; valine; leucine; isoleucine; lysine; enzymes; molecular rearrangement; molecular condensations; radiolabeled carbon; acetoacetate

AM-06965 KNAUFF, RAYMOND E., Sch. Med., Temple Univ., Philadelphia, Pa.
pancreatic cystic fibrosis; mucopolysaccharidosis; lung; cell components; cell fluids; fractionation; N--acetylneuraminic acid; L--fucose; enzymes; glycoproteins; mucoproteins; glucose; glucosamine; radiolabeled carbon

AM-06968 REISS, OSCAR K., Univ. Colorado Med. Cr., Denver, Colo.
lipids; carbohydrates; cell components..mitochondria; fatty acids; oxidation; chemical structure; surface active agents

AM-06996 LIS, ADAM W., Sch. Med., Univ. Oregon, Portland, Ore.
ribonucleic acid; pseudouridine; uridine; 3,5-diribosyluracil; molecular condensations; enzymes; guanosine; ribose; pyrimidine; radiolabeled

AM-07002 BRIDGES, ROBERT A., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
dehydrogenases..lactic dehydrogenase; enzymes, isoenzymes; polymerization; molecular size; molecular rearrangement; cell components; fractionation

AM-07163 GOOD, THOMAS A., Sch. Med., Univ. Maryland, Baltimore, Md.
mucopolysaccharidosis; lipochondrodystrophy; cretinism; mucoproteins; α--aminoisobutyric acid; β--alanine; infant animals..newborn; achondroplasia; brain disorders; bone disorders; children

AM-07176 VAN HOLT, CLAUS, Univ. West Indies, Mona, St. Andrew, Jamaica
hypoglycin; radiolabeled carbon; carbohydrates; amino acid; fatty acids; geographical sites..West Indies; geographical sites..Florida; hypoglycemia; riboflavin; antimetabolites; ackee poisoning

AM-07180 MASON, HOWARD S., Univ. Oregon Med. Sch., Portland, Ore.
oxygen; phenol oxidases..polyphenol oxidases; cell components..microsomes; fungi..mushrooms; liver; copper; chemical structure; metalloenzymes; functional groups; binding; chelating agents; metal chelates; electron charge distribution; reaction rate (chemistry); enzymes substrate complex; electron transport; fractionation; oxidoreductases; transferases

AM-07189 EISENSTADT, JERMOE M., Sch. Med., Yale Univ., New Haven, Conn.
cell components..chloroplasts; messenger ribonucleic acid; Protozoa, Euglena; deoxyribonucleic acid; proteins; blood cells..reticulocytes; peptide templates; ribonucleic acid; globins; cell components..ribosomes; bacteria..Escherichia coli

AM-07203 NOLTMANN, ERNST A., Col. Agr., Univ. California, Riverside, Cal.
isomerases..glucosephosphate isomerase; isomerases..mannosephosphate isomerase; fructose--6--phosphate; molecular weight; molecular structure; amino acids; sulfhydryls; enzyme substrate; functional groups

AM-07273 SACKS, JACOB, Sch. Arts, Sci., Univ. Arkansas, Fayetteville, Ark.
muscle contraction; muscle proteins; binding; adenosine triphosphate; adenosine diphosphate; actin; radiolabeled phosphorus

AM-07279 STETTEN, MARJORIE R., Sch. Med., Rutgers State Univ., New Brunswick, N.J.
pyrophosphates; phosphatases..pyrophosphatase; phosphates; glucose; phosphomonoesterases..glucose--6--phosphatases; cell components..microsomes; cell components..mitochondria; radiolabeled phosphorus; radiolabeled carbon

AM-07294 MADSEN, NEIL B., Sch. Med., Univ. Alberta, Edmonton, Alberta, Canada
phosphorylases..glycogen phosphorylase; uridine diphosphate glucose; glycosyltransferases..UDP glucose : α--1,4--glucan α--4--glycosyltransferase; glycogen; glucose; liver

AM-07299 HUMPHREYS, THOMAS E., Univ. Florida Agr. Expt. Station, Gainesville, Fla.
corn; membrane permeability and transport; glucose; temperature; antimetabolites; pentoses; hexoses; phosphorylation; sugar; radiolabeled carbon

AM-07311 RENDI, RENZO, Univ. Colorado Med. Cr., Denver, Colo.
phosphatases..adenosine triphosphatase; sodium; potassium; membrane permeability and transport; adenosine triphosphate; radiolabeled phosphorus; radiolabeled sodium

AM-07354 NAPIER, EDWARD A., Jr., Univ. Michigan Med. Cr., Ann Arbor, Mich.
lipoproteins; lipoproteins..serum lipoproteins; cytochrome; electron transport; fractionation

AM-07394 DONALDSON, KENNETH O., College Med., Howard Univ., Washington, D. C.
bacteria..Escherichia coli; 5,10-methylenetetrahydrofolic acid; enzymes; liver; methylation; oxidation-reduction; NADH2; FAD; vitamin K3; dehydrogenases..methylenetetrahydrofolic dehydrogenase

AM-07395 EYLAR, EDWIN H., Sch. Med., Univ. Southern California, Los Angeles, Cal.
glycoproteins; fetuin; cell components..cell membrane; pancreatic cystic fibrosis; asthma; molecular structure; proteins; monosaccharides; asparagine; N-acetylglucosamine; amino acid; enzymes; nucleotides; radiolabeled carbon; tritium

AM-07418 WEINBAUM, GEORGE, Albert Einstein Med. Cr., Philadelphia, Pa.
bacteria..Escherichia coli; lactose; xylose; culture media; nitrogen; enzymes; proteins; antimetabolites; cell components..cell wall

AM-07422 TALALAY, PAUL, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
steroid hormones; enzymes; hydrogen transport; cell; coenzyme; oxidoreductases..steroid dehydrogenases; oxidoreductases..17β-hydroxysteroid dehydrogenase; pyridine nucleotides

AM-07536 LIGHT, ROBLEY J., Grad. Sch. Arts, Sci., Florida State Univ., Tallahassee, Fla.
fungi..molds; fungi..Penicillium; metabolites; acetates; aromatic compounds; growth, microorganisms; 6-methyl salicylic acid

AM-07598 THRONEBERRY, GLYN O., New Mexico State Univ., University Park, N.M.
cell components..mitochondria; chemical structure--biological activity; electron transport; gossypol; oxidases; oxidative phosphorylation; plants

AM-07683 NODA, HARUHIKO, Fac. Sci., Univ. Tokyo, Tokyo, Japan
proteases..collagenase; chemical bonds..bond cleavage; chemical structure--biological activity; polypeptides; synthesis; reaction sites

AM-07696 FORBES, JOHN C., Med. Col. Virginia, Richmond, Va.
fatty acids; albumins..serum albumins; binding; lipoproteins..serum lipoproteins; hypoalbuminemia; hypocholesteremia; liver; triglycerides; fats; diet; hydrocortisone

AM-07698 THOMAS, J.W., Sch. Agr., Michigan State Univ., East Lansing, Mich.
enzymes; vitamin A; carotenes; carotenoids; diet; liver; intestines..duodenum

AM-07699 ROSENTHAL, ARTHUR F., Long Island Jewish Hosp., New Hyde Park, N.Y.
phospholipids; synthesis; antimetabolites; enzymes inhibitors; phospholipases; intestinal absorption; fatty acids; hormones; nerve impulse transmission; chemical structure--biological activity; phospholipids inhibitors

AM-07720 LEVY, H. RICHARD, Sch. Liberal Arts, Syracuse Univ., Syracuse, N.Y.
dehydroepiandrosterone; dehydrogenases..glucose-6-phosphate dehydrogenase; enzymes; fatty acids; lactation; mammary gland; NAD; NAD analogs; NADP; pyridine nucleotides; steroids; radiolabeled carbon; tritium

AM-07806 BARRON, EDWARD J., Virginia Mason Res. Fdn., Seattle, Wash.
cell components..mitochondria; enzymes; liver tissue; metabolic diseases; unsaturated fatty acids

AM-07902 FISCHER, EDMOND H., Sch. Med., Univ. Washington, Seattle, Wash.
adenosine monophosphate; chemical structure--biological activity; conformations (chemistry); functional groups; muscle; phosphorylases..glycogen phosphorylase; phosphorylation; pyridoxal-5-phosphate

AM-07929 NYHAN, WILLIAM L., Sch. Med., Univ. Miami, Miami, Fla.
glycinemia; leukopenia; mental retardation; ketone bodies; metabolic diseases inborn; oxalosis; hypoglycemia, leucine induced; amino acids; tritium; radiolabeled carbon

AM-07976 KIYASU, JOHN Y., Adelphi Col. Garden City, N.Y.
lipids; nucleotides; cytidine; fungi..yeasts; diglycerides; phosphotransferases..cytidylate kinase; phospholipids

AM-07984 HENDERSON, L.M., Grad. Sch., Univ. Minnesota, St. Paul, Minn.
hydroxylysine; bacteria..Lactobacillus; growth factors; lysine; cell components..cell wall; tritium; mucopeptides

AM-07987 VAKIRTZI-LEMONIAS, CATHERINE, Greek Atomic Energy Comm., Nuclear Res. Cr. Democritus, Athens, Greece
quinones; coenzyme Q; sterols; phenylalanine; growth factors; culture media; chemical structure; protozoa..Crithidia fasciculata

AM-07990 DANFORTH, WILLIAM H., Barnes Hosp., St. Louis, Mo.
glycogen; phsophorylases..glycogen phosphorylase; glycogenolysis; muscle..skeletal muscle; muscle contraction; phosphotransferases..ATP: phosphorylase phosphotransferase; anaerobiosis; potentials..membrane potentials

AM-08005 **SILVER, MARC S., Amherst Col., Amherst, Mass.**
carbohydrases..glycosidases; chemical structure; enzymes substrate; esterases; organic compounds; proteases.. chymotrypsin; proteases, pepsin; synthesis

AM-08011 **MELIUS, PAUL, Sch. Chem., Auburn Univ., Auburn, Ala.**
bile acids and salts; lipases..lipoprotein lipase; pancreas; lipoproteins; enzymes substrate complex; lipolysis; intestinal absorption

AM-08069 **RICHARDSON, THOMAS, Col. Agr., Univ. Wisconsin, Madison, Wis.**
phospholipids; fatty acids; diet; cell components.. mitochondria; cell components..mitochondrial membrane; species; plants; cell components..lysosomes; cell components..cell membrane

AM-08076 **JUNGAS, ROBERT L., Harvard Med. Sch., Boston, Mass.**
adipose tissue; epididymal fat pad; fatty acids; glycogen; insulin; lipolysis; phosphorylases; radiolabeled carbon; tritium

AM-08098 **SAKAMI, WARWICK, Sch. Med., Western Reserve Univ., Cleveland, Ohio**
adenosylmethionine; enzymes; folic acid; liver; methionine; one-carbon compounds; radiolabeled carbon; synthesis; vitamin B12 coenzymes

AM-08123 **EVANS, HAROLD J., Sch. Sci., Agr., Oregon State Univ., Corvallis, Ore.**
enzymes; fatty acids; ion..cation; microbial culture; nucleic acids; peas; phosphotransferases..ATP; pyruvate phosphotransferase; potassium; proteins

AM-08127 **FLEISCHMAJER, RAUL, Hahnemann Med. Col. and Hosp., Philadelphia, Pa.**
aging; amino acid; carbohydrates; chemical structure; collagen; collagen diseases; connective tissue; proteins; skin; skin diseases

AM-08128 **REITHEL, FRANCIS J., Col. Liberal Arts, Univ. Oregon, Eugene, Ore.**
isomerases..phosphohexose isomerase; dehydrogenases.. glucose-6-phosphate dehydrogenase; mammary gland; fungi..yeasts; sugar phosphates; sugar sulfates; reaction sites

AM-08266 **MARGEN, SHELDON, Univ. California, Berkeley, Cal.**
glycoproteins; metabolic diseases; amino acid sequence; carbohydrates; blood proteins..plasma proteins; functional groups; globulins; liver

AM-08318 **HEATH, EDWARD C., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
aldolases..L-fuculose-1-phosphate-aldolase; aldolases.. hexose diphosphate aldolase; chemical structure; colitose; 6-deoxyhexoses; enzymes; immunology..antigens; ketose phosphates; lipopolysaccharides; nucleotides; proteolysis

AM-08345 **IYENGAR, M. RAJA, Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.**
nucleotides; actin; adenosine triphosphate; substitution reactions, chemistry; chemical bonds..bond formation; sulfhydryls; amino groups; functional groups

AM-08346 **TORO-GOYCO, EFRAIN, Sch. Med., Univ. Puerto Rico, San Juan, P.R.**
proteases; amino acid sequence; chemical structure--biological activity; reaction sites; plants

AM-08350 **LITWACK, GERALD, Fels Research Inst., Temple Univ., Sch. Med., Philadelphia, Pa.**
aminotransferases..tyrosine-α-ketoglutarate transaminase; nucleic acids; proteins; thyroid hormones

AM-08376 **CAMPO, ROBERT D., Sch. Med., Temple Univ., Philadelphia, Pa.**
cartilage; calcification; mucoproteins; molecular structure; bone..metaphysis; bone..epiphyses; radiolabeled carbon; radiolabeled sulfur; radiolabeled selenium

AM-08390 **INGRAM, VERNON M., Massachusetts Inst. Technology, Cambridge, Mass.**
soluble ribonucleic acid; molecular structure; nucleotide sequence; fungi..yeasts; bacteria.. Escherichia coli; functional groups; alanine; valine; instrumentation--methodology; fractionation

AM-08401 **STAMP, WARREN G., Sch. Med., Washington Univ., St. Louis, Mo.**
muscle; enzymes; orthopedics; diagnostic tests; reaction sites

AM-08417 **PARKER, FRANK S., New York Med. Col., New York, N.Y.**
mucopolysaccharides; mucoproteins; glycoproteins; hyaluronic acid; chondroitin sulfate; heparin; carbohydrates; molecular structure; molecular weight; chemical bonds; solutions..aqueous solutions; solid state (chemistry); instrumentation--methodology; infrared spectrometry; chloroquine

AM-08429 **PIGMAN, WARD, New York Med. Col., New York, N.Y.**
laboratory facilities; mucopolysaccharides; glycoproteins; polysaccharides; mucin; chemical structure--biological activity; hyaluronic acid; depolymerization; membrane permeability and transport; heparin; carcinogenesis; thyroxine; binding; submaxillary gland; sublingual gland; infrared spectrometry; connective tissue; enzymes; carbohydrases..glycosidases; carbohydrases..neuramidase; oxidoreductases..glucose oxidase; amidohydrolases.. urease; fungi..Cryptococcus neoformans

AM-08481 **MUMMA, RALPH O., Col. Sci., Pennsylvania State Univ., University Park, Pa.**
lipids; plants; chemical structure--biological activity; cell components..chloroplasts; reaction sites; radiolabeled carbon; radiolabeled phosphorus; radiolabeled sulfur

AM-08482 **HOFFMAN, PHILIP, Inst. SkeletoMuscular Diseases, N. Y. C.**
connective tissue; mucopolysaccharides; chondroitin sulfate; heparitin sulfate; protein-bound carbohydrates; chemical structure; binding; serine; proteases..collagenase; glucosamine

AM-08511 **CAMPBELL, BENEDICT J., Univ. Missouri Med. Cr., Columbia, Mo.**
proteases..aminopeptidase; kidney; chemical structure--biological activity; metal; chemical bonds; glucocorticoids; sex hormones; vasopressin; immunology

AM-08539 **GIBBS, ROBERT H., Duke Univ. Med. Cr., Durham, N.C.**
cell components..cell membrane; phosphatases.. adenosine triphosphatase; ion..cation; ion exchange and transport; ouabain; adenosine triphosphate; radiolabeled phosphorus

AM-08575 **MORRIS, ALLAN J., Michigan State Univ., East Lansing, Mich.**
hemoglobin; blood cells..reticulocytes; cell components.. ribosomes; cell components..polysomes; guanosine triphosphate; cell--free systems; antibiotics

AM-08608 **KINDEL, PAUL, Col. Agr., Natural Sci., Michigan State Univ., East Lansing, Mich.**
sugar; monosaccharides; enzymes; 1-carbon compounds; plants; radiolabeled carbon

AM-08609 **KLINE, EDWARD S., Med. Col. Virginia, Richmond, Va.**
bacteria..Escherichia coli; oxidoreductases..lactate dehydrogenases; enzymes..isoenzymes; functional groups; molecular structure

AM-08625 **RITTENBERG, DAVID, Sch. Phys., Surg., Columbia Univ., N.Y.C.**
glucose; pentose pathway; bacteria..Escherichia coli; stable isotope labeled oxygen; ribose; deoxyribose; water supply; stable isotopes; toxicology

AM-08660 **WEBSTER, GEORGE, Grad. Sch., Univ. Wisconsin, Madison, Wis.**
oxidative phosphorylation; high energy compounds; molecular structure; adenosine triphosphate; oxidoreductases..cytochrome C oxidase; reaction sites; cell components..mitochondria; radiolabeled phosphorus

AM-08664 **LEE, CHARLOTTE O., Alabama AM Col., Normal, Ala.**
phospholipids; methylation; enzymes; methionine; fungi.. Neurospora crassa; phosphatidyl dimethylethanolamine

AM-08672 **STROMINGER, JACK L., Sch. Med., Univ. Wisconsin, Madison, Wis.**
mucopolysaccharides; oviduct; lipopolysaccharides; bacteria; sugar; egg shell; nucleotides

AM-08690 **SLATER, EDWARD C., Sch. Med., Univ. Amsterdam, Amsterdam, The Netherlands**
tissue respiration; oxidative phosphorylation; adenosine triphosphate; histidine phosphates; phosphoserine; oligomycin; cell components..mitochondria; ions..anion

AM-08721 **McCORMICK, DONALD B., Grad. Sch. Nutr., Cornell Univ., Ithaca, N.Y.**
biotin; cell--free systems; bacteria, Pseudomonas; enzymes

AM-08729 **HAMERMAN, DAVID, Albert Einstein Col. Med., Bronx, N.Y.**
cell culture; fibroblasts; hyaluronic acid; proteins; conjugates; immunology..antibodies; arthritis.. rheumatoid arthritis; radiolabeled carbon

AM-08787 **SPENCER, BRIAN, Sch. Med., Dublin Univ., Dublin, Ireland**
membrane permeability and transport; molybdenum; sulfates; toxicology; cysteine; choline; phosphotransferases..ATP sulfate adenylyltransferase; fungi; bacteria; microbial culture

AM-08791 **LIGHT, ROBLEY J., Grad. Sch., Florida State Univ., Tallahassee, Fla.**
proteins; lipids; cell components..microsomes; micelle formation (chemistry); enzymes; enzyme substrate; enzyme substrate complex

AM-08816 **SILBERT, JEREMIAH E., Boston Veterans Admin. Hosp., Boston, Mass.**
sulfomucopolysaccharides; sulfation; cell--free systems; heparin; chondroitin sulfate; cell components..microsomes; vitamin A; mast cells neoplasms

AM-08822 **LOWENSTEIN, LEAH M., Boston City Hosp., Boston, Mass.**
N--acetylaspartic acid; ammonia intoxication; arginine; urea; reaction sites; liver cirrhosis; hepatic coma; liver; brain

AM-08845 **BARKER, HORACE A., Univ. California, Berkeley, Cal.**
research programs; laboratory facilities; molecules.. macromolecules; enzymes; proteins; nucleic acids; carbohydrates; nucleotides; metals; molecular structure; molecular weight; chemical structure--biological activity; mesaconate; citramalate; insulin; polymerization; proteolysis; prolactin; disulfide bonds; heme--proteins; cytochrome; peroxidases; aminotransferases; enzyme substrate complex; transsulfurases..thiosulfate transsulfurase; iron; proteases..peptidases; ferriporphyrins; cyclic hexapeptides; hydrogen bond; plants; algae; marine biology; carbon--nitrogen ligases..formate; tetrahydrofolate ligase (ADP); ferredoxin; purines; bacteria..Pseudomonas; bacteria..Clostridium; bacteria..Escherichia coli; bacteria..Lactobacillus; bacteria..Mycobacterium; bacteria..Mycobacterium tuberculosis; viruses..bacteriophage; cell

(contd)

LISTING OF GENERAL RESEARCH AREAS

PHYSIOLOGICAL CHEMISTRY (CONTD)

components..ribosomes; cell components..mitochondria; cell components..cell wall; flavoprotein enzymes; decarboxylases..histidine decarboxylase; glycolipids; ribonucleic acid; species; taxonomy; phospholipids; tissue respiration; reaction sites; cell differentiation; carbon--carbon hydrolases..tryptophanase

AM-08847 ROTHFIELD, LAWRENCE I., Albert Einstein Col. Med., Bronx, N.Y.
lipopolysaccharides; transferases; sugar nucleotides; cell components..cell wall; bacteria..Salmonella typhymurium

AM-08848 PENEFSKY, HARVEY S., Public Health Res. Inst., N.Y.C.
oxidative phosphorylation; phosphatases..adenosine triphosphatase; cell components..mitochondria; proteins; molecular rearrangement; functional groups; chemical structure--biological activity

AM-08873 SEGAL, HAROLD L., State Univ. New York, Buffalo, N.Y.
aminotransferases..alanine transaminase; hormones; proteins

AM-08950 CLAYBROOK, JAMES R., Oregon Regional Primate Res. Cr., Beaverton, Ore.
muscle proteins; muscles..myofibrils; primates.. Macaca mulatta; embryo; growth; immunology.. antibodies; gamma globulin

AM-08953 OCHOA, SEVERO, New York Univ. Med. Cr., New York, N.Y.
laboratory facilities; genetics..genetic coding; genetics..hybrids; proteins; chemical structure--biological activity; molecular structure; conformation; (chemistry); ribonucleic acid; deoxyribonucleic acid; amino acid sequence; virus replication; polypeptides..unnatural polypeptides; synthesis; polynucleotides; nucleotides; nucleases; lysine; bacteria..Escherichia coli; bacteria.. Azotobacter vinelandii; viruses..bacteriophage MS2; vitamin B12 coenzymes; isomerases..methylmalonyl isomerase; ketoacid lyases..citrate synthase; phosphotransferases..RNA nucleotidyltransferase; carboxylases..propionyl carboxylase; polysaccharides; phenylalanine; pseudouridine

AM-08958 HOSKINS, DALE D., Oregon Regional Primate Res. Cr., Beaverton, Ore.
primates..Macaca mulatta; cell components.. mitochondria; electron transport; flavoprotein enzymes; functional groups; oxidoreductases.. sarcosine oxidase; oxidoreductases..acyl coenzyme A dehydrogenases; oxidoreductases..N--methyl amino acid oxidase

AM-08966 BARRON, EDWARD J., Virginia Mason Res.Fdn., Seattle, Wash.
fatty acids; saturated fats; cell components.. mitochondria; enzymes; NADP; coenzyme A

AM-08977 KUMAR, SOMA, Grad. Sch., Georgetown Univ., Washington, D.C.
fatty acids; butyric acid; coenzyme A..acetyl--coenzyme A; transacylases..acetyl coenzyme A transacetylase

AM-09038 ROSEN, SAMUEL M., Albert Einstein Col. Med., Bronx, N.Y.
glycoproteins; proteins; sugar nucleotides; mucoproteins

AM-09058 GILVARG, CHARLES, Grad. Sch., Princeton Univ., Princeton, N.J.
lysine; diaminopimelic acid; dipicolinic acid; bacteria.. Escherichia coli; bacteria..Bacillus megaterium; cell components..cell wall; chemical structure--biological activity

AM-09072 KIMMEL, JOE R., Univ. Kansas Med. Cr., Kansas City, Kans.
insulin; pancreas; diabetes; amino acid sequence; polypeptides; iontophoresis

AM-09100 NES, WILLIAM R., Grad. Sch., Univ. Mississippi, University, Miss.
isoprenoids; chemical structure; bacteria.. Pseudomonas; peas; phylogeny; enzymes; steroids; radiolabeled carbon; triterpenes

AM-09132 KUETTNER, KLAUS E., Presbyterian-St. Luke's Hosp., Chicago, Ill.
bone; connective tissue; chondroitin sulfate; mucoproteins; electrolytes; molecular weight; enzymes; proteins; radiolabeled carbon; radiolabeled sulfur; cartilage

AM-09143 HARDESTY, BOYD A., Grad. Sch., Univ. Texas, Austin, Tex.
proteins; nucleic acids; messenger ribonucleic acid; cell--free systems; bacteria..Escherichia coli; cell components..ribosomes

AM-09182 CROUNSE, ROBERT G., Johns Hopkins Med. Sch., Baltimore, Md.
keratinization; proteins; skins

AM-09198 SPIRO, MARY J., Massachusetts Gen. Hosp., Boston, Mass.
thyroglobulin; thyroid gland; proteins; amino acid; carbohydrates; molecular structure; peptides

AM-09242 HELMREICH, ERNST, Sch. Med., Washington Univ., St. Louis, Mo.
muscle contraction; glycolysis; reaction rates (chemistry); phosphorylases; immunology..antibodies

AM-09243 KIMURA, TOKUJI, Col. Sci., St. Paul's Univ., Tokyo, Japan
phospholipids; cardiolipin; oxidoreductases.. malate dehydrogenase; FAD; flavoprotein enzymes; apoenzymes; bacteria..Mycobacterium avium; sterols

AM-09277 LIGHT, ALBERT, Purdue Univ., Lafayette, Ind.
proteases..trypsin; proteases..trypsinogen; chemical structure--biological activity; functional groups; amino acids; conformations (chemistry); bioassay

AM-09299 TSAO, MAKEPEACE U., Univ. Michigan Med. Cr., Ann Arbor, Mich.
insulin (resistance) tolerance; peptides; diabetes lipoatropic; reaction sites; molecular structure; amino acid sequence; glucose

AM-09306 MONTGOMERY, MORRIS W., Sch. Agr., Oregon State Univ., Corvallis, Ore.
classification; vegetables; esterases; enzyme inhibitors; molecular structure; organophosphorus compounds; detoxication

AM-09308 JORDAN, JOHN P., Oklahoma City Univ., Oklahoma City, Okla.
cell components..mitochondria; fatty acids; enzymes; coenzyme A..malonyl--coenzyme A; coenzyme A..acetyl--coenzyme A; avidin

AM-09309 DUNATHAN, HARMON C., Haverford Col., Haverford, Pa.
pyridoxine; pyridoxal phosphate; apoenzymes; functional groups; stereochemistry; tautomerism; transamination; protons; deuterium

AM-09310 GROLLMAN, ARTHUR P., Albert Einstein Col. Med., Bronx, N.Y.
polysaccharides; oligosaccharides; blood groups; immunology; milk; sugar nucleotides; glycosyltransferases

AM-09311 BENTLEY, RONALD, Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
1--carbon compounds; methyl groups; ring compounds; vitamin K; ubiquinone; p--benzoquinone; naphthoquinone; methylation; methionine; cell--free systems; fungi; bacteria

AM-09312 HELANDER, HERBERT F., Oklahoma Med. Res. Inst., Oklahoma City, Okla.
enzymes..zymogens; gastrointestinal system; instrumentation--methodology; chemical structure--biological activity; mucous membrane; reserpine; histamine

AM-09313 WILLIAMS, CHARLES H., Jr., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
flavoprotein enzymes; oxidoreductases..lipoate dehydrogenase; molecular structure; bacteria..Escherichia coli; species

AM-09314 ABBOTT, MITCHEL T., San Diego State Col., San Diego, Cal.
thymine; pyrimidines; ribonucleic acid; hydroxylases; oxidation; enzymes; uracil; fungi..Neurospora; cell--free systems

AM-09322 SCHLAMOWITZ, MAX, Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
organic acids; proteases..pepsinogen; proteases..pepsin; acetates; radiolabeled carbon; amino acids; peptides

AM-09324 GREENMAN, DAVID L., Johns Hopkins Univ., Baltimore, Md.
uterus; estrogens; estradiol; proteins; ribonucleic acid; messenger ribonucleic acid; soluble ribonucleic acid; cell components.. ribosomes; cell--free systems; antibiotics. actinomycin; antibiotics, puromycin

AM-09400 WEEKS, OWEN B., New Mexico State Univ., University Park, N.Mex.
bacteria..Flavobacterium; carotenoids; diterpenoids; mevalonic acid; molecular asymmetry; hydroxylation reactions; photochemistry; temperature

AM-09458 MASORO, EDWARD J., Women's Med. Col., Philadelphia, Pa.
lipids; fasting; lipogenic inhibitors; carbohydrates; fatty acids; oxidation; muscle..skeletal muscle; muscle contraction; kidney..renal tubular transport; column chromatography; thin layer chromatography; acclimatization; nerves..denervation; radiolabeled; sodium; potassium; muscular dystrophy

AM-09483 ROBERTSON, ALEXANDER F., Children's Hosp., Columbus, Ohio
phospholipases; lecithin; radiolabeled carbon; fatty acids

AM-09633 PURDY, ROBERT H., Southwest Fdn. for Res., Educ., San Antonio, Tex.
thyroxine--binding proteins; functional groups; amino acid sequence; chemical structure--biological activity; blood proteins; reaction sites; primates ..baboons

AM-09657 UTTER, MERTON F., Sch. Med., Western Reserve Univ., Cleveland, Ohio
carboxylation; carbon--carbon lyases..pyruvate carboxylase; phosphotransferases..ATP; pyruvate phosphotransferase; coenzyme A; metalloenzymes

AM-10010 NICOLAIDES, NICHOLAS, Sch. Med., Univ. Southern California, Los Angeles, Cal.
lipids; skin; skin diseases; molecular structure; nutrition

AP-00071 MUDD, JOHN B., Univ. California, Riverside, Cal.
air pollution; enzymes; lipids; NADH2; NADPH2; oxidants; plants; pyridine nucleotides; sulfhydryls

CA-00392 HELLERMAN, LESLIE, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
cooperative study; neoplastic cells; tissue; cancer

chemotherapy; pyruvates; enzymes; mercury; arsenic; lipoic acid; oxidoreductases..amino acid oxidase; enzyme inhibitors; oxidoreductases..glutamic dehydrogenase; oxidoreductase..glyceraldehyde phosphate dehydrogenase

CA-00994 DOUNCE, ALEXANDER L., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
cell division..mitosis; cell components..cell nucleus; histones; deoxyribonucleic acid; proteases; liver; regeneration; neoplasms; genetics..chromosomes; ribonucleic acid; molecular structure; amino acid; binding

CA-01094 SPIEGELMAN, SOL, Univ. Illinois, Urbana, Ill.
enzymes; proteins; genetics..genes; genetics..genetic coding; transfer ribonucleic acid; messenger ribonucleic acid; cell components..ribosomes; nucleic acids; bacteria..Escherichia coli; viruses..bacteriophage; embryology

CA-01251 STEKOL, JAKOB A., Inst. Cancer Res., Philadelphia, Pa.
tritium; ethionine; carcinogenesis; hepatoma; deoxyribonucleic acid; ribonucleic acid; radiolabeled carbon; alkylation; S-adenosyl-L-ethionine; choline; cystine

CA-01552 BOND, THOMAS J., Grad. Sch., Baylor Univ., Waco, Texas
carcinogenesis; carcinogens; enzymes; reaction sites; carcinogenesis inhibitors

CA-01747 BARNUM, CYRUS P., Jr., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
deoxyribonucleic acid; diurnal variation; liver; neoplastic growth; phospholipids; proteins; radiolabeled phosphorus; radiation effects; regeneration; ribonucleic acid; x-rays

CA-01786 DEUTSCH, HAROLD F., Med. Sch., Univ. Wisconsin, Madison, Wis.
myeloma globulins; proteases..papain; carbohydrates; ceruloplasmin; chemical structure--biological activity; macroglobulins; globulins..serum globulin; amino acids; cysteine; cystine; chemical bonds..bond formation; chemical bonds..bond cleavage; hyperglobulinemia

CA-02015 BUCHANAN, JOHN M., Mass. Inst. Tech., Cambridge, Mass.
aminoimidazole-carboxamide ribotides; aminoimidazole ribotides; bacteria..Escherichia coli; enzymes; nucleic acids; nucleotides; purine; radiation effects; ultraviolet rays; viruses..bacteriophage T2

CA-02075 DISCHE, ZACHARIAS, Col. Phys., Surg., Columbia Univ., New York, N.Y.
polysaccharides; neoplasms; glycoproteins; chemical structure--biological activity; immunology

CA-02289 HOFSTEE, BAREND H.J., Palo Alto Med. Res. Fdn., Palo Alto, Cal.
proteases..chymotrypsin; nucleic acids; enzyme complexes; esterases; molecular structure; solubility

CA-02336 CHANLEY, J.D., Mt. Sinai Hosp., N.Y.C.
N-acetylamidophosphate; amidases..phosphamidase; amidophosphates; epithelioma; hydrolysis; synthesis

CA-02568 ROBERTS, EUGENE, City Hope Med. Cr., Duarte, Cal.
amino acid; neoplasms; Ehrlich ascites carcinoma; antineoplastic agents; genetic strains; radiolabeled carbon; carbon dioxide; metabolites

CA-02758 KANDUTSCH, ANDREW A., R.B. Jackson Mem. Lab., Bar Harbor, Me.
sterols; metabolites; neoplasms; steroid hormones; enzymes

CA-02851 STOKES, WILLIAM M., Providence Col., Providence, R.I.
sterols; embryo; neoplasms; brain; infant animals.. newborn; triparanol; desmosterol; hydrogenases..sterol 24--hydrogenase; cholesterol

CA-02896 KAPLAN, HENRY S., Sch. Med., Stanford Univ., Palo Alto, Cal.
nucleic acids; deoxyribonucleic acid; ultraviolet rays; radiation effects; photochemistry; x--rays; radiation sensitivity; pyrimidine analogs; proteins; binding; purine analogs

CA-03179 PRICE, T. DUANE, Columbia Univ., N.Y.C.
bacteria..Escherichia coli; nucleic acids; nucleoside-5'-phosphates; nucleoside-5'-sulfates; nucleotides analogs; radiolabeled phosphorus

CA-03463 RACKER, EFRAIM, Public Hlth. Res. Inst., N.Y.C.
carbohydrates; cell components..mitochondria; cell-free systems; dehydrogenases..glyceraldehydephosphate dehydrogenase; dinitrophenol; 2,4-dinitrophenol; glycogen; glucose; HeLa cells; imidazoles; insulin; muscle; neoplastic cells; oxidative phosphorylation; Pasteur effect; phosphatases..adenosine triphosphatase; phosphoketolase; purine nucleosides; pyrimidine nucleosides; sodium azide; succinic acid

CA-03610 TATUM, EDWARD L., Rockefeller Inst., N.Y.C.
environment; fungi..Neurospora; genetics; microorganisms; nutrition

CA-03715 SCHULTZ, JULIUS, Hahnemann Med. Col., Philadelphia, Pa.
chemical structure; neoplasms; peroxidases..myeloperoxidase; blood cells..neutrophil leukocytes; cell components; enzyme inhibitors; iron; stress; blood proteins..serum proteins; peptides; peptide templates

CA-03762 EATON, MONROE D., Harvard Med. Sch., Boston, Mass.
viruses..myxoviruses; neoplastic cells; host--virus; enzymes; viruses..oncolytic viruses; culture media; virus replication; viruses..incomplete viruses; virus inhibitors; ammonia

CA-03981 RACHELE, JULIAN R., Sch. Med., Cornell Univ., New York, N.Y.
1-carbon compounds; radiolabeled carbon; tritium; deuterium; folic acid; methyl groups

CA-04052 GENTILE, ARTHUR C., Col. Arts, Sci., Univ. Massachusetts, Amherst, Mass.
organic acids; oxidation; cell components..mitochondria; neoplastic growth; plants neoplasms; viruses..Rumex virus; electron transport; pyrophosphates; growth; cell division; neoplastic cells; oxidative phosphorylation

CA-04088 BESSMAN, MAURICE J., Johns Hopkins Univ., Baltimore, Md.
bacteria..Escherichia coli; deoxyribonucleic acid; deoxyribonucleotides; enzymes; phosphorylation; viruses.. bacteriophage

CA-04222 HAYAISHI, OSAMU, Kyoto Univ. Faculty Med., Kyoto, Japan
oxygenases; stable isotope labeled oxygen; aromatic compounds; hydroxylases; neoplasms; plants; microorganisms

CA-04251 BODANSKY, OSCAR, Sloan-Kettering Inst., New York, N.Y.
neoplasms; enzymes; sarcoma 180; Ehrlich ascites carcinoma; 6--mercaptopurine; nitrogen mustards; antineoplastic agents; N--glycosylhydrolases..NAD nucleosidase; diagnostic tests; immunology; electronic recording; aminotransferases..aspartate transaminase; enzymes..isoenzymes

CA-04464 HURLBERT, ROBERT B., Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
deoxyribonucleic acid; nucleotides; enzymes; reductases; deoxycytidine; neoplastic cells; hepatoma Novikoff; lipoic acid; bacteria..Escherichia coli

CA-04538 BELL, FRED E., Sch. Med., Univ. North Carolina, Chapel Hill, N. C.
proteins; enzymes; enzymes substrate analogs; enzymes inhibitors; enzymes feedback

CA-04580 GRUNBERG-MANAGO, MARIANNE, Inst. Biol. Physico-chem., Paris, France
bacteria; cell; enzymes; fungi..yeasts; nucleoside 5 - diphosphates; nucleotides; phosphotransferases..nucleoside diphosphate polynucleotide nucleotidyl transferase; polymerization; radiolabeled carbon; radiolabeled phosphorus; ribonucleic acid

CA-04605 BERNHEIM, FREDERICK, Duke Univ. Med. Cr., Durham, N.C.
antioxidants; phospholipases..lecithinases; phospholipases..lysolecithinase; breast neoplasms; carcinoma; proteases..chymotrypsin

CA-04720 JOHNSON, RALPH M., Ohio State Univ. Res. Fdn., Columbus, Ohio
phospholipids; phosphorylation; neoplasms; phosphoglycerides; regeneration; liver; cell components; cell division..mitosis; radiolabeled carbon

CA-04765 CERECEDO, LEOPOLD R., Sch. Med., Univ. Puerto Rico, San Juan, P.R.
adenocarcinoma E 0771; carcinoma; Jensen's sarcoma; lymphosarcoma..Murphy-Sturm; nucleic acids; radiolabeled carbon; Sarcoma 180; tritium; Walker carcinoma 256

CA-04823 CANELLAKIS, EVANGELE S., Sch. Med., Yale Univ., New Haven, Conn.
cell components..cell nucleus; thymus; enzymes; ribonucleotides; deoxyribonucleotides; deoxyribonucleic acid; ribonucleic acid; bacteria..Escherichia coli; transformation; bacteria..Bacillus subtilis

CA-04910 COLOWICK, SIDNEY P., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
bacteria E. coli; enzymes; glycolysis; neoplasms; neoplastic growth; viruses..bacteriophage T4

CA-05115 WENNER, CHARLES E., Health Research, Inc., Buffalo, N.Y.
ascites tumors; neoplastic cells; tissue respiration; oxidation; pyruvate; glyceraldehyde

CA-05117 STEIN, ABRAHAM M., Col. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.
oxidoreductases..NADH2 diaphorase; transhydrogenases; NADH2; neoplasms; citrate..isocitrate; oxidation; cell components..mitochondria

CA-05118 YUSHOK, WASLEY D., Biochem. Res. Fdn., Newark, Del.
ascites tumors; neoplastic cells; tissue respiration; 2--deoxy--D--glucose; 2,4--dinitrophenol; adenosine triphosphate; adenosine phosphates; dephosphorylases; deaminases; radiolabeled carbon; chromatography; nucleotides; nucleosides; guanosine triphosphate; uridine triphosphate

CA-05172 KAY, ERNEST R.M., Univ. Rochester, Rochester, N.Y.
nucleic acids; neoplastic cells; Ehrlich ascites carcinoma; deoxyribonucleic acid; genetics..chromosomes

CA-05262 PRUSOFF, WILLIAM H., Sch. Med., Yale Univ., New Haven, Conn.
antimetabolites; bacteria..Streptococcus faecalis; deoxyribonucleic acid; enzymes inhibitors; halopyrimidines; iododeoxyribonucleic acid; 5-iododeoxyuridine; leukemia.. myeloid leukemia; neoplastic cells; phosphotransferases.. ATP : thymidine 5'-phosphotransferase; polymerases.. deoxyribonucleic acid polymerase; radiation sensitivity; reaction sites; thymidine

(contd)

PHYSIOLOGICAL CHEMISTRY (CONTD)

CA-05730 **CHIGA, MASAHIRO,** Sch. Med., Univ. Utah, Salt Lake City, Utah
phosphotransferases..nucleoside diphosphate polynucleotide nucleotidyl transferase; phosphotransferases..ITP:AMP phosphotransferase; phosphotransferases..ATP:AMP phosphotransferase; phosphotransferases..ATP:nucleoside diphosphate phosphotransferase; enzymes substrate; ribonucleotides; deoxyribonucleotides; liver

CA-05993 **SEAL, ULYSSES S.,** Veterans Admin. Hosp., Minneapolis, Minn.
binding; blood proteins; corticosteroid binding globulin; globulins..serum globulin; hydrocortisone; immune sera; immunology..antigens; prostate neoplasms

CA-06051 **VAN KLEY, HAROLD,** Sch. Med., St. Louis Univ., St. Louis, Mo.
chemical structure; culture media; enzymes inhibitors; fungi..Aspergillus oryzae; growth (microorganisms); sulfatases..arylsulfatases; sulfur

CA-06107 **CARRUTHERS, CHRISTOPHER,** Hlth. Research, Inc., Buffalo, N.Y.
carcinogenesis; fatty acids; fractionation; growth; methylcholanthrene; phospholipids; skin; skin homeostasis

CA-06132 **YOST, HENRY T., Jr.,** Amherst Col. Amherst, Mass.
cell components; genetics..chromosomes; nucleic acids; oxidative phosphorylation; radiation effects whole body radiation; radiation protection ; spleen

CA-06152 **HUGGINS, CLYDE G.,** Sch. Med., Tulane Univ., New Orleans, La.
chemical structure; inositol phosphates; phospholipids; phosphatidopeptides; Ehrlich ascites carcinoma

CA-06389 **BEHAL, FRANCIS J.,** Med. Col., Georgia, Augusta, Ga.
bioassay; blood..serum; diagnostic tests; fractionation; genetics; neoplasms; proteases..aminopeptidase; proteases..leucine aminopeptidase; tissue

CA-06406 **MALEY, FRANK,** Health Research, Inc., Albany, N.Y.
nucleotides; deoxyribonucleic acid; nucleic acids inhibitors; aminohydrolases; nucleosides(tides) bases

CA-06437 **KAPLAN, HENRY S.,** Sch. Med., Stanford Univ., Stanford, Cal.
bacteria..Escherichia coli; purine analogs; pyrimidine analogs; deoxyribonucleic acid analogs; radiation sensitivity; ultraviolet rays; x-rays; radiation effects; deoxyribonucleosides; synthesis

CA-06703 **TERNBERG, JESSIE L.,** Sch. Med., Washington Univ., St. Louis, Mo.
carcinogenesis; diagnostic tests; electron spin resonance spectroscopy; free radicals; hepatoma; jaundice..obstructive jaundice; neoplasms

CA-06730 **DUBBS, CLYDE A.,** St. John's Hosp. Res. Fdn., Santa Monica, Cal.
blood proteins..serum proteins; proteases..leucine aminopeptidase; esterases; enzymes..isoenzymes; pancreatic diseases; pancreas neoplasms; biliary tract diseases; tetracycline; binding; neoplasms; proteins; diagnostic tests; blood cells..leukocytes; carbohydrases..beta--glucuronidase

CA-06788 **APOSHIAN, H. VASKEN,** Sch. Med., Tufts Univ., Boston, Mass.
carcinogenesis; deoxyribonucleic acid replication; nucleases..deoxyribonuclease; phosphotransferases; phosphotransferases..DNA nucleotidyl transferase; radiolabeled phosphorus; tissue culture; viruses..polyoma virus; Walker carcinoma 256

CA-06823 **SWAN, GEORGE A.,** King's Col., Newcastle upon Tyne, England
melanin; chemical structure; DOPA; dopamine; stable isotope labeled oxygen; radiolabeled carbon; pyrrole; synthesis; deuterium oxide; oxidation; photochemistry; radiation effects

CA-06910 **FURLONG, N. BURR,** Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
enzymes inhibitors; nucleases..deoxyribonuclease; phosphotransferases..DNA nucleotidyl transferase; deoxyribonucleic acid; hepatoma Novikoff; ascites tumors; Walker carcinoma 256

CA-06920 **HUFF, JOHN W.,** King County Hosp., Seattle, Wash.
nucleotides; leukemia; blood cells..leukocytes; nucleic acids; enzymes; radiolabeled carbon; purine analogs; pyrimidine analogs

CA-07350 **MULLINAX, PERRY F.,** Med. Col. Virginia, Richmond, Virginia
actinomycin D; ascites; blood cells..plasma cells; cell components..ribosomes; gamma globulin; immunology..antigen-antibody reactions; messenger ribonucleic acid; myeloma globulins; neoplastic cells; proteins; radiolabeled carbon; ribonucleic acid

CA-07373 **HERBERT, EDWARD,** Grad. Sch., Univ. Oregon, Eugene, Ore.
nucleotide sequence; soluble ribonucleic acid; fungi..yeasts; hemoglobin; nucleotides; blood cells..reticulocytes; ribonucleic acid; liver

CA-07410 **GERHART, JOHN C.,** Univ. California, Berkeley, Cal.
transcarbamylases..aspartate transcarbamylase; bacteria..Escherichia coli; mutations; enzymes feedback; reaction sites

CA-07457 **WILL, JOHN J.,** Cincinnati Gen. Hosp., Cincinnati, Ohio
ribonucleic acid; blood cells..leukocytes; leukemia; cell components..cell nucleus; cell components..cell nucleolus; cell components..mitochondria; cell components..microsomes; cell components..cytoplasm; messenger ribonucleic acid; deoxyribonucleic acid; radiolabeled phosphorus; radiolabeled carbon

CA-07617 **VESTLING, CARL S.,** Univ. Iowa, Iowa City, Iowa
aminotransferases..aspartate transaminase; dehydrogenases..lactate dehydrogenases; dehydrogenases..malate dehydrogenase; isozymes; liver

CA-07618 **FIALA, SILVIO,** Sch. Med., Univ. So. California, Los Angeles, Cal.
carcinogens; nucleic acids; transformation; reaction sites; liver neoplasms; enzymes; carcinogenesis; methylcholanthrene; bacteria..Pseudomonas; radiolabeled phosphorus; glycolysis

CA-07723 **CLINE, MARTIN J.,** Col. Med., Univ. Utah, Salt Lake City, Utah
ribonucleic acid; blood cells, granulocytes; leukemia; polymerases; phosphotransferases..ATP:phosphorylase phosphotransferase; phosphorylation; thymidine; tritium; radiolabeled carbon; radiolabeled phosphorus; uridine

CA-07746 **HNILICA, LUBOMIR S.,** Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
proteins; histones; cell components..cell nucleus; fibroblasts; cell differentiation; cell division; neoplastic growth; radiation effects; antimetabolites; alkylating agents; hepatoma Novikoff

CA-07818 **ROSE, IRWIN A.,** Inst. Cancer Res., Philadelphia, Pa.
enzymes; functional groups; chemical bonds; aldolases; alkylating agents; isomerases; enzyme substrate analogs; proteases..carboxypeptidase; protons; dehydratases, Citrate (isocitrate) hydrolyase; synthesis; deuterium; radiolabeled carbon

CA-07819 **ROSE, IRWIN A.,** Inst. Cancer Res., Philadelphia, Pa.
blood cells..erythrocytes; glycolysis; glucose--6--phosphates; phosphotransferases..ATP:D--fructose--6--phosphate 1--phosphotransferase; 2--3 diphosphoglycerate; radiolabeled carbon; phosphotransferases..ATP:D--hexose 6--phosphotransferase; neoplasms; brain

CA-08099 **MARSHAK, ALFRED,** Sch. Med., Tulane Univ., New Orleans, La.
cell components..cell nucleus; cell components..cytoplasm; ribonucleic acid; thymus; nucleic acids; age; radiation effects; nucleosides (tides) bases; lymphoma; urethan

CA-08128 **ZAMENHOF, STEPHEN,** Sch. Med., Univ. California, Los Angeles, Cal.
deoxyribonucleic acids; alkylating agents; methylated purines

CA-08182 **BUSCH, HARRIS,** Col. Med., Baylor Univ., Houston, Tex.
cell components..cell nucleus; neoplasms; histones; lysine; alanine; proteins; fractionation

CA-08217 **WEINER, LAWRENCE M.,** Sch. Med., Wayne State Univ., Detroit, Mich.
leukemia; blood cells..leukocytes; ribonucleic acid; deoxyribonucleic acid; antibiotics..actinomycin D; acridines; tritium; nucleosides (tides) bases

CA-08239 **BURKE, WILLIAM T.,** New York Med. Col., New York, N.Y.
proteins; amino acid; liver neoplasms; carcinogenesis; bile ducts stenosis; ethanol; carbon tetrachloride; azo compounds; AAF

CA-08262 **SAX, SYLVAN M.,** Western Pennsylvania Hosp., Pittsburgh, Pa.
ions..cation; sodium; binding; lipids; metal complexes; liver; liver neoplasms

CA-08292 **BURNETT, JEAN B.,** Massachusetts Gen. Hosp., Boston, Mass.
phenol oxidases..tyrosinase; chemical structure; enzymes..isoenzymes; phylogeny; species; genetic strains; melanoma; albinism; fungi..Neurospora crassa

DE-01374 **VEIS, ARTHUR,** Sch. Med., Northwestern Univ., Chicago, Ill.
chemical structure; collagen; dental structure..dentin; solubility; hydrolysis; phosphates; proteins; polysaccharides; binding

DE-01444 **RAPP, GUSTAV W.,** Sch. Dent., Loyola Univ., Chicago, Ill.
saliva; pyrophosphates; phosphatases..pyrophosphatase; microorganisms; dental caries; dental calculus

DE-01858 **CALDWELL, ROBERT C.,** Univ. Alabama Med. Ctr., Birmingham, Ala.
mucin; saliva; blood groups; pancreatic cystic fibrosis; children; chemical structure; viscosity

EF-00089 **GLASS, ROBERT L.,** Grad. Sch., Univ. Minnesota, St. Paul, Minn.
food preservation; wheat; esterases; lipases; enzymes substrate; chemical structure

GM-00091 **HANDLER, PHILIP,** Duke Univ. Med. Ctr., Durham, N.C.
metalloproteins; oxidoreductases..xanthine oxidase; oxidoreductases..aldehyde oxidase; oxidoreductases..dihydro--orotate dehydrogenase; reaction sites; phosphomutases..phosphoglucomutase; bacteria; species; muscle; fungi..yeasts; genetics; beryllium; flavoprotein enzymes oxidoreductases..aldehyde oxidase; oxidoreductases..orotic dehydrogenase; reaction sites; phosphomutases..phosphoglucomutase; bacteria; muscle; fungi..yeasts; amino acid

GM-02332 **NASON, ALVIN,** Grad. Sch., Johns Hopkins Univ., Baltimore, Md.
enzymes; nitrates; plants; microorganisms; tissue respiration; stable isotope labeled nitrogen

GM-03193 **CRANDALL, DANA I., Col. Med., Univ. Cincinnati, Cincinnati, Ohio**
tyrosine; oxidoreductases..homogentisate oxidase; binding; reaction sites; oxidoreductases..D--amino acid oxidase; FAD; coenzyme; functional groups; enzyme inhibitors; synthesis; apoenzymes

GM-03442 **LELOIR, LUIS F., Instituto de Investigaciones Bioquimicas, Buenos Aires, Argentina**
carbohydrates; enzymes; coenzymes; nucleotides; hexose phosphates

GM-03667 **GEISSMAN, T.A., Univ. California, Los Angeles, Cal.**
cinnamic acid; flavonoids; phenylalanine; plants

GM-03823 **HAMMOND, G.S., California Inst. Tech., Pasadena, Cal.**
enzymes inhibitors..chymotrypsin inhibitors; conformations (chemistry); stereochemistry; proteases..chymotrypsin; fluorescence; enzymes substrate; metal complexes; reaction sites

GM-03977 **BONNER, JAMES F., California Inst. Tech., Pasadena, Cal.**
cell components..ribosomes; molecular structure; cell components..cell nucleus; deoxyribonucleic acid; genetics chromosomes; histones; hormones; enzymes

GM-04314 **ARNON, DANIEL I., Univ. California, Berkeley, Cal.**
photosynthesis; cell components..chloroplasts; enzymes; phosphorylation

GM-04902 **LEVY, MILTON, Col. Dent., New York Univ., N.Y.C.**
epsilon-amino acid; chemical structure; collagen; ichthyocol; lysine; peptides; proteases..collagenase; synthesis

GM-05143 **BONNER, JAMES F., California Inst. Tech. Pasadena, Cal.**
cell components..microsomes; nucleoproteins; seeds; peas; histones; blood cells..reticulocytes; molecular weight; molecular structure; viscosity; optical rotation; ribonucleic acid; genetics..chromosomes

GM-05248 **MOSHER, HARRY S., Grad. Sch., Stanford Univ., Stanford, Cal.**
NADH2; reduction; fungi..yeasts; enzymes; 2--methyl--1--butyl--magnesium chloride; molecular asymmetry; enzyme substrate; oxidoreductases..alcohol dehydrogenases; stereochemistry; ketones; hydrogen transport

GM-05431 **McGILVERY, R.W., Sc. Med., Univ. Virginia, Charlottesville, Va.**
enzymes; glyconeogenesis; hexose phosphates; tissue; triose phosphates

GM-05441 **MEEUSE, BASTIAAN J.D., Univ. Washington, Seattle, Wash.**
oxalates; oxidoreductases..oxalate oxidase; gamma-hydroxyglutamic acid; glycolate; plants

GM-05519 **HANAHAN, DONALD J., Sch. Med., Univ. Washington, Seattle, Wash.**
phospholipases..lecithinase A; phospholipases..phosphatidylcholine phosphatidohydrolase; lipases..pancreatic lipase; chemical structure

GM-05709 **WICHERS, EDWARD, Nat. Acad. Sci., Washington, D.C.**
chemicals standardization; information exchange

GM-05817 **MANGOLD, HELMUT K., Hormel Inst., Austin, Minn.**
aldehydogenic triglycerides; fatty acids; fractionation; glyceryl ether diesters; lipids; nutrition; radiolabeled; radiolabeled iodine; tissue; triolein; vegetables oils

GM-05871 **OKUNUKI, KAZUO, Sch. Sci., Osaka Univ., Osaka, Japan**
algae; bacteria..Pseudomonas aeruginosa; chromatography; cytochrome C; electrophoresis; fungi..yeasts; oxidases.. cytochrome oxidases; ultracentrifugation

GM-05874 **EMERY, ARTHUR J., Jr., Sch. Med., Univ. Maryland, Baltimore, Md.**
nucleoproteins; fractionation; binding; deoxyribonucleic acid; proteins

GM-05919 **LEHNINGER, ALBERT L., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
respiratory enzymes; adenosine triphosphate; oxidative phosphorylation; cell components..mitochondria; cell components..mitochondrial membrane; membrane permeability and transport

GM-05976 **BASLER, EDDIE, Oklahoma State Univ., Stillwater, Okla.**
cotton; nitrogen; growth factors; (2,4-dichlorophenoxy) acetic acid; ribonucleic acid; cell components..microsomes; orotic acid; enzymes

GM-05989 **AIRTH, ROBERT L., Grad. Sch., Univ. Texas, Austin, Tex.**
fungi..molds; chemical structure; tissue respiration; luminescence..bioluminescence; adenosine triphosphate; thiamine; photochemistry; bacteria; enzymes

GM-06016 **DREYFUS, JEAN-CLAUDE, Lab. Res. Biochem., Paris, France**
muscle proteins; cell age; amino acid; aldolases; myoglobin; phosphotransferases..ATP : creatine phosphotransferase; muscle..myofibrils; hemoglobin; radiolabeled carbon

GM-06035 **STONE, DAVID, Worcester Fdn., Shrewsbury, Mass.**
nucleic acids; liver; transfer ribonucleic acid; ascites tumors; cell division..mitosis; genetics..chromosomes

GM-06070 **SOKATCH, JOHN R., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.**
pentose phosphates; ribose phosphate; radiolabeled carbon; cell-free systems; bacteria..Streptococcus faecalis; hexose monophosphate pathway; pentose pathway

GM-06071 **HUMMEL, JOHN P., Sch. Med., State Univ. ..a, Iowa City, Iowa**
pancreas; nucleases..ribonucleases; binding; enzymes inhibitors; proteolysis; peptides; temperature; urea

GM-06075 **WOOD, HARLAND, Sch. Med., Western Reserve Univ., Cleveland, Ohio**
ribonucleic acid; amino acid; enzymes

GM-06196 **LEHMAN, I. ROBERT, Sch. Med., Stanford Univ., Palo Alto, Cal.**
bacteria..Escherichia coli; deoxyribonucleic acid; molecular structure; nucleases..deoxyribonuclease; viruses..bacteriophage

GM-06241 **ELLIOTT, WILLARD B., Sch. Med., Univ. Buffalo, Buffalo, N.Y.**
oxidoreductases..cytochrome oxidases; detergents; temperature; oxidative phosphorylation; phospholipase; venoms; fatty acids

GM-06242 **WAKIL, SALIH J., Duke Univ. Med. Cr., Durham, N.C.**
fatty acids; enzymes; coenzymes; coenzyme A..acetyl--coenzyme A; coenzyme A..malonyl--coenzyme A; NADP(H2); palmitic acid; molecular condensations; bacteria.. Escherichia coli; vaccenic acid; reduction; ..saturated fatty acids

GM-06244 **BEHAL, FRANCIS J., Med. Col. Georgia, Augusta, Ga.**
fungi..Aspergillus niger; hydroxypyruvic acid; cell differentiation; growth, microorganisms

GM-06245 **GAWRON, OSCAR, Grad. Sch., Duquesne Univ., Pittsburgh, Pa.**
stereochemistry; oxidoreductases..succinate dehydrogenase; deuterium; chlorosuccinate

GM-06298 **McCORQUODALE, DONALD J., Sch. Med., Emory Univ., Atlanta, Ga.**
transfer ribonucleic acid; deoxyribonucleic acid; proteins; cell-free systems; amino acid; chemical structure--biological activity; fractionation; viruses..bacteriophage T5; enzymes induction

GM-06468 **RODWELL, VICTOR W., Sch. Med., Univ. California, San Francisco, Cal.**
acetoacetate; bacteria..Pseudomonas S4; mevalonic acid; NAD linked enzymes; oxidation

GM-06765 **KOEPPE, ROGER E., Oklahoma State Univ., Stillwater, Okla.**
enzymes; cell components..mitochondria; glutamates; lactates; pyrrolidone carboxylic acids; liver; muscles; glycogen; lysine; thiamine; fasting; pyruvates; brain; radiolabeled carbon; neoplasms; glutarates

GM-07023 **GELLER, DAVID M., Sch. Med., Washington Univ., St. Louis, Mo.**
bacteria..Rhodospirillum rubrum; chromatophores; enzymes inhibitors; infrared rays; phosphorylation; photochemistry; radiation effects

GM-07065 **WEST, CHARLES A., Grad. Sch., Univ. California, Los Angeles, Cal.**
plants; gibberellins; cell--free systems; radiolabeled carbon; growth inhibitors; chemical structure; growth factors; diterpenes

GM-07087 **LAW, JOHN H., Grad. Sch., Harvard Univ., Cambridge Mass.**
glycolipids; hydroxy acids; microorganisms; 10-methyl-octadecanoic acid

GM-07191 **CHARGAFF, ERWIN, Col. Phys., Surg., Columbia Univ., N.Y.C.**
cell; lipids; molecular structure; mucolipids; nucleic acids; polymers

GM-07256 **STEIN, WILLIAM H., Rockefeller Inst., New York, N.Y.**
chemical structure--biological activity; proteins; nucleases..ribonucleases; reaction sites

GM-07261 **LOWENSTEIN, JOHN M., Sch. Sci., Brandeis Univ., Waltham, Mass.**
myosin; adenosine triphosphate; conjugates; phosphatases..adenosine triphosphatase; metal; ion; chelating agents; hydrolysis

GM-07262 **CHAMBERS, ROBERT W., Sch. Med., New York Univ. Med. Cr., N.Y.C.**
ribonucleic acid; chemical structure; pseudouridine

GM-07354 **SMITH, FREDERICK G., Col. Sci., Humanities, Iowa State Univ., Ames, Iowa**
oxidoreductases..ascorbate oxidase; fungi..Myrothecium verrucaria; enzymes substrate; enzymes inhibitors; ascorbic acid

GM-07355 **REMMERT, LEMAR F., Sch. Agr., Sci., Oregon State Univ., Corvallis, Ore.**
oxidative phosphorylation; tissue respiration; electron transport; cell components..mitochondria; insecticides; insecticides resistance; food contamination; plants; insects

GM-07368 **MARKS, PAUL A., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
genetics..population genetics, human; oxidoreductases.. glucose--6--phosphate dehydrogenase; blood cells; ethnic groups; ribonucleic acid; blood cells..reticulocytes; hemoglobin; cell components..ribosomes; cell differentiation; cell components..polysomes

GM-07446 **MAGASANIK, BORIS, Massachusetts Inst. Tech., Cambridge, Mass.**
bacteria..Aerobacter aerogenes; enzymes; ..inhibitors; gluconates; glucose; glycolysis

GM-07492 **HANSCH, CORWIN H., Pomona Col., Claremont, Cal.**
auxins; chemical structure--biological activity; heavy metals; metabolites; plants; radiolabeled carbon

GM-07581 **KORNBERG, ARTHUR, Sch. Med., Stanford Univ., Stanford, Cal.**
deoxyribonucleic acid; deoxyribonucleotides; enzymes; molecular structure; viruses.. bacteriophage

GM-07627 **LESTER, ROBERT L., Univ. Kentucky Med. Cr., Lexington, Ky.**
cell components..mitochondria; lipids; microorganisms; tissue respiration

(contd)

PHYSIOLOGICAL CHEMISTRY (CONTD)

GM-07768 **HAGER, LOWELL P., Grad. Sch., Univ. Illinois, Urbana, Ill.**
oxidoreductases..pyruvate oxidase; flavin; cytochrome B; monomers

GM-07862 **BYERRUM, RICHARD U., Grad. Sch., Michigan State Univ., East Lansing, Mich.**
heterocyclic compounds; radiolabeled carbon; pyrrolidines; pyridine; plants; piperidines

GM-07918 **DANFORTH, WILLIAM F., Illinois Inst. Tech., Chicago, Ill.**
acetates; protozoa..Euglena; phosphates; high energy compounds

GM-07928 **HOAGLAND, MAHLON B., Sch. Med., Harvard Univ., Boston, Mass.**
amino acid; liver; proteins; regeneration

GM-07984 **KRINSKY, NORMAN I., Sch. Med. Tufts Univ., Boston, Mass.**
carotenoids; photosynthesis

GM-08001 **ARONSON, ARTHUR I., Purdue Univ., Lafayette, Ind.**
cell components..ribosomes; deoxyribonucleic acid; nucleic acids..hybrid nucleic acids; messenger ribonucleic acid; bacteria..Clostridium

GM-08025 **CRANE, FREDERICK L., Sch. Sci., Purdue Univ., Lafayette, Ind.**
electron transport; cell components..mitochondria; phospholipids; oxidases..cytochrome oxidases; oxidases.. tetrachlorohydroquinone oxidase; oxidative phosphorylation; heart; oxidases..NADH2 diaphorase

GM-08037 **STILLER, MARY L., Grad. Sch., Purdue Univ., Lafayette, Ind.**
algae; carbon dioxide; cell water; deuterium oxide; gases; hydrogen; oxidation-reduction; photosynthesis; radiolabeled carbon; tritium oxide

GM-08171 **NEUBERGER, ALBERT, Sch. Med., Univ. London, London, England**
glycoproteins; chemical structure; binding; peptides; carbohydrates; ovomucoid; macroglobulins; gamma globulin; amino sugars

GM-08224 **BIALE, J.B., Col. Agr., Univ. California, Los Angeles, Cal.**
phosphates; cell components..mitochondria; plants; radiolabeled phosphorus; nucleotides; hexose phosphates

GM-08321 **RILLING, HANS C., Sch. Med., Univ. Utah, Salt Lake City, Utah**
carotenoids; bacteria..Mycobacterium; photochemistry

GM-08477 **BENTLEY, RONALD, Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.**
lipids..plasma lipids; nutrition; coenzyme Q; sphingolipids; adrenal glands; unsaturated fatty acids; cholesterol; metabolites; fungi..molds; ketone bodies; hormones; enzymes; radiolabeled carbon; acetates; malonic acid; growth inhibitors; aromatic compounds

GM-08511 **KING, TSOO E., Oregon State Col., Corvallis, Ore.**
cell components..mitochondria; cyanides; cytochrome C; dehydrogenases..succinate dehydrogenase; electron transport; enzymes reconstitution; NAD linked enzymes; oxidases..cytochrome oxidases; oxidases..succinate oxidase; radiolabeled carbon; respiratory enzymes

GM-08565 **CONTI, SAMUEL F., Sch. Med., Dartmouth Col., Hanover, N.H.**
cell components; bacteria; photosynthetic bacteria; cytology; cytochrome; heme-proteins; oxidoreductases.. cytochrome oxidases; phosphorylation; photosynthesis; coenzyme; carotenoids; growth, microorganisms

GM-08624 **WALLER, GEORGE R., Sch. Agr., Oklahoma State Univ., Stillwater, Okla.**
alkaloids; deuterium; nicotinic acid; plants; pyridine; pyridine nucleotides; radiolabeled; ricinine; stable isotope labeled..carbon; stable isotope labeled..nitrogen; tissue culture

GM-08647 **CLARK, JOHN M., Jr., Col. Lib. Arts, Sci., Univ. Illinois, Urbana, Ill.**
amino acid; enzymes; pancreas; phosphodiesterases; proteins; transfer ribonucleic acid; tyrosine

GM-08685 **SUHADOLNIK, ROBERT J., Albert Einstein Med. Cr., Philadelphia, Pa.**
nucleosides inhibitors; psicofuranine; cordycepin; nucleic acids; radiolabeled carbon; psicose-1,6-diphosphates; aldolase; synthesis

GM-08705 **de DUVE, CHRISTIAN, Med. Sch., Catholic Univ., Louvain, Belgium**
cell components..lysosomes; instrumentation-methodology

GM-08706 **MERTZ, DAN, Sch. Arts, Sci., Univ. Missouri, Columbia, Mo.**
growth; cell; growth factors; growth inhibitors; gibberellins; hormones; plants; oxidation--reduction; sulfhydryls; oxidoreductases..protein disulfide reductase

GM-08738 **PICKETT, BILL W., Col. Agr., Univ. Connecticut, Storrs, Conn.**
cholesterol; fatty acids; glycerides; lipids; phospholipids; semen; spermatozoa

GM-08818 **LOOMIS, W.D., Grad. Sch., Oregon State Univ., Corvallis, Ore.**
cell-free systems; enzymes; geranyl pyrophosphate; monoterpenes; photosynthesis; plants; radiolabeled; terpenes

GM-08927 **WEILL, C. EDWIN, Newark Col. Arts, Sci., Rutgers State Univ., Newark, N.J.**
carbohydrases..β--amylase; enzyme substrate; stereochemistry; phosphorylases; maltotetraose; maltopentaose; synthesis; glycosyltransferases; oligosaccharides

GM-09038 **STEWART, JAMES A., Sch. Sci., Arts, Lit., Univ. North Dakota, Grand Forks, N.D.**
stop flow technique; hydrogen-ion concentration; reaction rates (chemistry); proteases..trypsin; proteases..chymotrypsin; acylation; amino acid sequence; esterases; instrumentation

GM-09039 **McFADDEN, BRUCE A., Grad. Sch., Washington State Univ., Pullman, Wash.**
bacteria..Pseudomonas indigofera; ketoacid lyases.. isocitrate lyases; ketoacid lyases..malate synthase

GM-09040 **MYCEK, MARY J., Seton Hall Col. Med., Jersey City, N.J.**
cell; enzymes inhibitors; oxidative phosphorylation; proteases; proteins; starvation

GM-09041 **ROSENBERG, ABRAHAM, Col. Phy., Surg., Columbia Univ., N.Y.C.**
enzymes; fractionation; molecular structure; mucolipids; polymers; tissue

GM-09042 **HOROWITZ, JACK, Grad. Sch., Iowa State Univ., Ames, Iowa**
amino acid; cell; 5-fluorouracil; molecular structure; nucleases; polynucleotides; proteins; ribonucleic acid; sulfhydryls; transfer ribonucleic acid

GM-09295 **SCHELLMAN, JOHN A., Sch. Liberal Arts, Univ. Oregon, Eugene, Ore.**
temperature; conformations (chemistry); proteins; carbohydrases..lysozyme; ovum; viruses..Bacteriophage T4

GM-09304 **STRITTMATTER, CORNELIUS F., Sch. Med., Wake Forest Col., Winston-Salem, N.C.**
embryology; flavoprotein enzymes; enzymes; cell differentiation

GM-09427 **HOTCHKISS, ROLLIN D., Rockefeller Inst., N.Y.C.**
chemical structure--biological activity; deoxyribonucleic acid; genetics..genes; nucleotide sequence

GM-09578 **ALEXANDER, JAMES K., Sch. Med., Hahnemann Med. Col., Philadelphia, Pa.**
phosphorylases..cellobiose phosphorylase; disaccharides; α--D--glucose--1--phosphate; D--glucose; D--xylose; 2--deoxyglucose; D--glucosamine; chemical structure; arabinose; D--mannose

GM-09698 **SCHWARZ, HENRY P., Philadelphia Gen. Hosp., Philadelphia, Pa.**
radiation effects; cell components..mitochondria; lipids; oxidative phosphorylation; radiolabeled phosphorus

GM-09710 **KAHN, JOSEPH S., Sch. Agr., N.C. State Col., Raleigh, N.C.**, photosynthesis; phosphorylation; adenosine triphosphate; enzymes; cell components..chloroplasts; immunological tests

GM-09822 **JUNI, ELLIOT, Sch. Med., Emory Univ., Atlanta, Ga.**
carboxylases..pyruvate carboxylase; genetics.. chromosomes; chemical structure; microorganisms; plants; reaction sites

GM-09900 **SUGINO, YUKIO, Fac. Med., Kyoto Univ., Kyoto, Japan**
deoxyribonucleic acid; thymus; enzymes; radiolabeled; viruses

GM-09901 **HANAWALT, PHILIP C., Grad. Sch., Stanford Univ., Stanford, Cal.**
deoxyribonucleic acid replication; messenger ribonucleic acid; bacteria; thymine; 5--bromo--2--deoxyuridine; cell death

GM-09902 **FOX, J. EUGENE, Grad. Sch., Univ. Kansas, Lawrence, Kansas**
tobacco; genetic strains; culture media; auxins; kinetin; plants; hormones; histogenesis

GM-09988 **BROWN, GEORGE W., Jr., Sch. Med., Univ. Texas, Galveston, Tex.**
phylogeny; vertebrates; urea; uric acid; pyrimidine; oxidoreductases..xanthine oxidase

GM-09992 **FRØHOLM, LIF O., Norwegian Defence Res. Establishment, Kjeller, Norway**
pseudouridine; nucleotides; liver; reaction rates (chemistry); enzymes; radiolabeled carbon; orotic acid

GM-09999 **DAVIS, FRANK F., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.**
transfer ribonucleic acid; nucleotides; fungi; tissue; chemical structure

GM-10044 **HALPERN, YEHESKEL S., Hadassah Med. Sch., Hebrew Univ., Jerusalem, Israel**
decarboxylases..glutamic acid decarboxylase; bacteria.. Escherichia coli; glucose; succinic acid; temperature; enzymes; genetics

GM-10094 **MELCHIOR, JACKLYN B., Chicago Col. Osteopathy, Chicago, Ill.**
enzymes substrate complex; ion; phosphotransferases.. ATP : Pyruvate phosphotransferase; potassium

GM-10121 **LAGERKVIST, ULF G., Sch. Med., Univ. Gothenburg, Gothenburg, Sweden**
transfer ribonucleic acid; nucleotide sequence; fungi.. yeasts; molecular structure; nucleotides; enzymes substrate; synthetases

GM-10129 **SAN PIETRO, ANTHONY, Charles F. Kettering Res. Lab., Yellow Springs, Ohio**
cell components..chloroplasts; hydrogen transport; reductive phosphorylation; photochemistry; reduction; NADP; reductases; reductases..cytochrome C reductase; transhydrogenases; cytochrome C; reaction sites; binding

GM-10157 **KEY, JOE L., Col. Agr., Purdue Univ., Lafayette, Ind.**
plants; growth factors; ribonucleic acid; (2,4-dichlorophenoxy) acetic acid

GM-10228 **GILMOUR, CAMBELL M., Sch. Sci., Oregon State Univ., Corvallis, Ore.**
bacteria..Pseudomonas stutzeri; carbohydrates; electron acceptors; nitrates; oxygen

GM-10317 GREENE, RONALD C., Duke Univ. Med. Cr., Durham, N.C.
S--methylmethionine; dimethyl--b--propiothetin; fungi.. yeasts; cell--free systems; algae; equilibrium constant; transmethylases..S--adenosylmethionine:methionine methyltransferase; ionic strength; amino acid; methionine; glycotransferases..methionine adenosyltransferase

GM-10374 SCHMID, KARL, Sch. Med., Boston Univ., Boston, Mass.
alpha globulin; amino acid sequence; arthritis.. rheumatoid arthritis; cancer; carbohydrates; chemical bonds; genetics; glycoproteins; hydrogen bond; longitudinal study; molecular structure; pneumonia; polypeptides; synovial fluid; synovial membranes

GM-10375 WILLSON, CLYDE D., Grad. Sch., Univ. California, Berkeley, Cal.
proteins; cell components..ribosomes; cell components.. microsomes; messenger ribonucleic acid; genetics; amino acid sequence; bacteria..Escherichia coli; radiolabeled carbon; radiolabeled phosphorus; species

GM-10376 GALSTON, ARTHUR W., Grad. Sch., Yale Univ., New Haven, Conn.
cell components..ribosomes; gibberellic acid; indole acetic acid; isozymes; molecules..macromolecules; oxidation; pectins; peroxidases; plants; proteins denaturation; radiolabeled; ribonucleic acid

GM-10390 FURTH, JOHN J., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
actinomycin; cell components..ribosomes; enzyme inhibitors; messenger ribonucleic acid; phosphotransferases..RNA nucleotidyltransferase; radiolabeled carbon; radiolabeled phosphorus; ribonucleic acid; soluble ribonucleic acid; tritium

GM-10428 BENEDICT, CHAUNCEY R., Wayne State Univ., Detroit, Mich.
carotenoids; methylation; hydroxyl groups; chlorophyll; photochemistry; bacteria..photosynthetic bacteria; enzymes

GM-10457 TIPTON, CARL L., Grad. Sch., Iowa State Univ., Ames, Iowa
protozoa..Mastigophora; lipids; cell components.. chloroplasts; chemical structure; sphingolipids

GM-10460 MAHOWALD, THEODORE A., Sch. Med., Cornell Univ., N.Y.C.
amino acid sequence; fluorodinitrobenzene; phosphotransferases..ATP : AMP phosphotransferase; phosphotransferases..ATP : creatine phosphotransferase; reaction sites

GM-10461 RAPPAPORT, HARRY P., Grad. Sch., Yale Univ., New Haven, Conn.
amino acid sequence; bacteria..Bacillus subtilis; deoxyribonucleic acid; enzymes substrate; genetic mapping; molecular weight; mutations; proteases

GM-10544 HALL, JOHN B., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii
deoxyribonucleic acid; viruses..bacteriophage PhiX174; deoxyribooligonucleotdies; radiolabeled carbon; bacteria.. Escherichia coli; 6--azauracil; microbial culture; nucleotide sequence

GM-10604 VAN KLEY, HAROLD J., Sch. Med., St. Louis Univ., St. Louis, Mo.
chemical bonds..bond cleavage; chemical structure; dipeptides; epsilon-amino acid; hydrolysis; lysine; proteins; synthesis

GM-10635 KAMEYAMA, TADANORI, Sch. Med., Kanazawa Univ., Kanazawa, Japan
cell-free systems; bacteria, Escherichia coli; carbohydrases..β-galactosidase; deoxyribonucleic acid; ribonucleic acid; ribonucleoside triphosphates

GM-10694 SIMMONS, JOHN R., Grad. Sch., Utah State Univ., Logan, Utah
bacteria..Escherichia coli; deoxyribonucleic acid; enzymes; fractionation; molecules; radiolabeled phosphorus; transformation; viruses..bacteriophage lambda; viruses..transducing viruses

GM-10705 FULLER, R. CLINTON, Dartmouth Med. Sch., Hanover, N.H.
photosynthesis; molecular structure; electron transport; bacteria..photosynthetic bacteria; adenosine triphosphate; carotenoids; chlorophyll; cell components..intracellular membranes

GM-10741 CRANE, FREDERICK L., Grad. Sch., Purdue Univ., Lafayette, Ind.
electron transport; cell components..chloroplasts; photosynthesis; oxiduction--reduction; plastiquinone; tocopherol; reductases; vitamin K

GM-10792 EATON, NORMAN R., Brooklyn Col., Brooklyn, N.Y.
carbohydrates; enzymes; fermentation; fungi..yeasts; proteins; ribonucleic acid

GM-10793 DAVIE, EARL W., Sch. Med., Univ. Washington, Seattle, Wash.
amino acid; blood coagulation..factor VIII; blood coagulation..factor IX; blood coagulation..factor X; blood coagulation..factor XI; blood coagulation..prothrombin; cell components..ribosomes; cell-free systems; diisopropylfluorophosphate; enzymes; fungi..yeasts; radiolabeled phosphorus

GM-10902 MARTIN, CHARLES J., Chicago Med. Sch., Chicago, Ill.
enzymes; enzymes inhibitors; urea; proteins denaturation

GM-10923 SUEOKA, NOBORU, Princeton Univ., Princeton, N.J.
transfer ribonucleic acid; bacteria..Escherichia coli; amino acids; fractionation; soluble ribonucleic acid; deoxyribonucleic acid; radiolabeled; genetic strains; genetics

GM-10935 NYC, JOSEPH F., Univ. California Med. Cr., Los Angeles, Cal.
fungi..Neurospora crassa; lipids; mutations; microbial culture; cell components..cell wall; membrane permeability

GM-10953 ROSENBERG, EUGENE, Col. Letters, Sci., Univ. California, Los Angeles, Cal.
deoxyribonucleic acid; nucleotides; oxidation; manganese dioxide; bacteria; enzymes; synthesis; oligonucleotides; nucleotide sequence

GM-10959 PEISACH, JACK, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
phenoloxidases..o-diphenol oxidase; copper; enzymes substrate; polyamines; polyphenols; chemical structure; enzymes inhibitors; porphyrins; proteins

GM-10982 TSUGITA, AKIRA, Enzyme Inst., Osaka Univ., Kitaku, Osaka, Japan
bacteria..Bacillus subtilis; enzymes; genetics; genetics.. genetic coding; cell--free systems; transformation; reaction sites; deoxyribonucleic acid; phosphatases; nucleases..ribonucleases; cell components..ribosomes; genetic mapping

GM-10999 LINGREL, JERRY B., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
messenger ribonucleic acid; cell components..ribosomes; proteins; binding; radiolabeled carbon; blood cells.. reticulocytes; hemoglobin; peptides; fractionation; cell differentiation; reaction sites

GM-11016 WILLIAMS, VIRGINIA R., Col. Chem., Physics, Louisiana State Univ., Baton Rouge, La.
bacteria..Bacterium cadaveris; deaminases..aspartase; deaminases..β--methylaspartase; oxidoreductases..D--amino acid oxidase; microbial culture; fractionation; metalloenzymes

GM-11023 DOTY, HELGA B., Grad. Sch., Harvard Univ., Cambridge, Mass.
ribonucleic acid; viruses..tobacco mosaic virus; cell components..ribosomes; fractionation; enzymes; chemical structure--biological activity; viruses..bacteriophage

GM-11024 OXENDER, DALE L., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
Ehrlich ascites carcinoma; bacteria..Bacillus megaterium; cell components..cell membrane; membrane permeability and transport; amino acids; pyridoxal phosphate; tritium; reaction sites; binding; fractionation

GM-11040 BRIGHT, HAROLD J., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
deaminases..β-methylaspartase; deuterium; tritium; metal; reaction rates (chemistry); computer analysis; binding

GM-11061 SMITH, EMIL L., Univ. California Med. Cr., Los Angeles, Cal.
research programs; proteins; enzymes; chemical structure --biological activity; conformations (chemistry); functional groups

GM-11067 ALBEN, JAMES O., Col. Med., Ohio State Univ., Columbus, Ohio
metalloenzymes; copper; metal complexes; phenol oxidases..tyrosinases; oxidation; phenils; functional groups; molecular structure; enzymes substrate complex; enzymes inhibitors; ligands

GM-11068 NUENKE, RICHARD H., Sch. Med., Ohio State Univ., Columbus, Ohio
phenol oxidases..Tyrosinase; metal complexes; copper; amino acid sequence; molecular weight; functional groups; binding; molecular structure

GM-11094 BOYER, PAUL D., Col. Letters, Sci., Univ. California, Los Angeles, Cal.
oxidative phosphorylation; cell components..mitochondria; histidine phosphates; enzymes; binding; myosin; stable isotope labeled oxygen; ion exchange and transport; sulfhydryls; carboxyl groups; acid--thiol ligases.. succinate : CoA ligase (ADP)

GM-11106 MASSEY, VINCENT, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
flavoprotein enzymes; oxidoreductases; electron transport; oxidation-reduction; semiquinones; instrumentation-methodology; flavin; chemical structure--biological activity

GM-11117 RICE, WILLIAM E., Beloit Col., Beloit, Wis.
amino acid sequence; fractionation; genetics; microorganisms; molecular structure; proteins; taxonomy

GM-11145 SMITH, OLIVER H., Grad. Sch. Marquette Univ., Milwaukee, Wis.
bacteria..Escherichia coli; tryptophan; radiolabeled; chemical structure..biological activity; synthesis; enzymes; enzymes inhibitors; enzymes feedback; mutations; genetics, chromosomes

GM-11146 HELLMAN, KENNETH P., Smith Col., Northampton, Mass.
tobacco; plants..roots; cell--free systems; nicotine; pyridoxine; radiolabeled carbon; enzymes; tryptophan; nicotinic acid; fractionation; fungi..yeasts

GM-11170 DEAL, W. CECIL, Jr., Col. Natural Sci., Michigan State Univ., East Lansing, Mich.
glycolysis; enzymes; molecular structure; peptides; chemical bonds..bond cleavage; fractionation; chemical structure--biological activity; functional groups; fungi.. yeasts

(contd)

PHYSIOLOGICAL CHEMISTRY (CONTD)

GM-11189 **WOOTTON, JOHN F., Sch. Vet. Med., Cornell Univ., Ithaca, N.Y.**
proteases..trypsin; acetylation; stereochemistry; thermodynamics; chemical structure--biological activity; proteins denaturation

GM-11195 **ALAUPOVIC, PETAR, Oklahoma Med. Res. Inst., Oklahoma City, Okla.**
lipopolysaccharides; bacteria, Serratia marcescens; bacteria..Escherichia coli; phospholipids; molecular weight; nitrogen compounds; light scattering; lipids; chemical structure..biological activity

GM-11246 **CANFIELD, ROBERT E., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
carbohydrases..lysozyme; chemical structure; amino acid sequence; amino acids; reaction sites; enzymes inhibition; functional groups; egg proteins; plants

GM-11269 **MOYED, HARRIS S., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
bacteria; enzyme feedback; proteins; growth, microorganisms; enzyme inhibitors; auxins; indole acetic acid

GM-11272 **ZUCKERKANDL, EMILE, Laboratoire de Physique Colloidale du C.N.R.S., Montpellier, Herault, France**
hemoglobin; proteins; amino acid sequence; chemical structure--biological activity; genetics..genes; phylogeny; species; primates..gorilla; Echinoderms; Crustaceans; fish; hair

GM-11300 **MYERS, JACK, Col. Arts, Sci., Univ. Texas, Austin, Tex.**
algae..blue-green algae; algae..Chlorella; cytochrome; electron transport; instrumentation-methodology; microbial culture; nitrogen fixation; photosynthesis; pteridines

GM-11398 **LUCKEY, THOMAS D., Univ. Missouri Med. Cr., Columbia, Mo.**
conferences; biochemistry

GM-11605 **BAER, DEE, San Diego State Col., San Diego, Cal.**
cell division..meiosis; cell division..mitosis; deoxyribonucleic acid; fungi..Neurospora crassa; genetics..chromosome replication; histones; messenger ribonucleic acid; ribonucleic acid

GM-11628 **ZIOUDROU, CHRISTINE, Sch. Med., Yale Univ., New Haven, Conn.**
covalent bonds; cyclic compounds; functional groups; metal; molecular structure; peptides; phosphorylation; proteins; stereochemistry; synthesis

GM-11632 **BRAND, LUDWIG, Johns Hopkins Univ., Baltimore, Md.**
amino acid; binding; chemical bonds; dehydrogenases.. alcohol dehydrogenase; enzymes complexes; enzymes substrate complex; fungi..yeasts; liver; reaction sites; synthesis

GM-11682 **McKAY, ROBERT H., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii**
fluorescence; spectrophotofluorometry; atomic absorption spectrometry; oxidoreductases..alcohol dehydrogenases; oxidoreductases..lactate dehydrogenase; molecular structure; reaction sites; metal complexes; proteins denaturation

GM-11691 **NICHOLLS, PETER, Sch. Med., State Univ. New York, Buffalo, N.Y.**
catalase; cytochrome C; electron donors; heme-proteins; oxidases..cytochrome C oxidase; oxidation-reduction; phosphorylation; reaction sites

GM-11698 **WANG, TUNG-YUE, Col. Arts, Sci., State Univ. New York, Buffalo, N.Y.**
cell components..ribosomes; cell components, cell nucleus; ribonucleic acid; magnesium; sedimentation constants; thymus; radiolabeled carbon; amino acid

GM-11700 **JAMIESON, G.A., American National Red Cross, National Headquarters, Washington, D.C.**
carbohydrates; ceruloplasmin; chemical bonds; glycoproteins; molecular structure; oligosaccharides; transferrin

GM-11710 **HENDERSON, L.M., Univ. Minnesota, St. Paul, Minn.**
enzymes; glutarate; 3-hydroxyanthranilic acid; liver; nicotinic acid; oxidases..aromatic acid oxidases; quinolinic acid; radiolabeled carbon; tryptophan

GM-11733 **FURT, ALVIN M., III, Sch. Med., Yale Univ., New Haven, Conn.**
spinal cord; glucose; pentose pathway; dehydrogenases.. glucose-6-phosphate dehydrogenase; glycolysis; phosphotransferases..ATP:D-fructose-6-phosphate 1-phosphotransferase; aldolases; pyridine nucleotides; cell differentiation; cell division..mitosis; nerves.. neurogenesis

GM-11736 **ASHTON, FLOYD M., Col. Agr., Univ. California, Davis, Cal.**
amino acid; embryology; hydrolysis; plants; proteases; proteins; seeds

GM-11745 **BISHOP, NORMAN I., Sch. Sci., Oregon State Univ., Corvallis, Ore.**
algae..Scenedesmus; auxotrophs; carbon dioxide fixation; mutations; oxygen transport; photochemistry; photosynthesis; reduction

GM-11764 **PLUMMER, THOMAS H., Jr., Health Research, Inc., Albany, N.Y.**
amino acid sequence; laboratory facilities; pancreatic juice; proteases..procarboxypeptidase B

GM-11810 **WHORTON, C. MERRILL, St. Vincent's Hosp., Jacksonville, Fla.**
primates..chimpanzees; myoglobin; hemoglobin; cytochrome; haptoglobin; immunology; muscle..skeletal muscle; heart..myocardium; adults; fetus; species

GM-11822 **ELLIOTT, PAUL R., Col. Arts, Sci., Univ. Florida, Gainesville, Fla.**
amino acid; arginine; bacteria..luminescent bacteria; cell division..synchronous cell division; enzymes; growth, microorganisms; luminescence..bioluminescence

GM-11823 **TAKETA, FUMITO, Sch. Med., Marquette Univ., Milwaukee, Wis.**
binding; bioassay; Bohr effect; functional groups; hemoglobin; imidazoles; mercury; oxygen; oxygenation; sulfhydryls

GM-11832 **BOBB, DOLORES, Palo Alto Med. Res. Fdn., Palo Alto, Cal.**
bacteria..Bacillus subtilis; binding; chemical structure--biological activity; deoxynucleic acid; histones; nucleic acids denaturation; transformation; proteins; proteins denaturation; proteases..chymotrypsin

GM-11838 **RHINESMITH, HERBERT S., Allegheny Col., Meadville, Pa.**
aging; amino acid sequence; fractionation; genetic strains; hemoglobin; molecular structure; molecular weight

GM-11839 **WOOD, HARLAND G., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
biotin; reaction sites; amino acid sequence; chemical structure--biological activity; transcarboxylases; carbon-carbon ligases..propionyl carboxylase; bacteria..Propionibacterium; bacteria..Mycobacterium smegmatis; bacteria.. Clostridium thermoaceticum; anaerobiosis; adenosine triphosphate; carbon dioxide fixation; acetates; fermentation; reductases; fumarate; stable isotope labeled carbon; radiolabeled carbon; tritium

GM-11888 **VEIGA, LUIZ A., Univ. Parana, Curitiba, Parana, Brazil**
laboratory facilities; galactose; fungi..Pullularia; fungi.. plant fungi; polysaccharides; oxidoreductases..galactose oxidase

GM-11905 **SLY, WILLIAM S., Sch. Med., Washington Univ., St. Louis, Mo.**
genetics..genetic coding; genetics..genome; ribonucleic acid; deoxyribonucleic acid replication; genetics.. gene expression; phosphotransferases..RNA nucleotidyltransferase; cell--free systems; viruses..bacteriophage; bacteria..Escherichia coli; viruses..noncytopathogenic; viruses..prophage

GM-11912 **BACILA, METRY, Univ. Parana, Curitiba Parana, Brazil**
bacteria; fungi..Candida; genetic strains; tissue respiration; cytochrome; respiratory enzymes; instrumentation--methodology; pigments; chemical structure--biological activity

GM-11946 **MARMUR, JULIUS, Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.**
viruses..bacteriophage; genetics; deoxyribonucleic acid; bacteria..Bacillus subtilis; transformation; kappa factor; microorganisms

GM-11947 **PUNNETT, THOMAS R., Jr., Col. Lib. Arts, Temple Univ., Philadelphia, Pa.**
cell components..cell wall; algae; amino acid; amino sugars; carotenoids; carbohydrates; phylogeny

GM-11995 **BEZKOROVAINY, ANATOLY; Presbyterian-St. Luke's Hosp., Chicago, Ill.**
blood proteins..plasma proteins; transferrin; iron; binding; reaction sites; molecular structure; glycoproteins; metal complexes; hematopoiesis, erythropoiesis; thermodynamics

GM-11999 **FISHER, HARVEY F., Sch. Med. Univ. Kansas, Kansas City, Kansas**
dehydrogenases..glutamic dehydrogenase; NAD; NADP; molecular structure; electron charge distribution; catalysis

GM-12010 **CHAMBERLIN, MICHAEL J., Univ. California, Berkeley, Cal.**
deoxyribonucleic acid; ribonucleic acid; phosphotransferases..RNA nucleotidyltransferase; molecular structure; binding; nucleotides; bacteria..Escherichia coli

GM-12042 **SCHMIDT, ROBERT R., Virginia Polytechnic Inst., Blacksburg, Va.**
algae, Chlorella; cell division, synchronous cell division; cell components; proteins; nucleotides; peptides; molecular rearrangement; sulfur; sulfur amino acids

GM-12045 **OSAWA, SYOZO, Res. Inst. Nuclear Med., Biology, Hiroshima Univ., Hiroshima, Japan**
messenger ribonucleic acid; bacteria..Escherichia coli; cell components..ribosomes; viruses..bacteriophage T2; cell--free systems; cell differentiation; radiolabeled carbon; proteins; polymerases

GM-12048 **RODWELL, VICTOR W., Univ. California Med. Cr., San Francisco, Cal.**
bacteria..Pseudomonas; amino acids; enzymes; glutamates; growth, microorganisms; radiolabeled carbon; piperidines; lysine

GM-12053 **KAJI, AKIRA, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
molecules..macromolecules; bacteria..Escherichia coli; viruses..bacteriophage; carbohydrases..β-galactosidase; proteins; deoxyribonucleic acid; messenger ribonucleic acid; antibiotics; purine analogs; pyrimidine analogs; host-virus

GM-12059 **LESLIE, JAMES, Sch. Pharm., Univ. Maryland, Baltimore, Md.**
β-lactoglobulin; molecular structure; functional groups; amino acid; proteins; chemical structure--biological activity; sulfur amino acids

GM-12157 **HERMANS, JAN, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
proteins; solutions; molecular structure; conformations (chemistry); bioenergetics; amino acids; myoglobin; hemoglobin; tyrosine; lysine; reaction sites; dissociation constants; thermodynamics

GM-12158 **JUKES, THOMAS H., Univ. California, Berkeley, Cal.**
nucleotide sequence; nucleic acids; ribonucleic acid; viruses..tobacco mosaic virus; fractionation; molecular structure

GM-12159 **SCHACHMAN, HOWARD K., Univ. California, Berkeley, Cal.**
instrumentation--methodology; laboratory facilities; molecular structure; molecules..macromolecules; optics; enzymes; proteins; nucleic acids; solutions; immunology.. antibodies

GM-12198 **KRASNA, ALVIN I., Col. Phys., Surg., Columbia Univ., N.Y.C.**
hydrogen; photosynthesis; hydrogenases; sulfhydryls; cell-free systems; algae..Scenedesmus; bacteria.. Proteus vulgaris; bacteria..Desulfovibrio desulfuricans; tritium; deuterium

GM-12223 **MAHLER, HENRY R., Grad. Sch., Indiana Univ., Bloomington, Ind.**
respiratory enzymes; deoxyribonucleic acid; ribonucleic acid; genetics..genome; chemical structure--biological activity; NAD linked enzymes; oxidoreductases..lactate dehydrogenases; fungi..yeasts; fungi..Saccharomyces cerevisiae; tritium; radiolabeled carbon

GM-12229 **ANDERSON, DAVID G., Sch. Med., Univ. Miami, Coral Gables, Fla.**
algae; marine biology; axenic culture; mevalonic acid; cell components; farnesyl pyrophosphate; terpenes.. sesquiterpenes; terpenes..diterpenes

GM-12272 **ZAUGG, WALDO S., Charles F. Kettering Fdn. Res. Lab., Yellow Springs, Ohio**
photochemistry; phosphorylation; adenosine triphosphate; reaction sites; cytochrome c; ubiquinone; chromatophores; bacteria..photosynthetic bacteria; electron transport; phenazine

GM-12273 **BLACK, CLANTON C., Jr., Charles F. Kettering Fdn., Yellow Springs, Ohio**
photochemistry; phosphorylation; adenosine triphosphate; electron transport; catalysts; algae; plants; bacteria.. photosynthetic bacteria; cell components..chloroplasts; chromatophores; radiolabeled carbon; radiolabeled phosphorus

GM-12288 **STEELINK, CORNELIUS, Grad. Sch., Univ. Arizona, Tucson, Ariz.**
plants; injuries..wounds; phenols; lignin; chemical structure; instrumentation--methodology; immunity; bacterial diseases

GM-12291 **PONTREMOLI, SANDRO, Sch. Med., Univ. Ferrara, Ferrara, Italy**
oxidoreductases..phosphogluconate dehydrogenase; molecular structure; reaction sites; amino acid sequence; carboxyl groups; enzyme substrate complex

GM-12326 **JUKES, THOMAS H., Univ. California, Berkeley, Cal.**
ribonucleic acid; deoxyribonucleic acid; phosphotransferases..RNA nucleotidyltransferase; bacteria.. Azobacter vinelandii; genetics..genetic coding; polyamines; ribopolynucleotides; binding; polyuridylic acid; enzyme inhibitors; cell components..cell nucleus

GM-12360 **ZIEGLER, DANIEL, Col. Arts, Sci., Univ. Texas, Austin, Texas**
oxygenases; cell components..microsomes; N--demethylation; oxidation--reduction; enzyme substrate; enzymes..N--oxides

GM-12371 **SPEYER, JOSEPH F., Cold Spring Harbor Lab., Quantitative Biol., Cold Spring Harbor, L.I., N.Y.**
genetics..genetic coding; genetics..genes; genetics.. sex factor; proteins; soluble ribonucleic acid; messenger ribonucleic acid; bases; molecular structure--biological activity; nitrous acid; mutation; fluorouracil; molecular size; cell components.. ribosomes; bacteria..Escherichia coli; viruses.. bacteriophage; radioisotopes; time; streptomycin; chloramphenicol

GM-12380 **FAIRLEY, JAMES L., Col. Nat. Sci., Agr., Michigan State Univ., East Lansing, Mich.**
nucleases, deoxyribonuclease; plants

GM-12440 **LENGYEL, PETER, New York Univ. Med. Cr., New York, N.Y.**
proteins; genetics..genetic coding; polynucleotides; synthesis; peptide templates; messenger ribonucleic acid; amino acid sequence; nucleotide sequence; cell-free systems; bacteria..Escherichia coli

GM-12441 **FAIRLEY, JAMES L., Col. Nat. Sci., Agr., Michigan State Univ., East Lansing, Mich.**
arginine; fungi..Neurospora crassa; genetic strains; microbial culture; antimetabolites; enzyme inhibitors; pyrimidines; aminobutyric acid; propionic acid

GM-12456 **BENNETT, J. CLAUDE, Univ. Alabama Med. Cr., Birmingham, Ala.**
gamma globulin; myeloma globulins; molecular structure; immunology..antibodies; binding; genetic strains; laboratory facilities

GM-12520 **ROBERTS, SIDNEY, Univ. California Cr. for Hlth. Sci., Los Angeles, Cal.**
proteins; amino acids; cell components..ribosomes; reaction sites

GM-12522 **UMBARGER, H. EDWIN, Sch. Sci., Purdue Univ., Lafayette, Ind.**
enzymes; enzyme inhibitors; acetohydroxybutyrate; acetolactate; bacteria..Escherichia coli; bacteria.. Enterobacteria; amino acids; reaction sites; dehydratases..threonine hydrolyase, deaminating

GM-12544 **IFFT, JAMES B., Univ. Redlands, Redlands, Cal.**
mercaptalbumin; binding; ions..anion; solutions.. aqueous solutions; bovine serum albumin; albumins.. serum albumin; conformations (chemistry); reaction sites; proteins; amino acids

GM-12551 **BURNS, RICHARD O., Grad. Sch., Duke Univ., Durham, N.C.**
deaminases..threonine deaminase; isoleucine; metabolites; enzyme inhibitors; bacteria..Salmonella typhimurium; leucine; proteins; enzymes; genetics

GM-12573 **GOLDBERG, IRVING H., Beth Israel Hosp., Boston, Mass.**
ribonucleic acid; phosphotransferases..RNA nucleotidyltransferase; HeLa cells; cell components..cytoplasm; cell components..cell nucleus; radiolabeled phosphorus; viruses..poliomyelitis virus; soluble ribonucleic acid; pseudouridine triphosphate; cell--free systems; bacteria.. Escherichia coli; bacteria..Bacillus subtilus; deoxyribonucleic acid; actinomycin; binding; transformation; radiation sensitivity; neoplasms; thyroglobulin

GM-12582 **IKAWA, MIYOSHI, Col. Agr., Univ. New Hampshire, Durham, N.H.**
lipids; bacteria; culture media; algae

GM-12607 **KONIGSBERG, WILLIAM, Sch. Med., Yale Univ., New Haven, Conn.**
proteins; amino acid sequence; conformations (chemistry); functional groups; hemoglobin; viruses.. bacteriophage; oxygenation; Bohr effect

GM-12632 **COMB, DONALD G., Harvard Med. Sch., Boston, Mass.**
cell differentiation; fungi..Blastocladiella; deoxyribonucleic acid; transfer ribonucleic acid; radiolabeled phosphorus; cell components..ribosomes

GM-12633 **ABELES, ROBERT H., Grad. Sch., Brandeis Univ., Waltham, Mass.**
isomerases..diol dehydratase; coenzyme; cobamides; acetaldehyde

GM-12656 **ALBERSHEIM, PETER, Col. Arts, Sci., Univ. Colorado, Boulder, Colo.**
pectins; chemical structure; indole acetic acid; plants; cell components..cell wall; radiolabeled carbon; phospholipids; glucose

GM-12664 **MANN, JAY D., Univ. California, Riverside, Cal.**
plants; herbicides; antimetabolites; chemical structure--biological activity; enzyme inhibitors; bioassay; toxicology

GM-12693 **MARSHALL, WILLIAM E., Veterans Admin. Hosp., Minneapolis, Minn.**
glycoproteins; oligosaccharides; chemical structure; blood..serum

GM-12717 **VASINGTON, FRANK D., Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.**
genetic mapping; genetics..complementation; mutations; chemical structure--biological activity; histidine; phosphomonoesterases..histidinol phosphatase; dehydratases..imidazoleglycerol phosphate dehydratase; bacteria.. Salmonella typhimurium

GM-12722 **BURCHFIELD, HARRY P., Southwest Research Inst., San Antonio, Tex.**
gas chromatography; amino acids; nitrogen; instrumentation--methodology

GM-12802 **BERNFELD, PETER, Bio-Research Inst., Cambridge, Mass.**
enzymes; solubility; polymers; binding; instrumentation--methodology; enzyme substrate; acrylamide; membrane models; column chromatography; carbohydrases..α--amylase; glycoproteins

GM-12805 **McCARTY, KENNETH S., Duke Univ. Med. Cr., Durham, N.C.**
ribonucleic acid; messenger ribonucleic acid; cell components..cell nucleus; cell components..ribosomes; magnesium

GM-12807 **WALKER, JAMES B., William Marsh Rice Univ., Houston, Tex.**
creatine; guanidines; diet; enzymes inhibitors; aminotransferases; liver

GM-12819 **NEURATH, HANS, Sch. Med., Univ. Washington, Seattle, Wash.**
research programs; laboratory facilities; proteins; lipids; lipoproteins; phospholipids; enzymes.. isoenzymes; enzymes..zymogens; chemical structure--biological activity; conformations (chemistry); nucleic acids; viruses..tobacco mosaic virus; photochemistry; bacteria; nickel; chromium; zinc; aminoaciduria; genetics..population genetics..human; maple syrup urine disease; pyridoxal analogs; blood coagulation; cell components..cell membrane; immunology..antibodies

GM-12820 **WILLIAMS, ROBLEY C., Grad. Sch., Univ. California, Berkeley, Cal.**
laboratory facilities; proteins; nucleic acids; antibiotics..streptomycin; mutation; genetic mapping; genetics..genome; genetics..recombination; transformation; bacteria..Escherichia coli; bacteria; photosynthetic bacteria; amino acids; oxidation; β--hydroxybutyric acid; aromatic compounds; growth..microorganisms; viruses; viruses..bacteriophage; viruses..Rous sarcoma virus; viruses..tobacco mosaic virus; transcarbamylases..aspartate transcarbamylase; feedback control; enzyme reconstitution; life cycle; host--virus; conformations (chemistry); phosphotransferases..RNA nucleotidyltransferase

PHYSIOLOGICAL CHEMISTRY (CONTD)

GM-12831 **FLEISCHER, SIDNEY,** Grad. Sch., Vanderbilt Univ., Nashville, Tenn.
lipids; cell components..mitochondria; coenzyme Q; phospholipids; micelle formation (chemistry); proteins; chemical structure; chemical bonds; molecular size; functional groups; oxidative phosphorylation; radiolabeled iodine

GM-12882 **CLARKE, DONALD D.,** Fordham Univ., Bronx, N.Y.
transglutaminase; bacteria..Salmonella typhosa; endotoxins; chemical structure--biological activity; decarboxylases..histidine decarboxylase; proteins; functional groups; liver; bioassay

GM-12922 **GOLDSTEIN, IRWIN J.,** Sch. Med., Univ. Michigan, Ann Arbor, Mich.
polysaccharides; glycosides; chemical structure; dextran; enzymes; synthesis; oligosaccharides; chemical bonds; hydrolysis

GM-12932 **JUKES, THOMAS H.,** Univ. California, Berkeley, Cal.
cell components..ribosomes; messenger ribonucleic acid; soluble ribonucleic acid; binding; oligonucleotides; peptide templates; antibiotics..puromycin; cell--free systems; genetics..genetic coding; viruses.. bacteriophage

GM-12934 **HAYASHI, MASAKI,** Univ. California, La Jolla, Cal.
viruses..bacteriophage phi--x--174; virus replication; genetics..genetic coding; deoxyribonucleic acid

GM-13018 **HOLLEY, ROBERT W.,** New York State Col. Agr., Cornell Univ., Ithaca, N.Y.
soluble ribonucleic acid; enzymes; nucleotides; nucleosides (tides) sequence; fractionation

GM-13552 **SAGER, WILLIAM F.,** Col. Liberal Arts, Sci., Univ. Illinois, Chicago, Ill.
electron charge distribution; proteases..chymotrypsin; binding

HD-00010 **CARSTEN, MARY E.,** Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
muscle..smooth muscle; uterus..myometrium; actin; myosin; oxytocin; vasopressin; muscle contraction; pregnancy; molecular structure; adenosine 3', 5'--monophosphate; binding; immunology..hapten

HD-00052 **WARREN, LEONARD,** Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
protein--bound carbohydrates; cell components..cell wall; sialic acids; sugar; glycoproteins; chemical structure--biological activity; viruses; blood cells..erythrocytes; membrane permeability and transport; immunology; L--cells; bacteria..Clostridium perfringens; enzymes; carbohydrases..glycosidases; marine biology

HD-00078 **COSTLOW, JOHN D., Jr.,** Sch. Arts, Sci., Duke Univ. Marine Lab., Beaufort, N.C.
bile acids and salts; embryology; hemocyanin; life cycle; marine biology; metamorphosis; proteins; sterols

HD-00122 **FEENEY, ROBERT E.,** Grad. Sch., Univ. California, Davis, Cal.
conalbumin; disulfides; egg proteins; enzymes inhibitors; milk; molecular structure; ovomucoid; proteases; reaction sites; sulfhydryls; transferrin

HD-00375 **NEMETH, ANDREW M.,** Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
fetus; liver; enzymes; genetics

HD-00494 **ZORZOLI, ANITA,** Vassar Col., Poughkeepsie, N.Y.
liver; aging; NAD; oxidation--reduction; NADP(H2); fasting; phosphomonoesterases..glucose--6--phosphatases; phosphomonoesterases..acid phosphatase; isomerases..triose phosphate isomerase; oxidoreductases..dehydrogenases; dehydratases..L--malate hydrolyase; phosphotransferases.. ATP; pyruvate phosphotransferase; kidney..renal cortex

HD-00979 **ZELLER, ALBERT,** Sch. Med., Northwestern Univ., Chicago, Ill.
oxidoreductases..amine oxidases; sex hormones; binding; reaction sites; species; age; pregnancy; sex difference; gonadectomy

HD-00988 **GOTTLIEB, DAVID,** Grad. Col., Univ. Illinois, Urbana, Ill.
enzymes; tissue respiration; cell differentiation; cell age; life cycle; fungi..Penicillium

HD-01066 **ELDEN, HARRY R.,** Sch. Med., Univ. Miami, Coral Gables, Fla.
skin; collagen; mucopolysaccharides; molecules.. macromolecules; binding; functional groups; elasticity; aging; connective tissue disorders; folic acid antagonists; thyroxine; ACTH; diuretics

HD-01233 **CHRISTENSEN, HALVOR N.,** Sch. Med., Univ. Michigan, Ann Arbor, Mich.
cell components..cell membrane; amino acids; molecular structure; neoplastic cells; blood cells..erythrocytes; membrane permeability and transport; intestinal absorption; pyridoxal; Ehrlich ascites carcinoma; bacteria; aminocyclopentane carboxylic acids; insulin; kidney.. renal tubular transport; ethyl maleimide; fluorinated amino acids; polypeptides..unnatural polypeptides; alpha--aminoisobutyric acid

HD-01247 **JENCKS, WILLIAM P.,** Brandeis Univ., Waltham, Mass.
high energy compounds; catalysts; enzymes; hydrolysis; thioesters; semicarbazones; esters; acetyl phosphate; proteases..chymotrypsin; proteases..acyl chymotrypsins

HD-01250 **RUTTER, WILLIAM J.,** Univ. Illinois, Urbana, Ill.
phylogeny; embryology; aldolases; metalloenzymes; fungi.. yeasts; bacteria..Clostridium perfringens; chemical structure

HD-01258 **GROSSMAN, LAWRENCE,** Grad. Sch., Brandeis Univ., Waltham, Mass.
tritium; ribonucleotides; deoxyribonucleotides; enzymes

HD-01262 **KAMEN, MARTIN D.,** Sch. Sci., Eng., Univ. California, La Jolla, Cal.
electron transport; hematin; bacteria..photosynthetic bacteria; heme-proteins; tissue; enzymes; photosynthesis; chemical structure

HD-01268 **SCARANO, EDUARDO,** Sch. Med., Univ. Naples, Naples, Italy
nucleic acids; cell division; enzymes; embryo; deaminases..2'--deoxycytidine--5'--phosphate deaminase; cell differentiation

HD-01491 **MIRAS, CONSTANTINOS,** Alexandra Hosp., Athens, Greece
aging; nerves..demyelination; cerebrosides; fatty acids; hydroxy acids; decarboxylases; molecular structure; brain; cell components..microsomes

HD-01610 **BERGREN, WILLIAM R.,** Childrens Hosp., Los Angeles, Cal.
metabolic diseases, inborn; genetics..phenotypes; children; blood..plasma; choline esterase; apnea; paralysis; muscular diseases; succinyl choline; drugs hypersensitivity

HE-00891 **KIRK, JOHN E.,** Sch. Med., Washington Univ., St. Louis, Mo.
arteries..coronary arteries; arteries..pulmonary artery; arteries..aorta; enzymes; coenzymes; age; arteriosclerosis; heparin; mucopolysaccharides

HE-01525 **MILLER, O. NEAL,** Sch. Med., Tulane Univ., New Orleans, La.
enzymes; heart..myocardium; 1,2-propanediol-1-phosphate

HE-01614 **ANKER, HERBERT S.,** Grad. Sch., Univ. Chicago, Chicago, Ill.
cell components..mitochondria; cytology; fatty acids; lipogenin; liver

HE-01624 **BORSOOK, HENRY,** California Inst. Tech., Pasadena, Cal.
amino acid; blood cells..erythrocytes; blood cells.. reticulocytes; cytology; genetics..chromosomes; growth; hemoglobin; proteins; radiolabeled carbon

HE-01675 **DU VIGNEAUD, VINCENT,** Sch. Med., Cornell Univ., New York, N.Y.
amino acids; polypeptides; oxytocin; vasopressin analogs; tritium; leucine; oxytocin analogs; synthesis; chemical structure--biological activity; deamino--oxytocin; deamino--deoxy--oxytocin; 1--deamino--8--lysine vasopressin

HE-01731 **LANGDON, ROBERT G.,** Sch. Med., Johns Hopkins Univ., Baltimore, Md.
lipids; reductases..glutathione reductase; thyroxine; radiolabeled carbon; triglycerides; adipose tissue; brain; chemical structure; enzymes

HE-01813 **HAUGAARD, NIELS,** Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
heart..myocardium; heart function; cardioactive agents; phosphorylases; nervous system..sympathetic nervous system; glucose; epinephrine; oxidation; diabetes.. alloxan diabetes

HE-01875 **FRANTZ, IVAN D., Jr.,** Sch. Med., U. Minnesota, Minneapolis, Minn.
cholesterol; radiolabeled; triparanol; enzymes; infrared spectrometry; hydroxylation reactions

HE-02063 **MARINETTI, GUIDO V.,** Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
heart..myocardium; lipids; phospholipids; glycerin; serine; fatty acids; plasmalogens; electron transport; cell components..mitochondria; lysolecithins; phospholipases; radiolabeled; venoms; bacteria; membrane

HE-02477 **BLOCH, CONRAD E.,** Grad. Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
bacteria; lipids; sterols; unsaturated fatty acids

HE-02772 **LUNDBERG, WALTER O.,** The Hormel Inst., Austin, Minn.
atherosclerosis; cholesterol; diet; fats

HE-02942 **BERENSON, GERALD S.,** Sch. Med., La. State Univ., New Orleans, La.
connective tissue; cardiovascular diseases; arteries.. aorta; mucopolysaccharides; glycoproteins; atherosclerosis; inflammation

HE-03226 **WOLFE, RAYMOND G., Jr.,** Grad. Sch., Univ. Oregon, Eugene, Ore.
dehydrogenases..malate dehydrogenase; heart; hydrogen-ion concentration

HE-03312 **FOX, ARTHUR C.,** Sch. Med., New York Univ., N.Y.C.
heart..myocardium; heart failure..congestive heart failure; nucleotides; radiolabeled phosphorus

HE-03457 **SCHMIDT, GERHARD,** Boston Dispensary, Boston, Mass.
glycerophosphates; radiolabeled phosphorus; phospholipids; cell--free systems; oxidative phosphorylation; muscle..skeletal muscle; heart..myocardium; glyceryl-phosphorylcholine; mucous membrane; sphingosine; sphingolipids; lysolecithin; intestines

HE-04138 **WRIGHT, LEMUEL D.,** Grad. Sch. Nutr., Cornell Univ., Ithaca, N.Y.
ribonucleic acid; phosphatases..adenosine triphosphatase; mevalonic acid; cholesterol

HE-04219 **GIBSON, DAVID M.,** Indiana Univ. Med. Cr., Indianapolis, Ind.
fatty acids; enzymes; linoleic acid; dietary deficiency; guanosine triphosphate; acid-thiol ligases

HE-04417 **JENKINS, W. TERRY, Sch. Letters, Sci., Univ. California, Berkeley, Cal.**
aminotransferases; molecular structure; enzyme inhibitors; enzyme substrate; pyridoxine

HE-04442 **RABINOWITZ, MURRAY, Univ. Chicago, Chicago, Ill.**
nucleoside--3',5'--monophosphates; pseudouridine; pseudouridine monophosphates; enzymes; phosphodiesterases; epinephrine; glucagon; hormones; ribonucleic acid; soluble ribonucleic acid; coenzyme; cells; chemical bonds..bond cleavage; deoxyribonucleic acid; cell components..mitochondria

HE-04569 **CAHILL, GEORGE F., Jr., Baker Clinic Res. Lab., Boston, Mass.**
adipose tissue; blood vessels; hormones; lipids

HE-04622 **BURDETTE, WALTER J., Sch. Med., Univ. Utah, Salt Lake City, Utah**
heart..myocardium; heart arrest; nucleotides

HE-04977 **OGILVIE, JAMES W., Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
cholesterol; cholesterol inhibitors; mevalonic acid

HE-04978 **SGOURIS, JAMES T., Michigan Dept. Hlth., Lansing, Mich.**
plasminokinases..urokinase; urine; chemical structure

HE-05095 **CLELAND, WILLIAM W., Col. Agr., Univ. Wisconsin, Madison, Wis.**
enzymes; phosphatidic acids; synthesis; coenzyme A acyl-coenzyme A thioesters; cell components..microsomes

HE-05212 **TSUBOI, KENNETH K., Sch. Med., Stanford Univ., Palo Alto, Cal.**
heart; nucleotides; heart function; heart failure; muscle proteins; cardioactive agents; membrane permeability and transport

HE-05268 **BUEDING, ERNEST, Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.**
carbohydrates; muscle..smooth muscle; muscle contraction; electrophysiology

HE-05293 **SCHWEET, RICHARD S., Col. Med., Univ. Kentucky, Lexington, Ky.**
hemoglobin; cell-free systems; blood cells..reticulocytes; cell components..ribosomes; guanosine triphosphate; bacteria..Escherichia coli; ribonucleic acid

HE-05305 **SCHRIER, STANLEY L., Sch. Med., Stanford Univ., Palo Alto, Cal.**
blood cell..erythrocytes; cell components..cell membrane; radiolabeled phosphorus; immunology..antibodies; spherocytosis; hemoglobinuria..paroxysmal nocturnal hemoglobinuria; hemolytic anemia; membrane permeability and transport; thalassemia; phosphates; hematopoietic tissues; enzymes

HE-05473 **JOHNSON, RALPH M., Ohio State Univ. Res. Fdn., Columbus, Ohio**
liver; cell components..mitochondria; fatty acids; dietary deficiency; oxidative phosphorylation; unsaturated fatty acids

HE-05514 **STRITTMATTER, PHILIPP, Washington Univ., St. Louis, Mo.**
binding; cell components..microsomes; cytochrome; electron transport; flavin; flavoproteins; enzymes; heme; pyridine nucleotides; reductases..cytochrome β5 reductases

HE-05735 **PRIVETT, ORVILLE S., The Hormel Inst., Austin, Minn.**
ozone; molecular structure; fatty acids; lecithins; cephalins; triglycerides; phospholipase

HE-05791 **BENESCH, RUTH E., Col. Phys., Surg., Columbia Univ., N.Y.C.**
amino acid; binding; Bohr effect; heme; hemoglobin; hemoglobin-H; oxygen; reaction sites

HE-05928 **TODD, DAVID, Grad. Sch., Worcester Poly. Inst., Worcester, Mass.**
synthesis; alkoxyacetylenes; α-glyceryl ethers; chemicals standardization; radiolabeled carbon; plasmalogens

HE-06080 **LINKER, ALFRED, Col. Med., Univ. Utah, Salt Lake City, Utah**
chemical structure; mucopolysaccharides; connective tissue; carbohydrases..hyaluronidase; heparin; heparitin sulfate; lipochondrodystrophy

HE-06117 **JACQUES, LOUIS B., Col. Med., Univ. Saskatchewan, Saskatoon, Saskatchewan, Canada**
heparin; chemical structure--biological activity; electrolytes; blood cells, basophil leukocytes

HE-06221 **ALAUPOVIC, PETER, Okla. Med. Res. Inst., Oklahoma City, Okla.**
chemical structure; lipoproteins..serum lipoproteins; binding; phospholipids; triglycerides; cholesterol; cholesterol esters

HE-06410 **LOTSPEICH, FREDERICK J., Sch. Med., West Virginia Univ., Morgantown, W. Va.**
carotenes

HE-06717 **MONTGOMERY, REX, Sch. Med., State Univ. Iowa, Iowa City, Iowa**
carbohydrates; blood coagulation, prothrombin; blood coagulation..fibrinogen; blood disorders; blood coagulation, fibrin

HE-06809 **WHITE, HAROLD B., Jr., Sch. Med., Univ. Mississippi, Jackson, Miss.**
unsaturated fatty acids; molecular structure; marine oils; radiolabeled carbon; chemical bonds

HE-06911 **HAAHTI, EERO O.A., Univ. Turku, Turku, Finland**
lipids; sterols; esters; triglycerides; atherosclerosis; skin; gas chromatography; instrumentation-methodology

HE-06924 **RABEN, MAURICE S., New England Cr. Hosp., Boston, Mass.**
heart; proteins; heart enlargement; amino acid; radiolabeled; heart function; fatty acids

HE-06926 **MESTER, LASZLO, Inst. Chimie Sub. Natl., Gif-sur-Yvette, France**
carbohydrates; binding; proteins; blood coagulation..fibrinogen; oxidation; chemical bonds

HE-07149 **KELLEY, THOMAS F., Bio-Res. Inst., Cambridge, Mass.**
lipoproteins; lipases..lipoprotein lipase; phospholipases

HE-07353 **MALLIN, MORTON L., May Inst. Med. Res., Cincinnati, Ohio**
arteries; hypertension, systemic; enzymes; actomyosin; calcium; adenosine triphosphate; tropomyosin; M--B factor; phosphatase..adenosine triphosphatase; magnesium

HE-07468 **OLSON, ROBERT E., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.**
cell components; heart..myocardium; lipids; lipoproteins; muscle..sarcosomes

HE-07514 **DANISHEFSKY, ISIDORE, New York Med. Col., N.Y.C.**
bacteria..Serratia marcescens; chemical structure; fractionation; fungi..Cryptococcus neoformans; glycoproteins; heparin; hyaluronic acid; hydrolysis; Marfan syndrome; methylation; mucin; polysaccharides; synovial fluid

HE-07601 **AZARNOFF, DANIEL L., Univ. Kansas Med. Cr., Kansas City, Kans.**
cholesterol; cholesterol inhibitors; reaction sites; toxicology; liver; adrenal glands; diet; atherosclerosis; squalene; acetates; mevalonic acid; benzmalecene; hypercholesteremia; sterols; arteries..aorta; intestines; diabetes; 2--diethylaminoethyl--2,2--diphenyl valerate; testololactone

HE-07607 **FITZPATRICK, MARTIN J., Will Rogers-O'Donnell Res. Lab., Saranac Lake, N.Y.**
aging; amino acid analyzer; arteries..aorta; atherosclerosis; chemical structure; elastin; lung

HE-07641 **MORIYA, HIROSHI, Tokyo Col. Science, Shinjukuku, Tokyo, Japan**
kallicrein; body fluids; pancreas; chemical structure; proteases..peptidases

HE-07690 **HIGUCHI, WILLIAM I., Col. Pharm., Univ. Michigan, Ann Arbor, Mich.**
cholesterol; crystallization; solubility; Coulter Counter

HE-07951 **COHEN, JULES, Sch. Med., Univ. Rochester Med. Cr., Rochester, N.Y.**
adenosine monophosphate; cell components..ribosomes; enzymes; guanosine triphosphate; heart enlargement; heart..myocardium; muscle contraction; muscle..myofibrils; muscle proteins; phosphotransferases..RNA nucleotidyltransferase; radiolabeled carbon

HE-07993 **GARCIA-HERNANDEZ, MARIO, Centro de Investigacion del I.P.N., Mexico, D.F.**
oxidative phosphorylation; cytochrome C; oxygen; anaerobiosis; aerobiosis; muscle; embryology; tissue respiration; epinephrine; acetylcholine; electron transport; heart

HE-08061 **GAMBLE, WILBERT, Grad. Sch., Oregon State Univ., Corvallis, Ore.**
blood vessels; tissue respiration; glycolysis; Krebs cycle; radiolabeled carbon; antimetabolites; oxidative phosphorylation; adenosine phosphates; cholesterol; nucleic acids

HE-08105 **CONWAY, GENE F., Vet. Administration Hosp., Cincinnati, Ohio**
actin; binding; heart..ventricles; heart failure; muscle contraction; myosin; valvular heart diseases..mitral insufficiency

HE-08304 **WALTER, HARRY, Veterans Admin. Hosp., Long Beach, Cal.**
blood cells..erythrocytes; cell age; hemoglobin; fractionation; enzymes; molecular structure; amino acids; radiolabeled iodine; chemical structure--biological activity

HE-08476 **GOULD, R. GORDON, Sch. Med., Stanford Univ., Palo Alto, Cal.**
binding; blood proteins..plasma proteins; cholesterol; lipoproteins; stereochemistry; steroids

HE-08515 **KATZ, ARNOLD M., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
actomyosin; muscle contraction; heart failure; phosphatases..adenosine triphosphatase; ions..bivalent cations; cardiac glycosides; amino acid sequence; muscles.. skeletal muscle; heart..myocardium; actin; myosin; tropomyosin

HE-08634 **DEMPSEY, MARY E., Univ. Minnesota, Minneapolis, Minn.**
cholesterol; squalene; 7-cholestene-3-ol; oxidoreductases; coenzyme; enzymes inhibitors; radiolabeled carbon

HE-09016 **CHO, YOUNG W., Philadelphia Gen. Hosp., Philadelphia, Pa.**
heart..myocardium; muscle contraction; proteins; cell components..mitochondria; electron transport; heart failure; histamine; serotonin; shock

(contd)

PHYSIOLOGICAL CHEMISTRY (CONTD)

HE-09172 **RABINOWITZ, MURRAY**, Sch. Med., Univ. Chicago, Chicago, Ill.
heart..myocardium; muscle..myofibrils; cell differentiation; ribonucleic acid; proteins; reaction sites; cell components..ribosomes; cell components..mitochondria; tissue culture; actinomycin D; heart function; radiolabeled carbon; stress; heart diseases

HE-09267 **PRADO, JOSE L.**, Escola Paulista de Medicina, Sao Paulo, Brazil
kallikrein; proteolysis; chemical structure--biological activity; laboratory facilities

HE-09282 **VELICK, SIDNEY F.**, Col. Med., Univ. Utah, Salt Lake City, Utah
enzymes; proteins; immunology..antigen--antibody reactions; instrumentation--methodology

HE-09596 **MARGOLIS, SIMEON**, Johns Hopkins Hosp., Baltimore, Md.
lipoproteins..serum lipoproteins; chemical structure; binding

MH-01947 **WESTERFELD, W.W.**, Research Fdn., State Univ. New York, Albany, N.Y.
ethanol; liver; kidney

MH-04559 **SCHULMAN, MARTIN P.**, Col. Med., Univ. Illinois, Chicago, Ill.
ethanol; lactates; enzymes; liver; radiolabeled carbon

MH-04591 **ROBINS, ELI**, Sch. Med., Washington Univ., St. Louis, Mo.
brain; autopsy; psychoses; alcoholism; senile dementia; body fluids; psychiatric patients

MH-06309 **SIEHR, DONALD J.**, Grad. Sch., Univ. Missouri, Rolla, Mo.
fungi..Hydrophorus conicus; microbial culture; oxido-reductases; indole acetic acid

MH-10227 **SIMON, ERIC J.**, New York Univ. Med. Ctr., New York, N.Y.
morphine analogs; chemical structure--biological activity; bacteria..Escherichia coli; cell components..ribosomes; soluble ribonucleic acid; membrane permeability and transport; messenger ribonucleic acid; cell division..synchronous cell division; cell--free systems

NB-00130 **FOLCH-PI, JORDI**, McLean Hosp., Belmont, Mass.
brain; lipids; lipoproteins; molecules..macromolecules; chemical structure; chemical bonds; cerebrosides; sulfolipids; biological compounds preparation; proteolipids

NB-00356 **SCHMIDT, GERHARD**, Boston Dispensary, Boston, Mass.
brain; radiolabeled phosphorus; phospholipids; nerves..myelin; plasmalogens; chemical structure; sphingolipids; gangliosides; brain disorders

NB-00573 **WILSON, IRWIN B.**, Col. Phys., Surg., Columbia Univ., N.Y.C.
cholinesterases..acetylcholinesterase; nervous system; carbamic acid; myasthenia gravis; proteases, mono-acetyl chymotrypsin; phosphatases

NB-00574 **CARTER, HERBERT E.**, Grad. Sch., Univ. Illinois, Urbana, Ill.
chemical structure; corn; glycolipids; lipoproteins; phytosphingosine; plants, sphingolipids

NB-00976 **SCHWARZ, HENRY P.**, Philadelphia Gen. Hosp., Philadelphia, Pa.
lipids; brain; nervous system disorders; aging; sphingolipids; phospholipids; fatty acids; nerves..demyelination

NB-01006 **NORTON, MARCUS T.**, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
lipids; nervous system..central nervous system; plasmalogens; amaurotic familial idiocy; cell components..granules; gangliosides; hydrolysis; immunology..antibodies; cell components..cell membrane; nerves..neurons

NB-01365 **BESSMAN, SAMUEL P.**, Sch. Med., Univ. Maryland, Baltimore, Md.
tryptophan; indoluria; phenylketonuria; ammonia; brain; toxicology; imidazoles; histidine; anesthesia; gamma-hydroxybutyric acid

NB-01570 **RAPPORT, MAURICE M.**, Col. Med., Yeshiva Univ., N.Y.C.
plasmalogens; brain; chemical structure; enzymes; marine biology; phospholipids

NB-01572 **FELLMAN, JACOB H.**, Sch. Med., Univ. Oregon, Portland, Ore.
serotonin; oxidation enzymes; blood..plasma; brain; melanin; acylation; acetylcholine

NB-01575 **BURTON, ROBERT M.**, Sch. Med., Washington Univ., St. Louis, Mo.
gangliosides; cerebrosides; amaurotic familial idiocy; Gaucher's disease; chemical structure; enzymes; blood cells..erythrocytes; glycolipids

NB-01615 **ROBERTS, EUGENE**, City of Hope Med. Ctr., Duarte, Cal.
gamma-aminobutyric acid; aminotransferases..gamma-aminobutyric acid-α-ketoglutarate transaminase; brain; decarboxylases..glutamic acid decarboxylase; hydroxylamine; Krebs cycle; nitrogen

NB-01733 **PORTER, HUNTINGTON**, New England Ctr. Hosp., Boston, Mass.
brain; copper; hepatolenticular degeneration; hypercupremia; liver; proteins

NB-01900 **SPECTOR, ABRAHAM**, Massachusetts Eye, Ear Infirmary, Boston, Mass.
amino acid; carbohydrates; esterases; eye..lens; glutathione; high energy compounds; proteases..peptidases; proteins

NB-01935 **SOBOTKA, HARRY H.**, Mount Sinai Hosp., New York, N.Y.
nerves degeneration..Wallerian degeneration; phosphatases; nucleases; carbohydrases..β-glucuronidase; esterases..nerves..demyelination; macrophages; thorotrast; folic acid; enzymes

NB-01984 **BASFORD, ROBERT E.**, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
brain; cell components..mitochondria; lipids; enzymes; electron transport; fractionation; pyridine nucleotides; flavin; cytochrome; metal coenzyme Q; dehydrogenases

NB-02476 **NORTON, WILLIAM T.**, Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.
nervous system..central nervous system; nerves..myelin; lipoproteins; lipopeptides; chemical structure; glycolipids

NB-02769 **FUTTERMAN, SIDNEY**, Massachusetts Eye and Ear Inf., Boston, Mass.
eye..retina; retinene; vitamin A; esters

NB-02794 **SRIBNEY, MICHAEL**, Sch. Med., Yale Univ., New Haven, Conn.
liver; nervous system; Niemann-Pick disease; sphingomyelin; spleen

NB-02840 **FOLCH-PI, JORDI**, McLean Hosp., Waverly, Mass.
mucolipids; nervous system; strandin; chemical structure; molecular weight; N-acetylneuraminic acid; peptides; hexosamines; gangliosides

NB-02917 **BONAVITA, VINCENZO**, Univ. Palermo, Palermo, Italy
brain; brain neoplasms; dehydrogenases..lactate dehydrogenase; dehydrogenases..malate dehydrogenase; isozymes; nerves..neurogenesis; nervous system..peripheral nerves; phylogeny

NB-02946 **KENNEDY, EUGENE P.**, Sch. Med., Harvard Univ., Cambridge, Mass.
sphingolipids; phospholipids; brain; nerves; liver; enzymes; bacteria

NB-03085 **GARRIGAN, OWEN W.**, Grad. Sch., Seton Hall Univ., South Orange, N.J.
mucolipids; cerebrosides; fatty acids; species; brain; amino acid

NB-03101 **AGRANOFF, BERNARD W.**, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
phospholipids; brain; phosphatidyl inositol; liponucleotides; cytidine phosphates

NB-03191 **SPERRY, WARREN M.**, Res. Fdn. Mental Hygiene, Middletown, New York
gangliosides; brain; chemical structure; amaurotic familial idiocy; tritium; radiolabeled carbon; sphingosine; plasmalogens; synthesis; phytosphingosine; fungi..yeasts; enzymes; choline; ethanolamines; enzymes substrates; enzymes substrates analogs; enzymes inhibitors; convulsions

NB-03192 **RADIN, NORMAN S.**, Med. Sch., Univ. Michigan, Ann Arbor, Mich.
brain; glycolipids; radiolabeled carbon; radiolabeled sulfur; hydroxy acids; sulfolipids; chronic disease; diet; aging; drugs; enzymes; fatty acids

NB-03226 **LAJTHA, ABEL**, New York State Res. Inst., Ward's Island, New York, N.Y.
proteases; brain; enzyme substrate

NB-03304 **NACHMANSOHN, DAVID**, Col. Phys., Surg., Columbia Univ., New York, N.Y.
acetylcholine; choline esterase..acetylcholinesterase; cholinergic receptors; nerve impulse transmission; nerves..axons; nerves..synaptic vesicles; ion exchange and transport; chemical structure--biological activity; potentials..membrane potentials; anesthetics; electric organ; toxins; transacylases..choline transacylase; reaction sites; conformations (chemistry)

NB-03523 **WITTING, LLOYD A.**, Elgin State Hosp., Elgin, Ill.
lipids; brain; fatty acids; nerves..myelination; fetus; infant animals

NB-03740 **TALMAN, ELLEN L.**, Med. Res. Fdn. Oregon, Portland, Oregon
embryology; eye..lens; galactose; glucose; isomerases..uridine diphosphogalactose-4-epimerase; phosphotransferases..UTP:α-D-galactose-1-phosphate uridylytransferase; primates..monkeys; xylose

NB-03911 **PAPADOPOULOS, NICK M.**, Med. Col. Virginia, Richmond, Va.
lipids; cerebrospinal fluid; brain; proteins

NB-03973 **HUGGINS, CLYDE G.**, Sch. Med., Tulane Univ., New Orleans, La.
secretory mechanisms; inositol phosphates; phosphatidopeptides; phosphatidic acids; pancreas; salivary glands; enzymes; nerves..denervation; muscle

NB-04152 **HOTTA, SHOICHI S.**, Sch. Med., Cornell Univ., New York, N.Y.
tissue respiration; brain; glucose; radiolabeled carbon; glutamates; α--ketoglutarate; insulin

NB-04191 **BERNSOHN, JOSEPH**, Sch. Med., Northwestern Univ., Evanston, Ill.
brain; brain disorders; multiple sclerosis; nerves..demyelination; esterases; phosphatases; histogenesis, enzymes..isoenzymes

NB-04270 **LEDERBERG, JOSHUA**, Sch. Med., Stanford Univ., Stanford, Cal.
amino acid; brain; brain disorders; embryology; genetics; instrumentation--methodology; proteins; radiolabeled carbon; research programs; stable isotope labeled nitrogen

NB-04277 **FELDMAN, GERALD L.**, Sch. Med., Baylor Univ., Houston, Tex.
lipids; enzymes; adipose tissue; 2,4-dinitrophenol; cataract; histogenesis; fractionation

NB-04360 LAJTHA, ABEL, Res. Fdn. Mental Hygiene, Ward's Island, N.Y.
blood--brain barrier; homeostasis; amino acids; diffusion; cell components..intracellular membranes; antimetabolites

NB-04394 SCHWARZ, HENRY P., Philadelphia Gen. Hosp., Philadelphia, Pa.
brain disorders; lipids; multiple sclerosis; nerves.. demyelination; radiolabeled carbon

NB-04551 DEITRICH, RICHARD A., Univ. Colorado Med. Cr., Denver, Colo.
aldehydes; oxidoreductases..aldehyde dehydrogenases; tissue; oxidation; enzymes; enzymes substrate; enzymes inhibitors; neoplasms; bioassay

NB-04591 KERN, HAROLD L., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
eye..cornea; mucuproteins; carbohydrates; amino acid; blood..plasma; eye..aqueous humor; growth

NB-04593 MOSCATELLI, EZIO A., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
brain..cerebrum; carbohydrates; lipids; phosphatidopeptides; enzymes; leukodystrophy; multiple sclerosis; Parkinson's disease; sphingolipidosis; mental retardation; molecular structure; sphingolipids

NB-04825 STARY, ZDENKO, Warren State Hosp., Warren, Pa.
arabinose; brain; carbohydrates; galacturonic acid; glycoproteins; molecules..macromolecules; mucopolysaccharides; mucoproteins

NB-04834 LEDEEN, ROBERT W., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
amaurotic familial idiocy; brain..cerebral cortex; chemical structure; fractionation; functional groups; gangliosides; stereochemistry

NB-04903 D'ADAMO, AMEDEO F., Jr., Albert Einstein Col., Yeshiva Univ., N.Y.C.
brain; cell components..mitochondria; chemical structure--biological activity; coenzyme A..acetyl-coenzyme A; enzymes; hydrogen transport; lipids; liver; NADP; nerves ..myelin; nerves..neurons

NB-05015 SWAIMAN, KENNETH F., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
alanine; amino acid; aspartic acid; brain; decarboxylation; glucose; glutamates; infants, animals..newborn; Krebs cycle; oxidation

NB-05020 COHEN, MAYNARD M., Presbyterian-St. Luke's Hosp., Chicago, Ill.
amino acid; aspartic acid; brain..cerebrum; cell components..mitochondria; dehydrogenases..glutamic dehydrogenase; glucose; Krebs cycle; oxygen consumption; radiolabeled carbon; radiolabeled phosphorus

NB-05023 BRUNNGRABER, ERIC G., Illinois State Psychiatric Inst., Chicago, Ill.
brain; molecules..macromolecules; carbohydrates; mucopolysaccharides; nucleic acids; proteins; enzymes; chemical structure; fractionation; lipids

NB-05030 POSNER, JEROME B., Col. Med., 525 East 68th St., N.Y.C.
adenosine 3',5'-monophosphate; bioassay; brain; brain ischemia and hypoxia; enzymes inhibitors; glycogen; glycogenolysis; metabolic diseases; neurohormones; phosphorylases..glycogen phosphorylase; phosphotransferase

NB-05052 BERRY, JAMES F., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
lipids; nerves..demyelination; cholesterol esters; esterases; acetates; palmitic acid; stearic acid; serine; sphingosine; radiolabeled carbon

NB-05062 BESSMAN, SAMUEL P., Rosewood State Hosp., Owings Mills, Md.
aminoaciduria; aspartic acid; brain; cerebrospinal fluid; creatinine; glutamates; gamma-hydroxybutyric acid; mental disorders; mental retardation; nitrogen; radiolabeled carbon; sleep; tritium

NB-05074 BRECHER, ARTHUR S., Sch. Med., George Washington Univ., Washington, D.C.
proteins; brain; cell components..mitochondria; cell components..microsomes; proteases..cathepsins; fractionation; enzymes inhibitors

NB-05104 DAIN, JOEL A., Col. Arts, Sci., Univ. Rhode Island, Kingston, R.I.
glycolipids; gangliosides; fractionation; chemical structure --biological activity; brain; mental retardation

NB-05222 McCLUER, ROBERT H., Ohio State Univ. Res. Fdn., Columbus, Ohio
brain; gangliosides; immunology..Rh antibodies; chemical structure--biological activity; membrane permeability and transport; age; brain ischemia and hypoxia; oligosaccharides; therapy evaluation; reaction sites; radiolabeled carbon; n-acetylneuraminic acid

NB-05300 McKHANN, GUY M., Sch. Med., Stanford Univ., Stanford, Cal.
nerves..myelination; leukodystrophy; brain; sulfolipids; infants, animals; metabolic diseases inborn; radiolabeled sulfur; children

NB-05367 LEVIN, EPHRAIM Y., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
enzymes; bile pigments; cell-free systems; oxidation.. auto-oxidation; heme; chemical bonds..bond cleavage; reaction rates (chemistry); kernicterus

NB-05456 KOENIG, VIRGIL L., Univ. Texas Med. Branch, Galveston, Texas
eye..lens; proteins; cataract; enzymes; immunology.. antibodies; chemical structure--biological activity; species

NB-05483 HIGMAN, HENRY B., Presbyterian-St. Luke's Hosp., Chicago, Ill.
electric organ; choline esterase..acetylcholinesterase; transacylases..choline transacylase; cholinergic receptors; potentials..membrane potentials; enzyme inhibitors; hydrogen--ion concentration; nerve impulse transmission; quaternary ammonium compounds; amines.. tertiary amines; fish..electric fish

NB-05825 HADDAD, HESKEL M., Mt. Sinai Hosp., New York, N.Y.
neuraminic acid; hexosamines; eye; eye disorders; radiolabeled carbon; cataract; retinal detachment

NB-05912 COLODZIN, MARTIN, Sch. Med., State Univ. New York, Buffalo, N.Y.
phosphatidyl inositol; brain; cell components.. microsomes; membrane permeability and transport; ions..cation; drugs; phosphatases..adenosine triphosphatase; enzymes; tritium; radiolabeled phosphorus

NB-05923 LEBARON, FRANCIS N., Sch. Med., Univ. New Mexico, Albuquerque, N. Mex.
brain; lipoproteins; phosphatidyl inositol; binding; radiolabeled phosphorus; phosphatidopeptides; chemical structure; amino acid; proteins

OH-00169 DINMAN, BERTRAM D., Col. Med., Ohio State Univ., Columbus, Ohio
blood..serum; cell components; diagnostic tests; enzymes.. isoenzymes; hypoxia; injury; public health; tissue; toxins

RH-00238 HAINING, JOSEPH L., Sch. Med., Univ. Mississippi, Jackson, Miss.
unsaturated fatty acids; lipid peroxides; radiation effects ..whole body radiation; oxidases..lipoxidase; peroxidation; enzyme substrate; bioassay; radiation protection; diet; aging; sex difference

PHYSIOLOGY

AI-04434 WHARTON, G.W., Ohio State Univ., Columbus, Ohio
water--electrolyte balance; ecology, animal; nutrition; climate..humidity

AM-00092 WHITE, HARVEY L., Sch. Med., Washington Univ., St. Louis, Mo.
kidney..renal medulla; membrane permeability and transport; diuresis; water--electrolyte balance; osmotic pressure; kidney function

AM-00311 STEELE, J. MURRAY, New York Univ. Med. Cr., N.Y.C.
deoxycorticosterone; intestines..colon; potassium; sodium; tritium; vasopressin

AM-00461 BRODSKY, WILLIAM A., Sch. Med., Univ. Louisville, Louisville, Ky.
carbon dioxide tension; kidney function; phosphates; dehydratases..carbonic anhydrase; acidosis; alkalosis; membrane permeability and transport; sodium; chlorides; body water; methacholine; aldosterone

AM-00750 ZIERLER, KENNETH L., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
adipose tissue; arm; blood flow; fatty acids; hormones; muscle..skeletal muscle

AM-01389 RAMPONE, ALFRED J., Sch. Med. Univ. Oregon, Portland, Ore.
lipids; intestinal absorption; diet; lymphatic system; cholesterol; chemical structure; gas chromatography; silicic acid chromatography

AM-01445 THOMAS, J. EARL, Loma Linda Univ., Loma Linda, Cal.
pancreatic function; enzymes; intestines..duodenum; temperature; electrophysiology; secretin; intestines.. small intestine; gastrointestinal motility; pancreozymin; autonomic reflexes; gastrointestinal system; nervous system..autonomic nervous system

AM-01761 HIX, ELLIOTT L., Sch. Med., Kirksville Col., Kirksville, Mo.
environment; histogenesis; kidney function; nerves..denervation; nerves..innervation; reflex; stress; transplantation..autotransplantation

AM-01835 WOODS, JAMES W., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
adrenal glands; blood..plasma; body water; brain..hypothalamus; fever; osmoreceptors; ovary; pituitary gland; pyrogens; vasopressin

AM-01940 SAWYER, WILBUR H., Col. Phys., Surg., Columbia Univ., N.Y.C.
arginine; chemical structure--biological activity; molecular structure; pituitary hormones..neurohypophyseal hormones; urinary bladder; vasopressin

AM-02217 HUANG, K.C., Sch. Med., Univ. Louisville, Louisville, Ky.
organic acids; kidney..renal tubular transport; p--amino-salicylic acid; tyrosine analogs; acetates; probenecid; intestinal absorption; tryptophan analogs

AM-02306 WALSER, MACKENZIE, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
ions..cation; electrolytes; ions..anion; hyperparathyroidism; calcium; hypercalcemia; therapy; sodium sulfate; radiolabeled strontium; poisoning; kidney function; sodium

AM-02325 BECKER, E. LOVELL, Sch. Med., Cornell Univ., New York, N.Y.
urine; sodium; vasopressin; potassium; kidney function; osmotic pressure; body water; erythropoietin

(contd)

PHYSIOLOGY (CONTD)

AM-02527 **BOZLER, EMIL,** Col. Med., Ohio State Univ., Columbus, Ohio
muscle..smooth muscle; ion exchange and transport; electrolytes; calcium; sodium; potassium; membrane permeability and transport; muscle contraction

AM-02667 **BRICKER, NEAL S.,** Sch. Med., Washington Univ., St. Louis, Mo.
kidney disorders; 2,4--dinitrophenol; sodium; oxygen consumption; kidney function; electrolytes; membrane permeability and transport; urinary bladder; potassium; epithelium; glycolysis; anaerobiosis

AM-02827 **CODE, CHARLES F.,** Mayo Assn., Rochester, Minn.
intestinal absorption; radiolabeled sodium; radiolabeled potassium; deuterium oxide; tritium oxide; glucose; water-electrolyte balance; ion exchange and transport

AM-03359 **WALKER, W. GORDON,** Johns Hopkins Hosp., Baltimore, Md.
amino acid; blood..serum; kidney function; lysine; potassium; stop flow technique

AM-03601 **LOTSPEICH, WILLIAM D.,** Sch. Med., Univ. Rochester, Rochester, N.Y.
amino acid; amino acid analogs; glucose; kidney function; Krebs cycle; membrane permeability; metabolites; organic acids; phlorizin; phosphates

AM-03602 **COHEN, JULIUS J.,** Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
α-ketoglutarate; kidney function; metabolites; tissue respiration

AM-03819 **BARR, LLOYD,** Univ. Michigan, Ann Arbor, Mich.
acetylcholine; blood vessels; calcium; electrophysiology; epinephrine; intestines; ion exchange; muscle contraction; muscle..smooth muscle; potassium; sodium
sodium; membrane permeability and transport

AM-03858 **HAYS, RICHARD M.,** Albert Einstein Col. Med., Yeshiva Univ., Bronx, N.Y.
vasopressin; epithelium; cell; kidney..renal tubules; water

AM-03885 **MALVIN, RICHARD L.,** Sch. Med., Univ. Michigan, Ann Arbor, Mich.
membrane permeability and transport; blood flow; kidney function; urea

AM-03898 **HARKINS, HENRY N.,** Sch. Med., Univ. Washington, Seattle, Wash.
extracorporeal circulation..cross circulation; gastric pouch; gastrin inhibitors; histamine; nervous system..parasympathetic nervous system; neurosurgery; peptic ulcer; vagotomy

AM-04082 **NARAHARA, HIROMICHI T.,** Sch. Med., Washington Univ., St. Louis, Mo.
glucose; muscle..skeletal muscle; sugar; membrane permeability and transport; phosphorylation; glycogen; hypoxia; epinephrine; insulin; growth hormones; adrenal cortex hormones

AM-04618 **CARRASQUER, GASPER,** Med. Sch., Univ. Louisville, Louisville, Ky.
water-electrolyte balance; kidney function; phosphates; radiolabeled phosphorus; creatinine; kidney..renal tubular transport

AM-04871 **KELLER, DANIEL M.,** Univ. Tennessee, Memphis, Tenn.
amino acid; cell components..mitochondria; kidney function; monosaccharides; organic acids; organic bases

AM-05073 **LEE, JUI S.,** Sch. Med., Univ. Minnesota, Minneapolis, Minn.
lymphatic system; intestinal absorption; osmotic pressure; glucose; ion exchange and transport

AM-05077 **VANDER, ARTHUR J.,** Sch. Med., Univ. Michigan, Ann Arbor, Mich.
sodium; water--electrolyte balance; colloids; osmotic pressure; cadmium; kidney function; metallothionein; mercury; zinc; angiotensin; proteases..renin; secretory mechanisms

AM-05401 **EARLEY, LAWRENCE E.,** Boston City Hosp., Boston, Mass.
kidney function; membrane permeability and transport; electrolytes; ureteral obstruction; kidney circulation; natriuresis

AM-05484 **SALTMAN, PAUL D.,** Sch. Med., Univ. Southern California, Los Angeles, Cal.
chelation; binding; trace elements; ion; amino acid; organic acids; plants; metallo--proteins; algae; intestinal absorption; chelating agents; membranes; membrane permeability; ion exchange

AM-05503 **FULOP, MILFORD,** Bronx Municipal Hosp., Cr., Bronx, N.Y.
kidney function; bilirubin glucuronides; urine; binding; blood proteins..plasma proteins; ultrafiltration

AM-05561 **GINSBURG, JACK M.,** Sch. Med., Univ. Rochester, N.Y.
arsenic; cell components..cell membrane; ion; kidney..renal tubules; membrane permeability; phosphates; reaction sites; vanadium

AM-05649 **BROWN, E.B., Jr.,** Univ. Kansas Med. Cr., Kansas City, Kans.
potassium; acid base equilibrium; hydrogen--ion concentration; muscle..skeletal muscle; heart..myocardium; body fluids; nervous system..central nervous system

AM-05672 **RENNICK, BARBARA R.,** Mt. Holyoke Col., South Hadley, Mass.
kidney..renal tubular transport; radiolabeled carbon; norepinephrine; epinephrine; catecholamines

AM-05678 **MAFFLY, ROY H.,** Sch. Med., Stanford Univ., Palo Alto, Cal.
adenosine triphosphate; carbohydrates; carbon dioxide; high energy compounds; hydrogen-ion concentration; oxygen consumption; phosphates; radiolabeled carbon; scintillation counters; sodium; urinary bladder

AM-05707 **DAVIES, ROBERT E.,** Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
carbon dioxide; electron transport; embryology; high energy compounds; hydrochloric acid; membrane permeability; mucous membrane; oxygen; potentials..membrane potentials; stomach..gastric juice inhibitors

AM-05736 **WILSON, THOMAS H.,** Sch. Med., Harvard Univ., Boston, Mass.
amino acid; carbohydrates; intestinal absorption; membrane permeability; radiolabeled; vitamin B12

AM-05778 **BAKER, R. DAVID,** Sch. Med., Univ. Texas, Galveston, Tex.
intestines..small intestine; intestinal absorption; amino acids; sugars

AM-05848 **HOGBEN, C. ADRIAN M.,** Sch. Med., State Univ. Iowa, Iowa City, Iowa
gastrointestinal system; intestinal absorption; secretion; stomach..gastric juice

AM-05865 **HOSHIKO, TOMUO,** Sch. Med., Western Reserve Univ., Cleveland, Ohio
skin; hydrogen--ion concentration; deuterium oxide; temperature; narcotics; potentials..membrane potentials; sodium; solvents; lithium; potassium; rubidium; ions; cesium; halides; vasopressin

AM-05942 **TWENTE, JOHN W.,** Col. Letters, Sci., Univ. Utah, Salt Lake City, Utah
hibernation; body temperature; carbon dioxide; ketone bodies; lactates; electrolytes; organic acids; bicarbonates; arousal

AM-06159 **BLAKE, WILLIAM D.,** Sch. Med., Univ. Maryland, Baltimore, Md.
kidney function; nervous system..autonomic nervous system; nervous system..central nervous system; electrolytes; nerves..denervation; neuroendocrine systems; kidney circulation

AM-06221 **JOHNSON, PAUL C.,** Indiana Univ. Med. Cr., Indianapolis, Ind.
intestinal absorption; capillaries; homeostasis; blood volume; vasoactive agents; computer analysis

AM-06421 **GARTH, RICHARD E.,** Grad. Sch., Northwestern State Col., Natchitoches, La.
brain..hypothalamus; chemical structure; gonadotropins-releasing factor; photoperiodism

AM-06479 **KINTER, WILLIAM B.,** Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
intestinal absorption; kidney function; epithelium; cell components..cell membrane; membrane permeability and transport; radioautography; p--aminohippurate; iodopyracet; fatty acids; sugar; amino acids; kidney..renal tubular transport; dyes

AM-06481 **WATLINGTON, CHARLES O.,** Med. Col. Virginia, Richmond, Va.
skin; membrane permeability and transport; neuroendocrine systems; neurohormones; nervous system..central nervous system; brain lesions; stress; radiolabeled sodium; ion exchange and transport

AM-06540 **CURRAN, PETER F.,** Harvard Med. Sch., Boston, Mass.
cytochrome; intestines..colon; ion exchange; oxidation-reduction; skin; sodium

AM-06631 **LEE, JAMES B.,** St. Vincent Hosp., Worcester, Mass.
aldosterone; carbohydrates; enzymes substrate; hyperosmolarity; ion; kidney function; radiolabeled carbon; saluresis; vasopressin; water-electrolyte balance

AM-06700 **LIFSON, NATHAN,** Sch. Med., Univ. Minnesota, Minneapolis, Minn.
electrophysiology; intestinal absorption; membrane permeability; radiolabeled; sugar; water-electrolyte balance

AM-06806 **ULLRICH, KARL J.,** Physio. Inst. der Freien Univ. Berlin, Berlin, Germany
kidney..renal tubular transport; osmotic pressure; micropuncture; electrolytes; kidney..glomerulus; diuretics

AM-06864 **MARSH, DONALD,** New York Univ. Med. Cr., N.Y.C.
kidney..renal tubular transport; perfusion; sodium; potassium; chlorides; electrodes..microelectrodes; water-electrolyte balance; ion exchange; urea

AM-06958 **BORTOFF, ALEXANDER,** Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
muscle..smooth muscle; intestines..small intestine; muscle contraction; ganglia; cytes; electrophysiology; stomach

AM-06973 **WOLBACH, ROBERT A.,** Sch. Med., Univ. Utah, Salt Lake City, Utah
phosphates; kidney function; parathyroid glands; hydrogen--ion concentration; kidney..renal tubular transport; calcium

AM-07071 **MAXWELL, MORTON H.,** Sch. Med., Univ. California, Los Angeles, Cal.
water--electrolyte balance; membrane permeability and transport; peritoneum; hormones; nephrectomy; radiolabeled carbon; radiolabeled sodium; radiolabeled potassium; radiolabeled phosphorus; albumins..serum albumins; radiolabeled iodine

AM-07352 **WATSON, JOHN F.,** Col. Med., Univ. Vermont, Burlington, Vt.
kidney function; water--electrolyte balance; potassium; inulin; sodium; calcium

AM-07420 **CLAPP, JAMES R., Sch. Med., Duke Univ., Durham, N.C.**
kidney function; diet; protein-free diet; urea; diuresis; mannitol; inulin

AM-07476 **VAN HARN, GORDON L., Calvin Col., Grand Rapids, Mich.**
gastrointestinal system; muscle..smooth muscle; mechanical pressure; electrostimulus; acetylocholine; epinephrine; norepinephrine; serotonin; neuromuscular blocking agents; nervous system; autonomic nervous system

AM-07679 **SIEGEL, IVENS A., Sch. Med., State Univ. New York, Buffalo, N.Y.**
drugs; ion..anion; ion exchange; potassium; saliva; salivary glands

AM-07687 **DARROW, DANIEL C., Babies Hosp. Res. Cr., Wilmington, N.C.**
body fluids; cells; glucose; fructose; galactose; insulin; osmotic pressure; venous infusions

AM-07779 **MUSACCHIA, X.J., Grad. Sch., St. Louis Univ., St. Louis, Mo.**
intestinal absorption; autonomic agents; membrane permeability and transport; nervous system..sympathetic nervous system; catecholamines; reserpine; D-glucose; hypothermia; hibernation; adrenalectomy; tritium

AM-07780 **SULLIVAN, W. JAMES, Sch. Med., New York Univ., N.Y.C.**
acid-base equilibrium; carbon dioxide tension; ion exchange; kidney..renal tubules; kidney..renal tubular transport; potentials..membrane potentials

AM-07831 **RABINOWITZ, LAWRENCE, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
diet; kidney function; lipids; membrane permeability; molecular size; non-electrolytes; organic compounds; proteins; radiolabeled carbon; solubility; urea; vasopressin

AM-07933 **McCANN, WILLIAM P., Univ. Alabama Med. Cr., Birmingham, Ala.**
kidney function; glucose; lactates; pyruvate; fatty acids; amino acid; diuretics..mercurial diuretics; chlorothiazide; mannitol; sodium chloride; citrates

AM-07998 **FAUST, ROBERT G., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
antimetabolites; bile acids and salts; cell components; D-glucose; glycolysis; intestinal absorption; intestines.. jejunum; 3-0-methyl glucose; mucous membrane; phosphatases..adenosine triphosphatase; potentials..membrane potentials; radiolabeled carbon; tissue respiration

AM-08070 **VAN LIEW, HUGH D., State Univ. New York, Buffalo, N.Y.**
oxygen tension; carbon dioxide tension; tissue; blood; electrolytes; barometric decompression; membrane permeability and transport; tissue respiration

AM-08095 **CALHOON, THOMAS B., Ohio State Univ., Columbus, Ohio**
water electrolyte balance; binding; connective tissue; muscles; salts

AM-08114 **HILLS, A. GORMAN, Univ. Miami Sch. Med., Jackson Mem. Hosp., Miami, Fla.**
diffusion; antidiuresis; kidney..renal tubular transport; kidney disorders; ammonia; carbon dioxide tension; hydrogen-ion concentration; biomathematics; oxygen tension

AM-08241 **ABRAMS, ROBERT M., John B. Pierce Fdn. Lab., New Haven, Conn.**
instrumentation-methodology; calorimetry; body temperature; nutrition; brain..hypothalamus; heat exchanger

AM-08270 **BALAGURA, SULAMITA, Faculty Med., Univ. del Valle, Cali-Colombia, South America**
α--ketoglutarate; Krebs cycle; kidney..renal tubular transport; epithelium; acid--base equilibrium; organic acids

AM-08354 **GROSSMAN, MORTON I., Veterans Admin. Cr., Los Angeles, Cal.**
stomach..gastric juice; secretory mechanisms; blood flow; nervous system..vagus nerve; nerves..denervation; secretin; fats; solenectomy; drugs; histamine

AM-08359 **LYON, IRVING, Chicago Med. Sch., Chicago, Ill.**
intestines..jejunum; potentials..membrane potentials; sodium; glucose; ion exchange and transport; tritium; radiolabeled sodium; radiolabeled carbon

AM-08455 **GLABMAN, SHELDON, Mount Sinai Hosp., New York, N.Y.**
kidney..renal tubular transport; kidney..glomerular filtration; natriuresis; vasopressin; hyponatremia; radiolabeled sodium; sodium; mannitol

AM-08541 **SACHS, GEORGE, Univ. Alabama Med. Cr., Birmingham, Ala.**
ion exchange and transport; stomach..gastric juice; secretory mechanisms; mucous membrane; potentials.. membrane potentials; oxygen consumption; computer analysis; radiolabeled sodium; radiolabeled potassium; radiolabeled calcium; radiolabeled magnesium; radiolabeled carbon; tritium

AM-08687 **WINSHIP, DANIEL H., Milwaukee County Gen. Hosp., Milwaukee, Wis.**
micropuncture; stomach; gastric juice; hydrochloric acid; reaction sites; secretory mechanisms; laboratory facilities

AM-08695 **OKEN, DONALD E., Peter Bent Brigham Hosp., Boston, Mass.**
renal failure; micropuncture; stop flow technique; kidney function; membrane permeability; potentials..membrane potentials; ion

AM-08707 **ZADUNAISKY, JOSE A., Univ. Louisville, Louisville, Ky.**
antimetabolites; chlorides; electrical conductance; electrophysiology; ion exchange; membrane permeability; radiolabeled chlorine; radiolabeled sodium; skin; sodium; strophanthin; vasopressin; water-electrolyte balance

AM-08807 **MALVIN, RICHARD L., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
kidney..renal tubular transport; membrane permeability and transport; laboratory facilities; kidney disorders; vasopressin; potassium

AM-08818 **STOLOV, WALTER C., Univ. Hosp., Univ. Washington, Seattle, Wash.**
muscles..skeletal muscle; nerves..denervation; elasticity; muscle tension; connective tissue; tendons; hydroxyproline; binding

AM-08935 **DART, S. LEONARD, Claremont Men's Col., Claremont, Cal.**
thermodynamics; muscle contraction; chemical structure; stress; muscles; perfusion

AM-09007 **MICHAEL, ALFRED F., Jr., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
kidney..renal tubular transport; amino acids; calcium; phosphates; hyperphosphaturia; aminoaciduria; perfusion; intestinal absorption; chemical structure--biological activity

AM-09036 **MURDAUGH, H. VICTOR Jr., Univ. Alabama Med. Cr., Birmingham, Ala.**
trace elements; kidney disorders; hemodialysis; kidney function; radioisotopes..magnesium 28; radioisotopes..calcium 45; radiolabeled copper; intestinal absorption; proteins; binding

AM-09173 **FORTE, JOHN G., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
hydrochloric acid; ion exchange and transport; secretory mechanisms; stomach..gastric juice inhibitors; mucous membrane; phosphates; oxygen consumption; oxidative phosphorylation; antimetabolites; histogenesis; radiolabeled phosphorus

AM-09280 **STEVENS, CHARLES E., New York State Vet. Col., Cornell Univ., Ithaca, N.Y.**
intestinal absorption; ions; fatty acids; stomach.. rumen; epithelium; electrophysiology; radiolabeled sodium; radiolabeled chlorine; bicarbonates; ammonia

AM-09293 **ASANO, TOMOAKI, Col. Sci., Univ. Notre Dame, Notre Dame, Ind.**
intestinal absorption; sodium; glucose; electrophysiology; germ--free; radiolabeled sodium; radiolabeled carbon; radiolabeled chlorine; intestines..cecum

AM-09323 **CORTNEY, MARSHALL A., Col. Med., State Univ. Iowa, Iowa City, Iowa**
adrenalectomy; aldosterone; reaction sites; kidney.. renal tubular transport; radiolabeled carbon; potassium; sodium chloride; secretory mechanisms

AM-09325 **NECHAY, BOHDAN R., Col. Med., Univ. Florida, Gainesville, Fla.**
adenosine triphosphate; kidney..renal tubular transport; sodium; ions; radiolabeled phosphorus; radiolabeled carbon

AM-09361 **DEYRUP-OLSEN, INGRITH J., Univ. Washington, Seattle, Wash.**
membrane permeability and transport; sulfates; kidney.. renal cortex; intestines; radiolabeled sulfur; kidney.. renal tubular transport; intestinal absorption

AM-09398 **SCHMIDT-NIELSEN, BODIL, Grad. Sch., Western Reserve Univ., Cleveland, Ohio**
water--electrolyte balance; protozoa..Amoeba; kidney.. renal tubular transport; urea; micropuncture; electron microscopy; uric acid

AM-09702 **RANDALL, RUSSELL E., Jr., Med. Col. Virginia, Richmond, Va.**
calcium; magnesium; kidney..renal tubular transport; homeostasis; arterial infusions; parathyroid hormones; electrolytes

AP-00229 **MEAD, JERE, Harvard Sch. Pub. Hlth., Boston, Mass.**
respiration; pulmonary airway resistance; carbon dioxide tension; muscles..respiratory muscle; hyperventilation; passive; respiratory system reflexes; atmospheric pressure

CA-03690 **HEMPLING, HAROLD G., Sch. Med., Cornell Univ., N.Y.C.**
blood cells..leukocytes; neoplastic cells; Ehrlich ascites carcinoma; potassium; sodium; ion exchange and transport; amino acid; potentials; cell components..cell membrane; single cell analysis

CA-06050 **DUNHAM, EDWARD T., Col. Med., Yeshiva Univ., N.Y.C.**
blood cells..erythrocytes; cardiac glycosides; cell components..cell membrane; high energy compounds; ion; ion exchange; potassium; pyrophosphates; sodium

DE-01796 **MEYER, MAURICE W., Sch. Dent., Univ. Minnesota, Minneapolis, Minn.**
blood vessels; blood flow; blood vessels vasomotion

GM-03545 **HUF, ERNST G., Med. Col. Virginia, Richmond, Va.**
skin; ion exchange and transport; oxidation--reduction; potentials; oxygen consumption; hypokalemia

GM-03723 **CARLSON, FRANCIS D., Sch. Arts, Sci., Johns Hopkins Univ., Baltimore, Md.**
muscle contraction; phosphocreatine; phosphotransferases.; ATP : creatine phosphotransferases; muscle; heat

(contd)

PHYSIOLOGY (CONTD)

GM-03968 ECKEL, ROBERT E., University Hospitals, Cleveland, Ohio
blood cells..erythrocytes; ion exchange; potassium

GM-04254 KIRSCHNER, LEONARD B., Grad. Sch., Washington State Univ., Pullman, Wash.
ion exchange and transport; membrane permeability and transport; radiolabeled phosphorus; phospholipids; blood cells..erythrocytes; inositol; calcium; carbon dioxide; dehydratases..carbonic anhydrase; sodium; skin; silver; adenosine triphosphate; carbohydrates; glycolysis

GM-05112 ANTHONY, ADAM, Col. Agr., Chem., Pennsylvania State Univ., University Park, Pa.
acclimatization; altitude; body weight; cell components.. mitochondria; chromatography; cytology; polarography; thyroid gland; thyroid hormones; tissue respiration

GM-05197 LYMAN, CHARLES P., Sch. Med., Harvard Univ., Boston, Mass.
hibernation; thyroid function; blood circulation dynamics; contrast media; radiation effects; cell components..cell nucleus; adipose tissue

GM-05881 MITCHELL, ROBERT A., Univ. California Med. Ctr., San Francisco, Cal.
brain..medulla oblongata; chemoreceptors; respiration; carbon dioxide; acclimatization; acid-base equilibrium; cerebrospinal fluid; membrane permeability and transport; blood-brain barrier

GM-06264 STAINSBY, WENDELL N., Sch. Med., Univ. Florida, Gainesville, Fla.
oxygen consumption; muscle, skeletal muscle; blood flow; oxygen tension

GM-06337 INGRAHAM, RAYMOND C., Col. Med., Univ. Illinois, Chicago, Ill.
intestinal absorption; sodium

GM-06377 ROBERTS, JOHN L., Univ. Massachusetts, Amherst, Mass.
acclimatization; photoperiodism; species; ecology, animal; oxygen consumption; tissue respiration; thyroid function

GM-06730 SNELL, FRED M., Sch. Med., State Univ. New York, Buffalo, N.Y.
sodium; membrane permeability and transport; electrophysiology; skin; urinary bladder; NAD(H2); kidney.. renal tubular transport

GM-07168 BOYER, DON R., Washburn Univ., Topeka, Kansas
temperature; respiration; heart function; oxygen tension; hypoxia

GM-07405 BROWN, FRANK A., Jr., Grad. Sch., Northwestern Univ., Evanston, Ill.
atmosphere; body movement; electromagnetic fields; geophysics; growth; photosensitivity; plants; temperature; tissue respiration

GM-07458 BURGER, J. WENDELL, Col. Lib. Arts, Trinity Col., Hartford, Conn.
body fluids; osmotic pressure; salt gland (rectal); water-electrolyte balance

GM-07678 ANTHONY, ADAM, Grad. Sch., Pennsylvania State Univ., University Park, Pa.
oxidative phosphorylation; hypothermia; tissue respiration; cell components..mitochondria; thermoregulation; hibernation

GM-07787 MOYER, CARL A., Sch. Med., Washington Univ., St. Louis, Mo.
anemia; injury..burns; alcoholism; sodium; dietary deficiency; adrenal cortex hormones; albumins..serum albumins; skin; membrane permeability and transport; body fluids; blood flow; pulmonary circulation; capillaries

GM-08080 BARRON, DONALD H., Sch. Med., Yale Univ., New Haven, Conn.
pregnancy..placental transfer; urea; oxygen; antipyrine; 4-amino antipyrine; membrane permeability; chorion

GM-08426 SJODIN, RAYMOND A., Sch. Med., Univ. Maryland, Baltimore Md.
cell components, cell membrane; muscle; radiolabeled potassium; ion exchange and transport; membrane permeability and transport; radiolabeled rubidium; radiolabeled cesium

GM-08427 BRINLEY, FLOYD J., Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
ion exchange and transport; muscle; ion..anion; nerves

GM-08427 BRINLEY, F.J., Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
ion exchange and transport; muscle; ion..anion; nerves

GM-08429 CARLSON, LOREN D., Col. Med., Univ. Kentucky, Lexington, Ky.
blood flow; body temperature; calorimetry; exercise; sweat; thermoregulation

GM-08803 HOROWICZ, PAUL, Sch. Med., Duke Univ., Durham, N.C.
cell components..cell membrane; ion exchange; membrane permeability; muscle; potentials..membrane potentials; radiolabeled chlorine; radiolabeled potassium; radiolabeled sodium

GM-08804 CHEW, ROBERT M., Sch. Liberal Arts, Sci., Univ. Southern California, Los Angeles, Cal.
body water loss; ecology, animal; evaporation

GM-08858 DOREMUS, HENRY M., Sch. Med., Univ. Vermont, Burlington, Vt.
aging; drugs; laboratory animals; shrew (insectivore); toxicology

GM-08886 GOLDSMITH, MARY H., Grad. Sch., Yale Univ., New Haven, Conn.
potentials; cell; plants; growth, plants

GM-09034 WOLDRING, SABBO, Roswell Park Mem. Inst., Buffalo, N.Y.
respiration; carbon dioxide tension; lung volume; respiratory system reflexes; muscles..respiratory muscles; thorax..intrathoracic pressure

GM-09355 HUDSON, JAMES B., E. Talmadge Mem. Hosp., Augusta, Ga.
acid-base equilibrium; body fluids; cell; organic acids

GM-09584 SOUTH, FRANK E., Col. Vet. Med., Colorado State Univ., Fort Collins, Colo.
hibernation; homeostasis; heart rate; nerve impulse transmission; hypothermia; heart function; potentials.. membrane potentials; muscle contraction

GM-09603 HILDING, ANDERSON C., St. Luke's Hosp., Duluth, Minn.
epithelium; respiratory system; bronchial mucus; death; air pollution; trauma; injury..wound healing; metaplasia; carcinogenesis; nutrition; cell components..ciliary movement; lung..bronchomotion; bone ..periosteum; anesthesia; lung neoplasms; nose; ear surgery; regeneration; Mucus; paranasal sinuses

GM-09652 POPOVIC, VOJIN P., Sch. Basic Hlth. Sci., Emory Univ., Atlanta, Ga.
hypothermia; hibernation

GM-10062 JOHN, THEODORE L., Univ. California, Los Angeles, Cal.
conferences; zoology

GM-10062 SCHMIDT-NIELSEN, KNUT, Duke Univ., Durham, N.C.
conferences; zoology

GM-10092 STRICKHOLM, ALFRED, Sch. Med., Univ. California, San Francisco, Cal.
cell components..cell membrane; cell components..cytoplasm; cinemicrography; electrodes..microelectrodes; ion; muscle..sarcoplasmic reticulum; muscle contraction; potentials..action potentials; species

GM-10093 WUNDER, CHARLES C., Sch. Med., State Univ. Iowa, Iowa City, Iowa
aquatic animals; body weight; centrifugation; gravity; growth; instrumentation; limbs; posture; skeleton

GM-10156 HUTCHISON, VICTOR H., Grad. Sch., Univ. Rhode Island, Kingston, R.I.
reptiles; ecology, animal; temperature; reproductive system; thermoregulation

GM-10156 HUTCHINSON, VICTOR H., Grad. Sch., Univ. Rhode Island, Kingston, R.I.
reptiles; ecology, animal; temperature; reproductive system; thermoregulation

GM-10205 SCHOTTELIUS, BYRON A., Sch. Med., State Univ. Iowa, Iowa City, Iowa
electrophysiology; freezing; muscle..skeletal muscle; muscle contraction; phosphates

GM-10219 REYNAFARJE, BALTAZAR, Univ. San Marcos, Lima, Peru
altitude; hypoxia; oxygen debt; exercise; oxygen consumption; hydroxypyruvic acid; lactates; blood vessels; geographical sites..Peru; catheterization; fructose; liver; heart

GM-10429 THOMPSON, ALAN M., Kansas Univ. Med. Ctr., Kansas City, Kans.
cell; radiolabeled carbon; membrane permeability and transport; carbon dioxide tension; blood flow

GM-10542 STEINBACH, H. BURR, Univ. Chicago, Chicago, Ill.
water--electrolyte balance; ion exchange; muscle.. skeletal muscle; protozoa; ovum; spermatozoa; ecology, animal

GM-10734 MACEY, ROBERT I., Sch. Letters, Sci., Univ. California, Berkeley, Cal.
cell components..chloroplasts; cell components..cytoplasm; membrane permeability; optical density; organic compounds; osmotic pressure; photosynthesis; plants

GM-10811 WIEBERS, JACOB E., Grad. Sch., Purdue Univ., Lafayette, Ind.
thermoregulation; body temperature; bats

GM-10971 ARMSTRONG, WILLIAM M., Sch. Med., Indiana Univ. Indianapolis, Ind.
sodium; potassium; ion exchange and transport; muscle.. skeletal muscle; stoichiometry; radiolabeled carbon; potentials..membrane potentials

GM-11004 SHELL, EDDIE W., Sch. Agr., Auburn Univ., Auburn, Ala.
cyclic functions; sex difference; species; temperature

GM-11048 PACE, NELLO, Univ. California, Berkeley, Cal.
adenosine triphosphate; citrate; liver; cell components..cell membrane; cell components..microsomes; phosphatases..adenosine triphosphatase; ion exchange; sodium; potassium; calcium; magnesium; binding; ion..cation

GM-11199 REDMOND, JAMES R., Col. Sci., Humanities, Iowa State Univ., Ames, Iowa
hemocyanin; respiration; oxygen tension; tissue respiration; phylogeny; ecology, animal

GM-11368 HUDSON, JACK W., Rice Univ., Houston, Tex.
body temperature; climate; cyclic functions; heart function; instrumentation-methodology; radiolabeled iodine; thyroid function

GM-11422 LING, GILBERT N., Pennsylvania Hosp., Philadelphia, Pa.
adenosine triphosphate; alkali metals; amino acid; biomathematics; cell components..cytoplasm; computer analysis; diffusion; drugs; intestinal absorption; iodotyrosine; muscle..skeletal muscle; reaction sites

GM-11441 DUNHAM, PHILIP B., Col. Liberal Arts, Syracuse Univ., Syracuse, N.Y.
muscle; water-electrolyte balance; inland fresh waters; electrophysiology; hypersmolarity

GM-11494 WILLIS, JOHN S., Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
hibernation; hypothermia; ion exchange; tissue respiration; water-electrolyte balance

GM-11495 ARMITAGE, KENNETH B., Grad. Sch., Univ. Kansas, Lawrence, Kansas
gonads; molting; photoperiodism; reproduction; seasonal variation; temperature

GM-11624 DARLING, ROBERT C., Col. Phys., Surg., Columbia Univ., N.Y.C.
blood flow; brain; body temperature; fever; morbidity; oxygen consumption; thermoreception; thermoregulation; sensory mechanisms

GM-11676 DENNIS, WARREN H., Sch. Med., Univ. Wisconsin, Madison, Wis.
electrodes..microelectrodes; potentials, membrane potentials; chlorides; ion exchange; Hela cells

GM-11693 HUNTER, W.D. RUSSELL, Grad. Sch., Syracuse Univ., Syracuse, N.Y.
biometry; ecology, animal; geographical sites.. Massachusetts; geographical sites..New York; growth; marine biology; mollusks; population dynamics, animal; reproduction; respiration; species

GM-11763 MORENG, ROBERT E., Colorado State Univ., Fort Collins, Colo.
embryology; hypothermia; stress; genetic strains; genetics..genotypes; egg hatching; growth; ovum

GM-11806 KOBLICK, DANIEL C., Illinois Inst. Technology, Chicago, Ill.
choline; choline esterases; enzymes inhibitors; ion exchange; potassium; skin; sodium

GM-11816 LYMAN, CHARLES P., Harvard Univ., Cambridge, Mass.
climate; diurnal variation; geographical sites..Africa; hydration; body fluids; kidney function; population dynamics, animal; thermoregulation; ungulates; water-electrolyte balance

GM-11817 ALVARADO, RONALD H., Sch. Sci., Oregon State Univ., Corvallis, Ore.
ACTH; aldosterone; body fluids; deoxycorticosterone; ion exchange; life cycle; oxytocin; salamanders; vasopressin; vasotocin; water-electrolyte balance

GM-11818 RENNIE, DONALD W., Sch. Med., State Univ. New York, Buffalo, N.Y.
blood circulation dynamics; body temperature; cold; geographical sites..Korea; hypothermia; limbs; seasonal variation; sex difference; thermoregulation

GM-11959 NORRIS, KENNETH S., Col. Letters, Sci., Univ. California, Los Angeles, Cal.
instrumentation-methodology; thermoregulation; blood vessels vasomotion; monitoring; telemetering; radiosonde

GM-12491 LINTON, JOE R., Col. Liberal Arts, Univ. South Florida, Tampa, Fla.
choline esterase; phosphomonoesterases..acid phosphatase; phosphomonoesterases..alkaline phosphatases; gonadotropins; steroid hormones; thyroxine; reaction sites; potassium; ion exchange and transport; epithelium; radiolabeled calcium; radiolabeled sodium; fish

GM-12564 MEAD, JERE, Harvard Sch. Pub. Hlth., Boston, Mass.
respiration; pulmonary ventilation; pneumograph; instrumentation--methodology; diaphragm; plethysmography; vocalization; thorax

GM-12618 REHM, WARREN S., Univ. Alabama Med. Cr., Birmingham, Ala.
stomach..gastric juice; chlorides; hydrogen; ion; electrodes..microelectrodes; electrophysiology; membrane permeability and transport

GM-12771 LOEWENSTEIN, WERNER R., Col. Phys., Surg., Columbia Univ., New York, N.Y.
cell components..nuclear membrane; Drosophila; potentials ..membrane potentials; membrane permeability and transport; instrumentation--methodology; electrodes . microelectrodes; salivary glands

GM-12790 SLAYMAN, CLIFFORD L., Jr., Sch. Med., Western Reserve Univ., Cleveland, Ohio
fungi..Neurospora crassa; membrane permeability and transport; cell components..cell membrane; electrophysiology; potentials..membrane potentials; ions

GM-12791 FENN, WALLACE O., Univ. Rochester Med. Cr., Rochester, N.Y.
hyperoxia; gases..inert gases; narcotics; oxygen tension; protozoa..Paramecium; radiation effects

GM-12889 STEPHENS, GROVER C., Univ. California, Irvine, Cal.
organic compounds; marine biology; radiolabeled

GM-12933 BASKIN, RONALD J., Univ. California, Davis, Cal.
muscle..skeletal muscle; oxygen consumption; heart.. myocardium; carbon dioxide; electrolytes; muscle contraction; hypoxia; heart contraction

HD-00224 BACH, L. MATHEW N., Sch. Med., Tulane Univ., New Orleans, La.
neuroendocrine systems; temperature; brain..hypothalamus; feeding; age; blood sugar; electrophysiology; nerve impulse facilitation; nerve impulse inhibition; brain.. solitary tract nucleus; primates..tree shrews; brain.. ambiguus nucleus; swallowing; encephale isole; brain lesions; somatotropin; pituitary gland; carbohydrases..amylase; salivary glands; sleep; phylogeny

HD-00262 BARRON, DONALD H., Sch. Med., Yale Univ., New Haven, Conn.
blood flow; uterus; estrus; pregnancy..placenta; fetus

HD-00620 HUNTER, CHARLES A., Jr., Sch. Med., Univ. Washington, Seattle, Wash.
uterus..myometrium contraction; pregnancy; strain gage; electrostimulus; potentials..membrane potentials

HD-01167 WOSTMANN, BERNARD S., Col. Sci., Univ. Notre Dame, Notre Dame, Ind.
aging; microorganisms; gastrointestinal system; cardiovascular system; germ--free; antibiotics; membrane permeability; blood flow; intestines; immunological tests

HD-01395 TAYLOR, PAUL M., Magee-Womens Hosp., Pittsburgh, Pa.
acidosis; infant animals..newborn; pulmonary ventilation; hydrogen--ion concentration; gas tensions

HD-01515 BARTON, THEODORE C., Sch. Med., Harvard Univ., Boston, Mass.
membrane permeability and transport; maternal--fetal; amnion; chorion; uterus..myometrium; non--electrolytes; solutions..aqueous solutions; cell volume

HD-01819 BLACKBURN, JOHN G., Med. Col. South Carolina, Charleston, S.C.
chloralose; glucose; brain..hypothalamus; brain.. appetite satiety center; potentials..action potentials; feeding behavior

HD-01826 SMITH, ROBERT E., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
thermoregulation; cell components; stress; hyperthermia; hypothermia; body temperature; acclimatization; thermodynamics; electron transport; reaction sites; heat exchanger; hormones; adipose tissue; mathematical models

HE-00040 WALTON, ROBERT P., Col. South Carolina, Charleston, S.C.
heart function; heart contraction; blood circulation dynamics; electromagnetic flowmeter; hypotension; hemorrhage; anesthetics; sympathomimetic agents; blood..plasma; strain gage; starch; ballistocardiography; electroencephalography; electrocardiography; reserpine; amino acids; enzyme inhibitors..monoamine oxidase inhibitors

HE-00082 ROOS, ALBERT, Barnes Hosp., St. Louis, Mo.
carbon dioxide tension; chemoreceptors; hydrogen-ion concentration; lung..alveolus; oxygen; pulmonary diffusion; pulmonary function; respiration

HE-00240 DOW, PHILIP, Med. Col. Georgia, Augusta, Ga.
heart function; heart..ventricles; blood pressure; blood vessels; heart rate; blood circulation dynamics; pulmonary function; heart failure..congestive heart failure; cardiorenal disorders; heart valves; extracorporeal circulation, heart-lung bypass; renal ischemia and hypoxia; erythropoietin

HE-00336 SICHEL, FERDINAND J., Col. Med., Univ. Vermont, Burlington, Vt.
muscle contraction; heart contraction; muscle..skeletal muscle; electrophysiology

HE-00337 GUYTON, ARTHUR C., Univ. Mississippi Med. Cr., Jackson, Miss.
blood circulation dynamics; kidney circulation; brain ischemia and hypoxia; arteries; heart failure; kidney function; oxygenation; blisters

HE-00352 HYMAN, CHESTER, Sch. Med., Univ. Southern California, Los Angeles, Cal.
peripheral vascular resistance; blood flow; lymph flow; endothelium permeability; nutrients; blood vessels shunts; microcirculation; vasoactive agents; ischemia; heat; muscle stretch reflex

HE-00834 EPSTEIN, FRANKLIN H., Sch. Med., Yale Univ., New Haven, Conn.
vasopressin; sodium; kidney function; water--electrolyte balance; blood flow; diuretics; sickle cell anemia; calcium; angiotensin; kidney..renal tubules; electrolytes

HE-01257 PETERS, RICHARD M., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
acid-base equilibrium; brain ischemia and hypoxia; carbon dioxide; oxygen; pulmonary airway resistance; pulmonary emphysema; pulmonary ventilation; respiration

HE-01301 WELT, LOUIS G., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
blood cells..erythrocytes; membrane permeability and transport; uremia; phosphatases..adenosine triphosphatase; ions..cation; potassium; sodium; magnesium; strophanthidin; hypercalcemia

HE-01315 SCHER, ALLEN M., Univ. Washington, Seattle, Wash.
heart..ventricles; heart conduction system; electrocardiography; cardiovascular diseases; primates

(contd)

PHYSIOLOGY (CONTD)

HE-01353 WHITEHORN, WILLIAM V., Sch. Med., Univ. Illinois, Chicago, Ill.
heart contraction; heart..myocardium; heart function; exercise; hypertension (systemic); hormones; proteins; electron microscopy

HE-01626 GRODINS, FRED S., Sch. Med., Northwestern Univ., Evanston, Ill.
computer analysis; heart function; mathematical models

HE-01639 COPENHAVER, JOHN H., Jr., Sch. Liberal Arts, Dartmouth Col., Hanover, N.H.
organic acids; membrane permeability and transport; kidney..renal tubular transport; cell components.. cell membrane; radiolabeled phosphorus; phospholipids; kidney..renal cortex

HE-01646 BEAN, JOHN W., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
respiratory system; cardiovascular system; nervous system..autonomic nervous system; hyperbaric oxygenation; carbon dioxide; blood flow; convulsions; brain; intestines; hyperoxia; pulmonary edema; oxygen poisoning; intestinal motility; ascites tumors

HE-01892 MARTIN, CARROLL J., Firland Sanatorium, Seattle, Wash.
pulmonary ventilation; pulmonary function; pulmonary diffusion; gas tensions

HE-01920 SMITH, ARTHUR H., Grad. Sch., Univ. California, Davis, Cal.
climate; stress; hypoxia; temperature; genetic strains

HE-01929 RILEY, RICHARD L., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
blood flow..oscillatory blood flow; capillaries; carbon dioxide; conditioning..operant conditioning; exercise; lung volume; perfusion; pregnancy..amniotic fluid; pulmonary circulation; pulmonary ventilation; respiration; surface properties

HE-01974 POST, ROBERT L., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
phosphatases..adenosine triphosphatase; adenosine triphosphate; sodium; potassium; membrane permeability and transport; ion exchange and transport; chemical structure; blood cells..erythrocytes; cell components.. cell membrane; radiolabeled phosphorus

HE-02062 COULSON, ROLAND A., Sch. Med., Louisiana State Univ., New Orleans, La.
insulin; chemical structure--biological activity; enzymes; water--electrolyte balance; amino acid

HE-02098 GRIM, EUGENE, Univ. Minnesota, Minneapolis, Minn.
ion exchange and transport; body water; electrolytes; gallbladder; intestines; endothelium permeability; blood flow; mucous membrane

HE-02153 WILSON, RUSSELL H., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
pulmonary diffusion; hemoglobin; carbon monoxide; oxygen; gas chromatography; instrumentation--methodology; smoking

HE-02193 EBERT, RICHARD V., Sch. Med., Univ. Arkansas, Little Rock, Ark.
aging; diagnostic tests; pulmonary emphysema; pulmonary function; spirometry; thorax..intrathoracic pressure

HE-02225 NOEHREN, THEODORE H., Sch. Med., Univ. Buffalo, Buffalo, N.Y.
ether; gases..inert gases; lung; pulmonary ventilation

HE-02228 SCHMIDT-NIELSEN, KURT, Duke Univ., Durham, N.C.
thermoregulation; water--electrolyte balance; diabetes; diet; salt gland, nasal; estivation

HE-02298 THOMAS, LYELL J., Jr., Univ. Southern California, Los Angeles, Cal.
calcium; EDTA; heart..myocardium; ouabain; potassium

HE-02334 GOTTSCHALK, CARL W., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
antidiuresis; diuresis; kidney..renal tubules; kidney function; micropuncture; radiolabeled carbon; water-electrolyte balance

HE-02457 PERLMUTT, JOSEPH H., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
antidiuretics; kidney function; nerves..denervation; arteries..carotid arteries; blood volume; hormones; vasopressin; vagotomy; renal arterial occlusions and stenosis

HE-02557 MARTIN, ARTHUR W., Grad. Sch., Univ. Washington, Seattle, Wash.
body fluids; cardiovascular system; hemostasis; hypoxia; kidney function

HE-02766 ALPERT, NORMAN R., Col. Med., Univ. Illinois, Chicago, Ill.
muscle contraction; adenosine triphosphate analogs; phosphonates; actomyosin; phosphatases..adenosine triphosphatase; heart failure; heart..myocardium; heart contraction

HE-02838 JONES, HARDIN B., Univ. California, Berkeley, Cal.
liver function; liver circulation; water--electrolyte balance; aldosterone; posture; liver ischemia and hypoxia; drugs

HE-02860 WIEDEMAN, MARY P., Sch. Med., Temple Univ., Philadelphia, Pa.
blood vessels; blood flow; blood pressure

HE-03092 KOLIN, ALEXANDER, Sch. Med., Univ. California, Los Angeles, Cal.
blood flow; cerebrovascular system; heart; kidney circulation; nervous system..central nervous system; psychology; pulmonary circulation

HE-03212 VISSCHER, MAURICE B., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
creatine; heart..myocardium; radiolabeled carbon; radiolabeled phosphorus; arteries..coronary arteries; blood circulation dynamics; heart function; colloids..electropositive colloids; heat; oxygen consumption; pulmonary edema

HE-03263 GRAY, FRANK D., Jr., Sch. Med., Yale Univ., New Haven, Conn.
carbon dioxide tension; carbon monoxide; oxygen tension; pulmonary circulation; pulmonary diffusion; pulmonary edema; pulmonary function

HE-03503 FREGLY, MELVIN J., Sch. Med. Univ. Florida, Gainesville, Fla.
renal hypertension; thyroid gland

HE-03521 SMITH, WILLIAM O., Veterans Admin. Hosp., Oklahoma City, Okla.
alcohols; kidney function; magnesium; kidney disorders; kidney circulation

HE-03565 PAFF, GEORGE H., Sch. Med., Univ. Miami, Coral Gables, Fla.
electrophysiology; heart conduction system..heart pacemakers; heart function

HE-03588 FOWLER, WARD S., Mayo Assn., Rochester, Minn.
respiration; pulmonary circulation; cinefluorography

HE-03607 WARNER, HOMER R., Latter-Day Saints Hosp., Salt Lake City, Utah
blood circulation dynamics; biomathematics; computer; blood vessels models; heart function

HE-03665 SHEPPARD, CHARLES W., Univ. Tennessee Med. Units, Memphis, Tenn.
blood circulation dynamics; indicator dilution (concentration) techniques; heart--lung preparation; computer analysis

HE-03680 EVANS, ROBERT L., Univ. Minnesota, Minneapolis, Minn.
blood flow..oscillatory blood flow; blood pressure; blood circulation dynamics; blood vessels models

HE-03719 WITTENBERG, JONATHAN B., Albert Einstein Col. Med., N.Y.C.
oxygen; swim bladder; gases; protozoa..Arcella vulgaris; cell components..cell membrane; membrane permeability and transport

HE-03755 GLASSER, RICHARD L., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
blood circulation dynamics; brain..brainstem; brain..cerebellum; brain..regulatory centers; brain mapping; cardiovascular system; decerebration; glavanic skin response; hypertension (systemic); nervous system..parasympathetic nervous system; nervous system..sympathetic nervous system; vagotomy

HE-03757 YONCE, LLOYD R., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
blood vessels vasomotion; cold; muscle..skeletal muscle; oxygen consumption; oxygen tension

HE-03815 SCOTT, JOHN C., Hahnemann Med. Col., Philadelphia, Pa.
arteries..coronary arteries; atherosclerosis; blood circulation dynamics; blood vessels resistance; cholesterol; diet; heart function; hypothyroidism; myocardial ischemia and hypoxia

HE-03875 OHLER, EDWIN A., Sch. Med., Temple Univ., Philadelphia, Pa.
adrenal cortex hormones; blood circulation dynamics; heart..myocardium; longitudinal study; muscle..smooth muscle

HE-04010 TABAKIN, BURTON S., Mary Fletcher Hosp., Burlington, Vt.
exercise; lung volume; posture; pulmonary circulation; pulmonary airway resistance; pulmonary ventilation

HE-04032 KAO, FREDERICK F., Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.
exercise; hyperpnea; chemoreceptors; respiration

HE-04036 SIEBENS, ARTHUR A., University Hosp., Madison, Wis.
muscle..respiratory muscles; coughing; spinal cord lesions; regeneration; lung; pneumonectomy; arteries.. pulmonary artery; blood pressure; exercise; pulmonary function; lung volume

HE-04042 BRODIE, DONALD C., Sch. Med., Pharm., Univ. California, San Francisco, Cal.
blood vessels; deoxyribonucleic acid; epinephrine; muscle..smooth muscle; muscle contraction; oxygen consumption

HE-04080 HICKAM, JOHN B., Sch. Med., Indiana Univ., Indianapolis, Ind.
carbon monoxide; exercise; heart failure..congestive heart failure; lung disease; lung volume; pulmonary circulation; pulmonary diffusion; pulmonary function; pulmonary ventilation

HE-04098 KENDRICK, J.E., Sch. Med., Univ. Wisconsin, Madison, Wis.
nervous system..autonomic nervous system; blood vessels; chemoreceptors; hypothermia; vasoactive agents; pulse pressure waves

HE-04108 FORSTER, ROBERT E., Grad. Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
gases; blood cells..erythrocytes; carbon dioxide; oxygen; hemoglobin; anemia; radiolabeled carbon

HE-04121 REYNOLDS, MONICA, Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
blood flow; mammary glands; lactation; tissue respiration

HE-04142 **ROSS, BENJAMIN B., Sch. Med., Univ. Oregon, Portland, Ore.**
blood flow; lung..bronchi; nerves..denervation; pulmonary ventilation

HE-04279 **STURKIE, PAUL D., Rutgers, The State Univ., New Brunswick, N.J.**
heart function; blood pressure; temperature; estrogens

HE-04457 **FORSTER, ROY P., Sch. Liberal Arts, Dartmouth Col. Hanover, N. H.**
cytology; kidney, renal tubular transport; liver; gills; environment

HE-04517 **WOLF, ARNOLD V., Sch. Med., Univ. Illinois, Chicago, Ill.**
body water; body fluids; sea water; dehydration (body fluids); thirst

HE-04573 **REMINGTON, JACK W., Georgia Med. Col., Augusta, Ga.**
blood..plasma; blood cells..erythrocytes; blood circulation dynamics; blood transfusion; blood volume; cardiovascular system; capillary beds; elasticity; hemorrhage; peripheral vascular system

HE-04734 **SWIGART, RICHARD H., Sch. Med., Univ. Louisville, Louisville, Ky.**
age; atmospheric pressure; heart, myocardium; heart enlargement; hypoxia; lung; polycythemia

HE-04735 **SAGAWA, KIICHI, Sch. Med., Univ. Mississippi, Jackson, Miss.**
arteries..carotid sinus; pressoreceptors; chemoreceptors; cardiovascular system; blood pressure

HE-04736 **LANGSTON, JIMMY B., Sch. Med., Univ. Mississippi, Jackson, Miss.**
kidney circulation; kidney function; renal hypertension; urine

HE-04738 **KAHN, ARTHUR J., Seton Hall Col. Med., Jersey City, N.J.**
heart contraction; heart..myocardium; electrophysiology; temperature; oxygen; carbon dioxide; muscle stress; muscle relaxation

HE-04741 **SMITH, ORVILLE A., Sch. Med., Univ. Washington, Seattle, Wash.**
audiostimulus; blood circulation dynamics; brain lesions; cardiovascular system; conditioning; exercise; feeding; heart rate; nervous system..central nervous system;

HE-04744 **SHEPHERD, JOHN T., Mayo Assn., Rochester, Minn.**
albumins..serum albumins; blood volume; ganglionic blocking agents (nonspecific); heart function; heart rate; oxygen consumption; pressoreceptors; pulmonary circulation

HE-04749 **GALLETTI, PIERRE M., Emory Univ., Atlanta, Ga.**
blood flow; chemoreceptors; extracorporeal circulation.. heart-lung bypass; instrumentation; kidney, artificial kidney; perfusion; pulmonary circulation; pulmonary ventilation

HE-04860 **CONWAY, EDWARD J., Med. Res. Coun. Lab., Dublin, Ireland**
ion exchange and transport; sodium; muscle..skeletal muscle; oxidation-reduction; potassium; fungi..yeasts

HE-04868 **ROSENFELD, SHELDON, Cedars Lebanon Hosp., Los Angeles, Cal.**
kidney; perfusion; ouabain; blood vessels resistance; diuresis; natriuresis; kidney circulation; kidney function; blood proteins; radiolabeled; nephrosis

HE-04906 **PENNEYS, RAYMOND, Sch. Med., Hosp. Univ. Pennsylvania, Philadelphia, Pa.**
skin; blood flow; oxygen tension; fingers; blood vessels vasomotion; plethysmography; electrodes..oxygen microelectrode

HE-04939 **HERTZMAN, ALRICK B., Sch. Med. St. Louis Univ., St. Louis, Missouri**
cardiovascular system; carbon dioxide; heat; stress; sex difference; menstruation; skin; blood flow; sweat

HE-05087 **SPERELAKIS, NICK, Sch. Med., Western Reserve Univ., Cleveland, Ohio**
heart..myocardium; heart conduction system; electrocardiography; cytology; cells; heart..myocardium intercalated discs; cell culture; muscle tone

HE-05142 **KAVALER, FREDERIC, Downstate Med. Cr., State Univ., New York, Brooklyn, N. Y.**
electrophysiology; heart..myocardium; perfusion; heart contraction; myocardial ischemia and hypoxia; epinephrine; heart..papillary muscle; muscle contraction

HE-05157 **SONNENSCHEIN, RALPH R., Sch. Med., Univ. California, Los Angeles, Cal.**
blood vessels vasomotion; blood flow; peripheral vascular system; nerves..innervation; muscle.. skeletal muscle; exercise; epinephrine; emotional reactions; norepinephrine

HE-05200 **JOHNSON, PAUL C., Sch. Med., Indiana Univ., Indianapolis, Ind.**
blood pressure; blood vessels resistance, intestines; blood vessels vasomotion; blood flow

HE-05475 **RODRIGUEZ, MARIA I., Sch. Med., Univ. El Salvador, San Salvador, C.A.**
heart..ventricles; heart conduction system, Purkinje fibers; hypoxia; drugs; trypanosomiasis; electrostimulus

HE-05516 **PERKINS, JOHN F., Jr., Univ. Chicago, Chicago, Ill.**
respiration; chemoreceptors; acid; nerves..denervation; nervous system..peripheral nerves; nervous system.. central nervous system; carbon dioxide; hydrogen--ion concentration; brain..respiratory center; apnea; epinephrine; blood pressure; exercise; dehydratases.. carbonic anhydrase

HE-05517 **JOHNSON, JOHN A., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
bicarbonate; blood flow; blood pressure; calcium; enzymes; heart; ion exchange; perfusion; potassium; sodium; temperature

HE-05543 **ALEXANDER, NATALIE, Sch. Med., Univ. Southern California, Los Angeles, Cal.**
pressoreceptors; blood pressure; heart rate; hypertension

HE-05625 **ROSTORFER, HOWARD H., Grad. Sch., Indiana Univ., Bloomington, Ind.**
kidney function; proteases..renin; renal ischemia and hypoxia; anesthesia; catecholamines; angiotensin II

HE-05627 **SMITH, CHARLES R., Col. Vet. Med., Ohio State Univ., Columbus, Ohio**
heart..ventricles; heart conduction system, Purkinje fibers; heart enlargement; veterinary medicine

HE-05675 **FOLKOW, BJORN, Univ. Goteborg, Goteborg, Sweden**
blood vessels; blood vessels vasomotion; capillaries; nervous system..sympathetic nervous system; reflex

HE-05702 **MARSHALL, JEAN M., Sch. Med., Harvard Univ., Boston, Mass.**
heart..myocardium; uterus..myometrium; ouabain; potentials..membrane potentials; progesterone; estrogens; epinephrine; hibernation; oxytocin

HE-05770 **BANK, NORMAN, New York Univ. Med. Cr., N.Y.C.**
hydrogen; ion exchange; kidney..renal tubules; kidney disorders; kidney function; sodium

HE-05782 **DAVIS, DARRELL L., Georgia Med. Col., Augusta, Ga.**
blood flow; blood pressure; blood vessels vasomotion; capillary beds; electrostimulus; hypoxia; nervous system.. sympathetic nervous system; temperature; vasoactive agents

HE-05875 **HACKEL, DONALD B., Duke Univ. Med. Cr., Durham, N.C.**
heart..myocardium; blood circulation dynamics; oxygen consumption; glucose; lactates; pyruvate; heart function; hemorrhagic shock; hypotension

HE-05929 **YUDILEVICH, DAVID L., Inst. of Sciences, Univ. Chile, Santiago, Chile**
endothelium permeability and transport; capillary beds; radiolabeled; potassium; sodium; iodide; heart

HE-06004 **STEAD, WILLIAM W., Sch. Med., Marquette Univ., Milwaukee, Wis.**
diagnostic tests; instrumentation-methodology; pulmonary emphysema; pulmonary function; smoking

HE-06035 **SHARE, LEONARD, Sch. Med., Western Reserve Univ., Cleveland, Ohio**
adrenal glands; blood volume; cerebrovascular system; hemorrhage; muscle stretch receptors; pressoreceptors; sense organs; vasopressin

HE-06040 **KARPELES, LEO M., Sch. Med., Univ. Maryland, Baltimore, Md.**
heart..myocardium; blood flow; elasticity

HE-06044 **READ, W.O., Sch. Med., Univ. South Dakota, Vermillion, S.D.**
taurine; heart; cardioactive agents..antiarrhythmic agents; epinephrine; myocardial ischemia and hypoxia; hypothermia

HE-06092 **WAUGH, WILLIAM H., Sch. Med., Univ. Kentucky, Lexington, Kentucky**
ion cation; kidney circulation; blood vessels vasomotion; catecholamines; angiotensin; muscle tone; peripheral vascular system; muscle, smooth muscle

HE-06132 **McCANN, FRANCES V., Dartmouth Med. Sch., Hanover, N.H.**
heart..myocardium; single cell analysis; potentials; electrolytes; heart conduction system

HE-06134 **ANGELAKOS, E.T., Sch. Med., Boston Univ., Boston, Mass.**
computer; electrophysiology; heart contraction; heart function; heart rate

HE-06135 **TAYLOR, PAUL M., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
age; lung; pulmonary diffusion; infant animals..newborn; hypercapnia; hypoxia; acidosis; pulmonary edema; aorta coarctation; heart..intracardiac pressures; heart..atrium; capillaries

HE-06139 **CHIEN, SHU, Sch. Med., Columbia Univ., New York, N.Y.**
hemorrhage; vasopressin; hormones; nervous system.. sympathetic nervous system; blood circulation dynamics; sympathectomy; viscera; viscosity; endotoxins; histamine; endothelium permeability; lymph; shock

HE-06142 **SWANN, HOWARD G., Sch. Med., Univ. Texas, Galveston, Tex.**
blood flow; blood cells..erythrocytes; radiolabeled albumins; tissue

HE-06143 **DONALD, DAVID E., Mayo Assn., Rochester, Minn.**
nerves..denervation; exercise; heart function; nervous system..vagus nerve; blood pressure; sympathectomy; atropine; indicator dilution (concentration) techniques; heart rate

HE-06144 **MONROE, ROBERT G., Children's Hosp., Boston, Mass.**
oxygen consumption; heart..ventricles; heart contraction; liver; spleen; kidney; adrenal glands; perfusion; epinephrine; norepinephrine

HE-06250 **FOULKES, ERNEST C., May Inst. Med. Res., Cincinnati, Ohio**
membrane permeability and transport; potassium; kidney; muscle; kidney function; aminohippourate

HE-06253 **GERST, ELIZABETH C., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
hypoxia; hypercapnia; nerves..denervation; heart; heart rate; muscle--respiratory muscle; sympathin; adrenal glands; catecholamines; hypocapnia; reserpine; pregnancy

(contd)

PHYSIOLOGY (CONTD)

HE-06262 DAVIS, DAVID E., Sch. Agr., Pennsylvania State Univ., University Park, Pa.
adipose tissue; behavior; diet; hibernation; photoperiodism

HE-06381 TOSTESON, DANIEL C., Sch. Med., Duke Univ., Durham, N.C.
blood cells..erythrocytes; body fluids; ion..anion; ion.. cation; membrane permeability; salts

HE-06389 RAMSEY, ROBERT W., Med. Col. Virginia, Richmond, Va.
heat; muscle..skeletal muscle; muscle contraction; oxygen consumption

HE-06395 RELMAN, ARNOLD S., Sch. Med., Boston Univ., Boston, Mass.
electrolytes; acid-base equilibrium; diaphragm; potassium; amino acid; rubidium; cesium; hormones

HE-06466 KREUZER, FERDINAND J.A., Sch. Med., Univ. Nijmegen, Nijmegen, Netherlands
pulmonary function; oxygen tension; veins..pulmonary vein; blood vessels shunts; acid-base equilibrium; instrumentation-methodology; polarography; altitude; catecholamines; pulmonary diffusion

HE-06487 HAUSBERGER, FRANZ X., Jefferson Med. Col., Philadelphia, Pa.
capillary beds; adipose tissue; radiolabeled chromium; blood cells..erythrocytes; starvation; obesity; rats

HE-06588 SMITH, JAMES J., Sch. Med., Marquette Univ., Milwaukee, Wis.
blood circulation dynamics; cardiovascular system; reticuloendothelial system

HE-06591 WASSERMAN, KARIMAN, Sch. Med., Stanford Univ., Palo Alto, Cal.
acid-base equilibrium; carbon dioxide; diagnostic tests; exercise; heart diseases; heart function; heart rate; respiration; therapy evaluation

HE-06593 PIEPER, HEINZ P., Ohio State Univ., Columbus, Ohio
blood circulation dynamics; cardiovascular system; catheterization; heart function

HE-06751 RENZETTI, ATTILIO D., Jr., Veterans Admin. Hosp., Salt Lake City, Utah
aging; bronchitis; microorganisms; pulmonary function; smoking

HE-06759 HADDY, FRANCIS J., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
ion..cation; ion..anion; blood vessels vasomotion; blood vessels resistance; water-electrolyte balance

HE-06782 BRIGGS, NORMAN F., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
cardioactive agents; M-B factor; adenosine triphosphate; heart contraction; proteins; calcium

HE-06795 LEVINSKY, NORMAN G., Sch. Med., Boston Univ., Boston, Mass.
adrenal cortex hormones; adrenalectomy; kidney..glomerular filtration; sodium

HE-06895 GROVER, ROBERT F., Sch. Med., Univ. Colorado, Denver, Colo.
hypoxia; pulmonary hypertension; blood vessels resistance; arteries..pulmonary artery; heart catheterization; sympatholytic agents; catecholamines inhibitors; serotonin inhibitors

HE-06896 CARONE, FRANK A., Sch. Med., Northwestern Univ., Chicago, Ill.
kidney function; calcium; hypercalcemia; hypocalcemia; radiolabeled calcium; scintillation counter; phosphorus; hypoparathyroidism; albumin; kidney..renal tubular transport; proteinuria

HE-06923 HORRES, ALAN D., Emory Univ., Atlanta, Ga.
pulmonary arterial occlusions; respiration; blood vessels vasomotion; reflex; serotonin; nerves.. regeneration; lung

HE-06971 McFEE, RICHARD, Sch. Eng., Syracuse Univ., Syracuse, N.Y.
electromagnetic fields; heart; vector magnetocardiography

HE-07002 HARVEY, RODNEY B., Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
arteries..renal artery; blood pressure; hypothermia; kidney function; perfusion

HE-07056 KLEIN, RICHARD L., Univ. Mississippi Med. Cr., Jackson, Miss.
embryology; potentials..membrane potentials; heart..myocardium; sodium; binding; mucopolysaccharides; digitalis; phosphatases..adenosine triphosphatase; cell components.. mitochondria; cell components..microsomes; actomyosin

HE-07152 WIEDERHIELM, CURT A., Univ. Washington, Seattle, Wash.
blood vessels resistance; blood pressure; blood flow; capillary beds; electronic recording

HE-07160 BOOTH, N.H., Col. Vet. Med., Colorado State Univ., Fort Collins, Colo.
blood circulation dynamics; pulmonary arterial occlusions; arteries..pulmonary artery; cholesterol; lipoproteins; cytology

HE-07285 PINTER, GABRIEL G., Sch. Med., Univ. Maryland, Baltimore, Md.
body fluids; kidney; albumins; cell volume; blood cells..erythrocytes; diuresis; kidney circulation; radiolabeled chromium; radiolabeled iodine; chylomicrons

HE-07334 NAKANO, J., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
arteries..coronary arteries; blood circulation dynamics; heart myocardium; heart failure..congestive heart failure; heart function; hyperthyroidism; peripheral vascular resistance; peripheral vascular system; triiodothyronine

HE-07359 SURAWICZ, BORYS, Univ. Kentucky Med. Cr., Lexington, Ky.
heart..atrium; heart..ventricles; potentials..action potentials; electrocardiography; heart contraction; potassium; calcium; magnesium; sodium; arrhythmia, cardiac..ventricular fibrillation; heart conduction system.. Purkinje fibers; heart intracardiac pressures; electrodes..microelectrodes

HE-07368 DALY, I. DE BURGH, Oxford Univ., Oxford, England
catecholamines; chromatography; nervous system.. sympathetic nervous system; pulmonary circulation

HE-07434 LANGE, RAMON L., Sch. Med., Marquette Univ., Milwaukee, Wis.
lung..alveolus; gas tensions; arteries..pulmonary artery; pulmonary ventilation; respiration system reflexes; pulmonary diffusion; blood

HE-07511 BECK, LLOYD, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
angiotensin; blood pressure; hypotension; kidney; proteases..renin; shock

HE-07549 JOHNSON, JOHN A., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
blood cells..erythrocytes; blood proteins..plasma proteins; blood volume; body fluids; exercise; muscle; osmotic pressure

HE-07577 MOORE, JAMES C., Sch. Med., Univ. Louisville, Louisville, Ky.
blood flow; blood pressure; capillary beds; pulmonary circulation

HE-07578 KISTIN, ALBERT D., Beckley Mem. Hosp., Beckley, W.Va.
anesthesia; arrhythmia (cardiac); atropine; heart conduction system..atrioventricular node; surgery

HE-07592 WESSON, LAURENCE G., Jr., Jefferson Med. Col., Philadelphia, Pa.
kidney function; electrolytes; diurnal variation; kidney.. glomerulus; kidney circulation; hypertension (systemic); aldosterone; diet; salts

HE-07628 LOVE, WILLIAM D., Med. Sch., Univ. Mississippi, Jackson, Miss.
blood flow; heart..atrium; heart..ventricles; radioisotopes..rubidium 86; heart catheterization; heart function; heart intracardiac pressures; heart size; arterial stenosis; pulmonary arterial occlusions; hemorrhage; nitrites; cardiac glycosides; reserpine; neurohormones; stimulus; nervous system..vagus nerve; nervous system..sympathetic nerves

HE-07644 ULLRICK, WILLIAM C., Sch. Med., Boston Univ., Boston, Mass.
heart function; heart contraction; stress; muscle tension; elasticity; proteins contraction; caloric stimulation; heart failure..congestive heart failure; computer analysis

HE-07648 BUCKLEY, NANCY M., Col. Med., Yeshiva Univ., New York, N.Y.
cardioactive agents..cardiotonic drugs; nucleosides; potentials..action potentials; heart conduction system; heart..myocardium; nerve impulse transmission

HE-07667 LITTLE, JAMES M., Bowman Gray Sch. Med., Winston-Salem, N.C.
hypoxia; blood circulation dynamics; heart function; heart rate; oxygen tension; carbon dioxide tension; acid-base equilibrium; pulmonary circulation; blood vessels vasomotion

HE-07723 ROTHE CARL F., Sch. Med., Indiana Univ., Indianapolis, Ind.
heart function; blood volume; blood pressure; veins; hemorrhagic shock; heart failure; pressoreceptors

HE-07746 SCHER, ALLEN M., Sch. Med., Univ. Washington, Seattle, Washington
blood pressure; computer analysis; electrocardiography; instrumentation-methodology; heart function

HE-07751 JOHNSON, WILLIAM H., Rensselaer Poly. Inst., Troy, N.Y.
crystallization; electrophysiology; molecular structure; muscle tension; muscle tone; paramyosin; serotonin; viscoelasticity

HE-07753 KATZUNG, BERTRAM G., San Francisco Med. Cr., Univ. California, San Francisco, Cal.
calcium; heart contraction; heart..myocardium; heart rhythm; instrumentation-methodology; ion exchange; muscle relaxation; muscle tension

HE-07764 CONWAY, JAMES, Sch. Med., Univ. Michigan, Ann Arbor, Mich.
adrenal cortex hormones; blood pressure; body fluids; heart function; heart rate

HE-07847 RUSS, CLEM, Albert Einstein Med. Cr., Philadelphia, Pa.
aminotransferases; electrophysiology; heart..myocardium; heart function; hypothermia; muscle; membrane permeability

HE-07910 GORDON, HELMUT A., Univ. Kentucky Med. Cr., Lexington, Ky.
germ-free; animal facilities; cardiovascular diseases; microorganisms; heart function; oxygen consumption; pulmonary diffusion; capillaries; body fluids; blood volume; immunology..antibodies; intestines; antibiotics; blood circulation dynamics; chemical structure--biological activity; intestines..cecum

HE-07973 **OLIVER, JEAN,** 556 Morris Ave., Summit, N.J.
kidney disorders; kidney..renal tubules; microsurgery and microdissection; fetus; water--electrolyte balance; glucose; histogenesis

HE-08008 **KASSEBAUM, DONALD G.,** Univ. Oregon Med. Sch., Portland, Ore.
acetylcholine; epinephrine; heart conduction system.. atrioventricular node; heart conduction system..Purkinje fibers; heart conduction system..sino-atrial node; nerve impulse initiation; nerves..dendrites; nervous system.. vagus nerve; neuromuscular junction; potentials.. membrane potentials

HE-08042 **ABEL, FRANCIS L.,** Indiana Univ. Med. Cr., Indianapolis, Ind.
blood flow; veins; exercise; hemorrhage; hypotension; hemorrhagic shock; heart function; heart contraction

HE-08055 **NASH, FRANKLIN D.,** Sch. Med., Indiana U. Med. Cr., Indianapolis, Ind.
kidney..renal medulla; blood flow; sodium; kidney.. renal tubular transport; antimetabolites; ureteral obstruction

HE-08074 **AYRES, STEPHEN M.,** St. Vincent's Hosp., New York, N.Y.
lung disease; oxygen tension; oxygen consumption; oxyhemoglobin

HE-08075 **SIMMONS, DANIEL H.,** Mount Sinai Hosp., Los Angeles, Cal.
acid-base equilibrium; anesthesia; blood flow; blood pressure; blood vessels vasomotion; cardiovascular system; catecholamines; implants; pulmonary circulation; vagotomy

HE-08078 **LIPSKY, JOSEPH A.,** Col. Med., Ohio State Univ., Columbus, Ohio
instrumentation-methodology; carbon dioxide tension; respiration; hyperventilation (passive); breath composition; hypocapnia

HE-08218 **ABBOTT, BERNARD C.,** Grad. Sch., Univ. Illinois, Urbana, Ill.
cardiovascular system; elasticity; muscle contraction; fatigue; ryanodine; muscle relaxation

HE-08226 **SOMLYO, ANDREW P.,** Presbyterian Hosp., Philadelphia, Pa.
mathematical models; capillary beds; anoxia; pulmonary hypertension; catecholamines; acetylstrophanthidin; vasoactive agents; muscle contraction; pulmonary circulation; muscles..smooth muscle; angiotensin

HE-08240 **BONDURANT, STUART,** Sch. Med., Indiana Univ., Indianapolis, Ind.
surface active agents; lung..alveolus; pulmonary function; surface properties; lung disease

HE-08271 **CHURNEY, LEON,** Sch. Med., Louisiana State Univ., New Orleans, La.
choline; electrical conductance; electrostimulus; heart..myocardium; laboratory facilities; muscle.. myofibrils; potentials..action potentials; sucrose

HE-08322 **ROSAS, RAMON,** Sch. Med., Univ. Catolica de Chile, Santiago, Chile
hypertension (systemic); blood pressure; nervous system.. autonomic nervous system; vasoactive agents; angiotensin; bradykinin; norepinephrine; peripheral vascular resistance; angiotensin; heart function

HE-08323 **ELSNER, ROBERT W.,** Univ. California, San Diego, La Jolla, Cal.
blood flow; arteries..aorta; arteries..renal artery; arteries.. carotid arteries; arteries..superior mesenteric artery; heart function; diving reflex; ischemia; implants; ultrasonic flowmeter

HE-08372 **VICK, ROBERT L.,** Col. Med., Baylor Univ., Houston, Tex.
arrhythmia, cardiac; heart..ventricles; heart conduction system..sino--atrial node; muscle tension; chloroform; drugs; epinephrine; norepinephrine; cardiac glycosides; aconitine; veratrine; MSH; single cell analysis; potentials..membrane potentials; bradykinin

HE-08433 **VAN CITTERS, ROBERT L.,** Sch. Med., Univ. Washington, Seattle, Wash.
arteries..aorta; arteries..pulmonary artery; blood flow; blood pressure; brain..brain stem; brain..hypothalamus; brain lesions; conditioning; electrostimulus; exercise; heart function; implants; posture; primates, baboons; veins, vena cava inferior

HE-08465 **LENFANT, CLAUDE,** Firland Sanatorium, Seattle, Wash.
age; blood flow; carbon dioxide; lung..alveolus; nitrogen; oxygen; oxygen inhalation therapy; pulmonary diffusion; pulmonary ventilation; sex difference

HE-08468 **NEILL, WILLIAM A.,** Sch. Med., Univ. Oregon, Portland, Ore.
heart..myocardium; blood flow; oxygen consumption; myocardial ischemia and hypoxia; anemia; lactates; pyruvate; arteries..coronary arteries; perfusion

HE-08477 **SOLOMON, SIDNEY,** Sch. Med., Univ. New Mexico, Albuquerque, N.M.
cesium; electrolytes; enzymes; hydrogen; ion exchange; kidney..renal medulla; kidney function; lithium; potassium; rubidium; sodium

HE-08507 **YANOF, HOWARD M.,** Sch. Med., St. Louis Univ., St. Louis, Mo.
blood flow impedance; blood circulation dynamics; peripheral vascular system; capillary beds; hemorrhagic shock; instrumentation--methodology; implants; epinephrine; norepinephrine; histamine; veins.. portal vein

HE-08524 **SPENCER, MERRILL P.,** Virginia Mason Res. Cr., Seattle, Wash.
instrumentation; catheterization; electromagnetic flowmeter; computer; arteries; blood volume; elasticity; blood vessels resistance; flowmeters

HE-08526 **LAUPUS, WILLIAM E.,** Med. Col. Virginia, Richmond, Va.
arteries; blood pressure; blood vessels vasomotion; cold; growth, heart rate; infants (human)..newborn; plethysmography

HE-08529 **HACKNEY, JACK D.,** Rancho Los Amigos Hosp., Downey, Cal.
carbon dioxide; obesity; body composition; mathematical models; lung..alveolus; abdomen..intra--abdominal pressure; pulmonary ventilation; carbon dioxide transport

HE-08573 **JONES, RICHARD D.,** St. Luke's Hosp., Cleveland, Ohio
blood flow; blood vessels resistance; blood vessels vasomotion; muscle..skeletal muscle; muscle contraction; myogenic; homeostasis; perfusion; electrostimulus; oxygen consumption

HE-08576 **LA FORCE, RICHARD C.,** Alameda County State Col., Hayward, Cal.
oxygen transport; carbon monoxide; ion exchange and transport; diffusion; membrane permeability and transport; hemoglobin; solutions; sodium; biomathematics; membrane models

HE-08590 **KOT, PETER A.,** Sch. Med., Georgetown Univ., Washington, D.C.
arterial infusions; extracorporeal circulation; hyperoxia; oxygen tension; peripheral vascular resistance; pulmonary circulation; vasoactive agents

HE-08606 **McDONALD, DONALD A.,** Research Inst., Presbyterian Hosp., Philadelphia, Pa.
arteries; blood circulation dynamics; blood flow impedance; capillary beds; instrumentation-methodology; peripheral vascular resistance; pressoreceptors; vasoactive agents

HE-08607 **McFEE, RICHARD,** Col. Eng., Syracuse Univ., Syracuse, N.Y.
computer diagnosis; electrocardiography; heart diseases; instrumentation

HE-08618 **NICOLL, PAUL A.,** Indiana Univ., Indianapolis, Ind.
capillary beds; blood flow; blood pressure; microcirculation

HE-08620 **JOHNSON, EDWARD A.,** Duke Univ. Med. Cr., Durham, N.C.
electrostimulus; heart..ventricles; heart conduction system; membrane models; membrane permeability; muscle contraction; potentials..action potentials; single cell analysis

HE-08658 **KIRK, EDWARD S.,** Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
heart..myocardium revascularization; arteries..coronary arteries; blood flow; blood pressure; heart rate; vasoactive agents; muscle tone; blood vessels resistance; radiolabeled rubidium

HE-08759 **ALEXANDER, ARCHIBALD F.,** Col. Vet. Med., Colorado State Univ., Fort Collins, Col.
genetics; acclimatization; bovine high mountain disease; hematopoiesis; oxygen transport; hemoglobin; pulmonary ventilation; pulmonary hypertension; blood circulation dynamics; veterinary medicine

HE-08775 **LEVITT, JOHN I.,** Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
acid-base equilibrium; arteries..renal artery; arterial infusions; bicarbonates; acetazolamide; enzyme inhibitors..carbonic anhydrase inhibitors; dosage; kidney..renal tubular transport

HE-08776 **HOLADAY, DUNCAN A.,** Sch. Med., Univ. Chicago, Chicago, Ill.
pulmonary airway resistance; respiration; muscle.. laryngeal muscles; carbon dioxide tension; hydrogen-ion concentration; tracheotomy; trachea..intratracheal pressure; diaphragm

HE-08779 **SOKABE, HIROFUMI,** Fac. Med., Univ. Tokyo, Tokyo, Japan
proteases..renin; sodium; water-electrolyte balance; aldosterone stimulating factor; kidney; sea water; inland fresh waters

HE-08803 **GOETZ, KENNETH L.,** Univ. Kansas Med. Cr., Kansas City, Kans.
heart..atrium; heart intracardiac pressures; heart rate; reflex; adrenergic receptors; heart bypass; blood flow; vasopressin

HE-08817 **MAIZELS, MONTAGUE,** University Col., London, England
ions..cation; ion exchange and transport; blood cells ..erythrocytes; adenosine triphosphate; lactates; ouabain; lipids; binding; radiolabeled potassium; radiolabeled sodium

HE-08848 **CHANG, CHIEH-CHIEN,** Catholic Univ., Washington, D.C.
blood flow..oscillatory blood flow; arteries; viscosity; temperature; liquid flow impedance; biological models

HE-08857 **BERNTHAL, THEODORE G.,** Med. Col. South Carolina, Charleston, S.C.
carotid body; hypoxia; hypocapnia; potentials..action potentials; acclimatization; atmospheric pressure; tissue respiration; gas tensions

(contd)

PHYSIOLOGY (CONTD)

HE-08866 HORNBEIN, THOMAS F., Sch. Med., Univ. Washington, Seattle, Wash.
pulmonary ventilation; carotid body; homeostasis; nervous system..sympathetic nerves; nerves.. innervation; gas tensions; potentials..action potentials; acid-base equilibrium

HE-08882 ALEXANDER, CLAUDE G., Sch. Biology, San Francisco State Col., San Francisco, Cal.
urea; osmotic pressure; heart function; muscle contraction; potentials..membrane potentials; heart.. atrium; fish

HE-08884 HENNACY, RICHARD, Sch. Dent., Fairleigh Dickinson Univ., Teaneck, N.J.
veins..vena cava inferior; blood vessels vasomotion; heart function; heart intracardiac volume; drugs

HE-08922 REEVES, T. JOSEPH, Univ. Alabama Med. Cr., Birmingham, Ala.
heart..papillary muscles; heart..ventricles; heart function; heart contraction; muscles..myofibrils; muscle stress; elastin; biomathematics; biological models; oxygen consumption; heart failure; heat

HE-08923 PAES DE CARVALHO, ANTONIO, Univ. Brazil, Rio de Janeiro, Brazil
ion exchange and transport; potentials..action potentials; heart..myocardium; heart conduction system..sino-atrial node; heart conduction system.. atrioventricular node; hypoxia; acetylcholine; catecholamines; temperature; sodium

HE-08924 SCOTT, JERRY B., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
blood flow; blood pressure; oxygen; carbon dioxide; reaction sites; perfusion

HE-09019 FOZZARD, HARRY A., Sch. Med., Washington Univ., St. Louis, Mo.
heart conduction system..Purkinje fibers; heart..myocardium; muscles..sarcoplasmic reticulum; ion exchange and transport; molecular structure; cardioactive agents; electrophysiology; arrhythmia, cardiac

HE-09049 BISHOP, JACK G., Sch. Dent., Baylor Univ., Dallas, Tex.
cardiovascular system; epinephrine; norepinephrine; histamine; blood flow; peripheral vascular resistance; blood pressure; mouth; autonomic agents; blood circulation dynamics; acetylcholine; parathyroid hormones; oxygen tension; carbon dioxide tension

HE-09061 FEIGL, ERIC O., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
laboratory facilities; blood circulation dynamics; nervous system..central nervous system; brain mapping; pressoreceptors

HE-09075 THORSON, THOMAS B., Col. Arts, Sci., Univ. Nebraska, Lincoln, Nebr.
fish; inland fresh waters; osmotic pressure; homeostasis; urea; water--electrolyte balance; body fluids; rectal gland; blood volume; blood proteins..serum proteins; trimethylamine--n--oxide

HE-09097 KANTER, GERALD S., Albany Med. Col., Albany, N.Y.
kidney circulation; blood vessels resistance; kidney ..renal tubular transport; kidney..glomerular filtration; hypothermia; acidosis; secretory mechanisms; ammonia; hydrogen--ion concentration; potassium; sympatholytic agents; viscosity

HE-09130 MITHOEFER, JOHN C., Mary Imogene Bassett Hosp., Cooperstown, N.Y.
oxygenation; hemoglobin; carbon dioxide tension; binding; atmospheric pressure; oxygen transport; carbon dioxide transport

HE-09131 SPENCER, MERRILL P., Virginia Mason Res. Cr., Seattle, Wash.
cerebrovascular system; blood flow; blood pressure; arteries, carotid arteries; veins..cavernous sinus, reproductive; cerebral aneurysm; instrumentation--methodology; primates; species

HE-09169 WILDE, WALTER S., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
albumins; hydrostatic pressure; kidney..renal medulla; kidney circulation; osmotic pressure; radiolabeled iodine; radiolabeled carbon; thirst; diuresis; papaverine; vasopressin

HE-09170 WARE, FREDERICK, Univ. Nebraska Col. Med., Omaha, Nebr.
ions; heart..ventricles; potentials..action potentials; membrane permeability and transport; nerve impulse transmission; single cell analysis; computer analysis; chlorides

HE-09171 LONGOBARDO, GUY S., Sch. Eng., Applied Sci., Columbia Univ. New York, N.Y.
mathematical models; respiration; pulmonary ventilation; carbon dioxide tension; chemoreceptors; brain, respiratory center

HE-09199 FRY, WILLIAM J.,Univ. Michigan Med. Cr., Ann Arbor, Mich.
blood flow; capillary beds; peripheral vascular resistance; vasoactive agents..vasodilators; arterial occlusions

HE-09249 LENTINI, EUGENE A., Med. Col. Virginia, Richmond, Va.
heart function; heart..myocardium; glucose; insulin; oxygen tension; amino acids; oxygen transport

HE-09257 BRADY, ALLAN J., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
heart..myocardium; muscle contraction; nerve impulse transmission; potentials..action potentials; calcium; viscoelasticity; membrane models; biomathematics; computer analysis; perfusion

HE-09284 YAMAMOTO, WILLIAM S., Sch. Med., Pennsylvania Univ., Philadelphia, Pa.
laboratory facilities; computer analysis; pulmonary ventilation; carbon dioxide tension; blood flow.. oscillatory blood flow; chemoreceptors; central nervous system..nervous system; blood--brain barrier; hyperpnea; respiration; nerves..neurons; mathematical models

HE-09339 NASH, FRANKLIN D., Indiana Univ. Med. Cr., Indianapolis, Ind.
sodium; kidney cells; kidney..juxtaglomerular apparatus; kidney..renal tubular transport; cell components; kidney circulation; adrenal glands; proteases..renin; computer analysis; perfusion; catecholamines; homeostasis; renal hypertension; heart failure..congestive heart failure

HE-09350 LUISADA, ALDO A., Chicago Med. Sch., Chicago, Ill.
heart sounds; heart weight; heart contraction; heart..ventricles; heart function; blood circulation dynamics; cardiovascular system; blood pressure triphosphatase; nucleotides; antibiotics..oligomycin; electron microscopy

HE-09377 KLEINFELD, MORRIS, Maimonides Hosp., Brooklyn, N.Y.
heart conduction system..Purkinje fibers; heart.. myocardium; enzyme inhibitors; drugs; potentials.. membrane potentials; electrodes..microelectrodes

HE-09429 CROPP, GERALD J., Univ. Colorado Med. Cr., Denver, Colo.
blood flow; blood volume; biological models; biomathematics; heart function; congenital heart disorders..septal defect

HE-09442 GORDON, DAVID B., Veterans Admin. Hosp., San Francisco, Cal.
blood pressure; kidney function; kidney; antihypertensive agents; proteases..renin; kidney circulation; renal hypertension

HE-09446 KOLTHOFF, NORMA J., Frances Payne Bolton Sch. Nursing, Western Reserve Univ., Cleveland, Ohio
adrenal glands; blood flow; regeneration; injuries.. wound healing; patient care; blood flow impedance; epinephrine; norepinephrine; nervous system.. splanchic nerves

HE-09471 LEHAN, PATRICK H., Seton Hall Col. Med., Jersey City, N.J.
blood collateral circulation; heart..myocardium revascularization; heart function; peripheral vascular resistance; oxygen consumption; vasoactive agents..vasodilators; coronary occlusions and thrombosis; nitroglycerin; epinephrine; norepinephrine

HE-09508 SOKABE, HIROFUMI, Fac. Med., Univ. Tokyo, Tokyo, Japan
hypertension (systemic); kidney function; proteases ..renin; angiotensin; angiotensinogen; blood pressure; kidney transplantation; genetic strains

HE-09516 DOWNING, S. EVANS, Sch. Med., Yale Univ., New Haven, Conn.
heart function; blood circulation dynamics; acidosis; hypoxia; catecholamines; nervous system..autonomic nervous system; temperature; heart..ventricles; heart rate; blood pressure; arteries..aorta; blood vessels shunts

HE-09533 FREEDMAN, ROBERT I., Sch. Med., Univ. Southern California, Los Angeles, Cal.
skin; blood flow; ultraviolet rays; dermatitis; heart function; thermoregulation; nutrition; radiolabeled iodine; radiolabeled sodium

HE-09587 KLOCKE, FRANCIS J., Buffalo Gen. Hosp., Buffalo, N.Y.
gas chromatography; heart function; gases.. inert gases; endothelium permeability; diffusion; muscles..skeletal muscle; kidney; brain; blood flow

HE-09644 SAGAWA, KIICHI, Univ. Mississippi Med. Cr., Jackson, Miss.
blood pressure; homeostasis; nervous system, central nervous system; heart function; heart intracardiac pressures; pressoreceptors; biomathematics; computer simulation; arteries..carotid sinus

HE-09657 FRANKEL, HARRY M., Grad. Col., Rutgers State Univ., New Brunswick, N.J.
carotid body; respiration; gas tensions; sensory mechanisms; physiogeny; reptiles

HE-09658 PRICE, KENT S., Old Dominion Col., Norfolk, Va.
osmotic pressure; urea; sodium chloride; trimethylamino--N--oxide; coastal waters; temperature; water--electrolyte balance; seasonal variation

HE-09669 HANENSON, IRWIN B., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
ion..bivalent cations; parathyroid hormones; peripheral vascular resistance; hypertension (systemic); muscle contraction; adrenal cortex hormones; arteries..aorta; membrane permeability; blood circulation dynamics; calcium; radiolabeled potassium; radiolabeled sodium; radiolabeled calcium

HE-09718 PAX, RALPH A., Col. Natural Sci., Michigan State Univ., East Lansing, Mich.
heart; heart conduction system; nerves..neurons; ganglion, nervous system; single cell analysis; nerve impulse transmission; cell types

HE-09719 BASSINGTHWAIGHTE, J.B., Mayo Fdn., Rochester, Minn.
blood circulation dynamics; endothelium permeability; indocyanine green; mathematical models; heart diseases; blood cells..erythrocytes; liver function; computer analysis; radiolabeled chromium; radiolabeled carbon; radiolabeled sodium

HE-09735 KOUSHANPOUR, ESMAIL, Sch. Med., Northwestern Univ., Chicago, Ill.
pressoreceptors; arteries..carotid sinus; electrophysiology; cardiovascular system; computer analysis; exercise; hypertension (systemic)

HE-10061 ROBIN, EUGENE D., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
diving reflex; aquatic animals; pulmonary function; heart function; carbon dioxide; acid--base equilibrium; pulmonary diffusion; pulmonary ventilation; pulmonary airway resistance; gases; respiration

HE-10062 COULTER, NORMAN A., Jr., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
respiration; heart rate; lung volume; thorax..intrathoracic pressure; mathematical models; arrhythmia (cardiac); pulmonary circulation; blood pressure; RHR reflex

MH-03312 KORNETSKY, CONAN, Sch. Med., Boston Univ., Boston, Mass.
alertness-vigilance; behavior; conditioning..operant conditioning; drugs tolerance; perception; psychotropic drugs; reinforcement; schizophrenia

MH-04440 SPURR, GERALD B., Univ. Tennessee Med. Units, Memphis, Tenn.
alcoholism; water-electrolyte balance; blood circulation dynamics; endothelium permeability; ion; radiolabeled; primates..monkeys

MH-05754 JACOBS, HARRY L., Univ. Illinois, Urbana, Ill.
appetite; sugar; psychophysiology; diet; brain..subcortical structures; nervous system..peripheral nerves; taste; intestines; chemoreceptors; electrophysiology; feeding behavior; hunger; thirst; drive

MH-06209 AMES, ADELBERT, III, Massachusetts Mem. Hosp., Boston, Mass.
eye..retina; photostimulus; electrophysiology; nervous system..optic nerve; electrolytes; brain; meninges.. choroid plexus; cerebrospinal fluid

MH-06346 WIEBERS, JACOB E., Grad. Sch., Purdue Univ., Lafayette, Ind.
galvanic skin response; sweat; blood flow; environment; temperature; thermoregulation; vasoactive agents

MH-11291 KOBAYASHI, YUTAKA, Worcester Fdn. Expti. Biol., Inc., Shrewsbury, Mass.
mental disorders; oxidoreductases..monoamine oxidase; enzyme inhibitors..monoamine oxidase inhibitors; blood..plasma; stimulants..antidepressants; parnate; trifluoperazine; perphenazine; trihexyphenidyl; isocarboxazid; phenelzine; schizophrenia; depression; stress; brain; catecholamines

NB-00021 BULLOCK, THEODORE H., Univ. California, Los Angeles, Cal.
electrophysiology; marine biology; nerves; phylogeny

NB-00031 WANG, S.C., Col. Phys., Surg., Columbia Univ., New York, N.Y.
brain, hypothalamus; brain..brain stem; electrostimulus; blood flow; heart rate; arteries..coronary arteries; heart contraction; nervous system..autonomic nervous system; blood pressure; convulsants; ganglionic blocking agents; sympatholytic agents; parasympatholytic agents; arrhythmia, cardiac; vasopressin; respiration; electrophysiology; brain..respiratory center; cardioactive agents.. antiarrhythmic agents

NB-00173 SCHOEPFLE, GORDON M., Sch. Med., Washington Univ., St. Louis, Mo.
nerves..neurofibrils; antimetabolites; potentials..membrane potentials; sodium; diffusion; nerve impulse transmission; single cell analysis

NB-00395 PATTON, HARRY D., Grad. Sch., Univ. Washington, Seattle, Wash.
brain..cerebral cortex; electrophysiology; electrostimulus; nervous system..afferent nerves; nervous system..extrapyramidal tracts; nervous system..pyramidal tracts; primates..monkeys

NB-00623 WELSH, JOHN H., Harvard Univ., Cambridge, Mass.
LSD; nervous system; neurohormones; reserpine; serotonin; venoms

NB-00702 LARRABEE, MARTIN G., Sch. Arts, Sci., Johns Hopkins Univ., Baltimore, Md.
nervous system..sympathetic nerves; ganglion, nervous system..autonomic ganglia; lipids; radiolabeled carbon; radiolabeled phosphorus; nerve impulse transmission; sodium; ion exchange and transport; radiolabeled sodium; ribonucleic acid

NB-00850 HINES, MARION, Sch. Med., Emory Univ., Atlanta, Ga.
muscle; muscle contraction; nerves; proteins; regeneration

NB-00884 LIBET, BENJAMIN, Sch. Med., Univ. California, San Francisco, Cal.
ganglion, nervous system..sympathetic ganglia; nerves.. synapse; electrophysiology

NB-00937 SLEATOR, WILLIAM, Jr., Sch. Med., Washington Univ., St. Louis, Mo.
acetylcholine; cell components..cell membrane; electrolytes; epinephrine; heart contraction; heart myocardium; potentials..action potentials; strophanthin

NB-00954 METZ, BERNARD, Med. Col. South Carolina, Charleston, S.C.
acetylcholine; brain..respiratory center; carbon dioxide; cholinesterases..acetylcholinesterase; hemicholinium; reflex; respiration

NB-01045 MOUNTCASTLE, VERNON B., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
nervous system..somatic afferent nerves; brain..thalamic nuclei; brain..cerebral cortex; potentials; single cell analysis; limbs movement; primates..monkeys; computer

NB-01311 DOMINO, EDWARD F., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
arousal; brain..brain stem; brain..cerebral cortex; brain..hypothalamus; brain..limbic system; brain.. reticular formation; neurohormones; parasympathomimetic agents; species

NB-01312 PURPURA, DOMINICK P., Col. Phys., Surg., Columbia Univ., New York, N.Y.
brain..thalamus; electrophysiology; single cell analysis; neural recruitment; nerves..synapse; brain..cerebellum; histogenesis; infant animals; brain lesions; epilepsy; potentials..membrane potentials; brain..cerebral cortex

NB-01347 PERRYMAN, JAMES H., Col. Dent., New York Univ., New York, N.Y.
neurosurgery..nerve stretching; instrumentation--methodology; respiratory system reflexes; potentials..evoked potentials; pain; brain..brain stem; audiostimulus; photostimulus; electrostimulus; cross modal transfer; spinal cord; blood pressure

NB-01434 DAVIES, PHILIP W., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
potentials..membrane potentials; muscle..skeletal muscle; perfusion; instrumentation; ion

NB-01450 KATZMAN, ROBERT, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
binding; brain; ion..cations; ion exchange; lipids; nerves ..neuroglia; potassium; radiolabeled sodium; sodium; surface properties

NB-01451 FLOREY, ERNST, Grad. Sch., Univ. Washington, Seattle, Wash.
nerve impulse transmission; nerves..neurons; single cell analysis; nerve impulse inhibition; membrane permeability and transport

NB-01466 LOEWENSTEIN, WERNER R., Col. Phys., Surg., Columbia Univ., New York, N.Y.
nerve endings; nervous system..afferent nerves; electrophysiology; electrodes..microelectrodes; end--organs; nerve impulse initiation; sense organs

NB-01576 PERL, EDWARD R., Col. Med., Univ. Utah, Salt Lake City, Utah
nerves..neurons; spinal cord..lateral column; single cell analysis; electrophysiology; nervous system..autonomic nervous system; nervous system..preganglionic fibers

NB-01624 COHEN, MELVIN J., Univ. Oregon, Eugene, Ore.
proprioceptors; limbs; electrodes..microelectrodes; nervous system..central nervous system; gangliocytes; nervous system..efferent nerves; electrophysiology; regeneration

NB-01650 KOKETSU, KYOZO, Sch. Med., Univ. Illinois, Chicago, Ill.
potentials..membrane potentials; cell components..cell membrane; radiolabeled calcium; radiolabeled phosphorus; muscle; nerves..neurons; ion; antimetabolites; single cell analysis; phospholipids; proteins

NB-01752 WOODBURY, J. WALTER, Grad. Sch., Univ. Washington, Seattle, Wash.
heart..myocardium; potentials..action potentials; single cell analysis; ion exchange and transport; membrane permeability and transport; muscle..skeletal muscle

NB-01927 RITCHIE, JOSEPH M., Col. Med., Yeshiva Univ., New York, N.Y.
acetylcholine; electrophysiology; nerves..axons; membrane permeability and transport; ions; sodium; potassium; nerves..neurons; anesthetics

NB-01932 BENJAMIN, ROBERT M., Sch. Med., Univ.Wisconsin, Madison, Wis.
brain..thalamocortical tracts; taste; electrophysiology; brain mapping; single cell analysis; temperature; behavior; brain lesions; primates.. monkeys

NB-01941 MAYER, JEAN, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
brain..regulatory centers; brain, hypothalamus; appetite; thirst; conditioning; stomach motility; stereotaxia; electrostimulus; hormones; gold thioglucose; blood-brain barrier

NB-01954 WARD, JAMES W., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
brain, caudate nucleus; brain, orbital cyri; brain mapping; brain oscillography; electrophysiology; electrodes; limbs movement; electrostimulus; potentials; nerves..synapse; brain lesions; brain, putamen; primates, squirrel monkeys

NB-01993 OCHS, SIDNEY, Indiana Univ., Indianapolis, Ind.
direct cortical response; electrostimulus; potentials; nerves..interneurons; electrodes..microelectrodes

(contd)

PHYSIOLOGY (CONTD)

NB-02091 **BROOKS, DANA, C., Sch. Med., Cornell Univ., N.Y.C.**
arousal; brain..hippocampus; brain..rhinencephalon; sleep

NB-02253 **KUFFLER, STEPHEN W., Sch. Med., Harvard Univ., Cambridge, Mass.**
gamma-amino-butyric acid; enzymes; nerves; pericardial organ corpus cardiacum; invertebrate hormones

NB-02260 **HUBEL, DAVID H., Harvard Univ., Boston, Mass.**
brain..visual cortex; brain..geniculate body lateral; nervous system..optic nerve; electrophysiology; single cell analysis; brain mapping; photostimulus; vision; primates..monkeys

NB-02479 **FUSCO, MADELINE M., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
brain..hypothalamus; thermoregulation; temperature; electrodes; behavior

NB-02540 **CHAMBERS, WILLIAM W., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
brain..corticofugal systems; brain..arcuate nucleus; brain..cuneate nucleus; brain..somatosensory cortex; limbs; electrophysiology; reflex; conditioning

NB-02567 **TERZUOLO, CARLO A., Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.**
brain..reticular formation; nerves..motor neurons; spinal cord; ear..vestibular apparatus; single cell analysis; electrophysiology; electron microscopy; enzymes; respiratory enzymes; muscle stretch receptors

NB-02606 **KLEINHOLZ, LEWIS H., Reed Col., Portland, Ore.**
invertebrate hormones; neurohormones; bioassay; cytology

NB-02619 **WILSON, VICTOR J., Rockefeller Inst., New York, N.Y.**
nerve impulse facilitation; nerves..motor neurons; nerves ..interneurons; spinal cord; electrophysiology; single cell analysis; reflex; nerve impulse inhibitions; brain.. brain stem

NB-02645 **MANNING, JOHN W., Sch. Med., Emory Univ., Atlanta, Ga.**
brain..hypothalamus; brain..reticular formation; cardiovascular system; electrophysiology; heart function; nervous system..autonomic nervous system

NB-02697 **KATSUKI, YASUJI, Tokyo Med., Dent. Univ., Tokyo, Japan**
diocone microscopy; electrophysiology; instrumentation; nerves..neurons; single cell analysis

NB-02712 **EDWARDS, CHARLES, Sch. Med. Sci., Univ. Minnesota, Minneapolis, Minn.**
calcium; electrophysiology; muscle; neuromuscular transmission; radioautography

NB-02772 **WALSH, RAYMOND R., Sch. Med., Univ. Colorado, Denver, Colo.**
autonomic agents; cell components..cell membrane; nerve impulse transmission; nerves; potentials; quaternary ammonium compounds; surface active agents

NB-02796 **HODES, ROBERT, Mount Sinai Hosp., N.Y.C.**
blood pressure; brain..brain stem; brain..sleep inducing area; brain mapping; carbon dioxide; electrocardiography; electrocorticography monitor; lung..alveolus; nervous system..visceral afferent nerves

NB-02798 **SUGIOKA, KENNETH, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
brain; carbon dioxide tension; cerebroarterial occlusions extracranial; electrodes..microelectrodes; instrumentation; oxygen tension; potassium; sodium

NB-02800 **GORDON, MALCOLM W., Inst. Living, Hartford, Conn.**
homeostasis; brain; blood-brain barrier; amino acid; amine; drugs; hormones; cell components..mitochondria; embryology; osmotic pressure; liver

NB-02816 **LLOYD, DAVID P.C., Rockefeller Inst., New York, N.Y.**
sweat glands; nervous system..afferent nerves; skin; muscles; body temperature; phenoxybenzamine; guanethidine; dibenthin; autonomic reflexes

NB-02902 **BURNSTOCK, GEOFFREY, Univ. Melbourne, Victoria, Australia**
muscle..smooth muscle; nervous system..autonomic nervous system; neurohormones; neuromuscular junction; neuromuscular transmission; phylogeny; potentials..action potentials; potentials..membrane potentials

NB-02911 **ROSE, JERZY E., Sch. Med., Univ. Wisconsin, Madison, Wis.**
audiostimulus; brain..auditory cortex; brain..cerebral cortex; brain..thalamus; brain lesions; potentials; radiation effects

NB-02944 **KENNEDY, DONALD, Grad. Sch., Stanford Univ., Stanford, Cal.**
nerves..interneurons; nerve impulse transmission; nerve impulse facilitation; nerve impulse inhibition; electrophysiology; single cell analysis; photosensitivity; nerves ..neurons

NB-02957 **PRESTON, JAMES B., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.**
brain..motor cortex; spinal cord; nerves..motor neurons; single cell analysis; primates..monkeys

NB-03022 **SHEPARD, ROBERT S., Sch. Med., Wayne State Univ., Detroit, Mich.**
vagotomy; blood circulation dynamics; respiration; sympathomimetic agents; ganglionic blocking agents; histamine; atropine; exercise; blood pressure

NB-03047 **HOFF, EBBE C., Med. Col. Virginia, Richmond, Va.**
brain; nervous system..autonomic nervous system; electrostimulus; heart function; blood vessels vasomotion; gastrointestinal motility; blood flow; respiration; ethanol; tranquilizers

NB-03048 **SCHADE, JOHANNES P., Netherlands Central Inst. Brain Research, Amsterdam, Holland**
brain..cerebral cortex; brain..cerebral pyramidal cells; histogenesis; nerves..dendrites; embryology; infant animals..newborn; enzyme inhibitors

NB-03266 **EMMERS, RAIMOND, Col. Phys., Surg., Columbia Univ., N.Y.C.**
taste; food; behavior; brain lesions; nerves degeneration; brain..thalamic nuclei; brain..cerebral cortex; brain mapping

NB-03269 **CHAET, ALFRED B., Col. Arts, Sci., American Univ., Washington, D.C.**
fertilization; germ cells; hormones; nerves; neurohormones; reproduction; species

NB-03270 **GRUNDFEST, HARRY, Col. Phys., Surg., Columbia Univ., New York City, N. Y.**
muscle; nerves..axons; potentials..membrane potentials; ion exchange and transport; membrane permeability and transport; sodium; cell volume; nerves..synapse

NB-03273 **FURSHPAN, EDWIN J., Sch. Med., Harvard Univ., Boston, Mass.**
nerves..neurons Mauthner's

NB-03333 **GOLDSMITH, TIMOTHY H., Grad. Sch., Yale Univ., New Haven, Conn.**
visual pigments; electrophysiology; eye..compound eye; photosensitivity; ultraviolet rays; color vision

NB-03337 **ARVANITAKI-CHALAZONITIS, ANGELIQUE, Cr. Natl. Res. Sci., Paris, France**
photostimulus; nervous system; sense organs; photoreceptors

NB-03437 **MOORE, JOHN W., Duke Univ. Med. Cr., Durham, N.C.**
membrane permeability; nerve impulse transmission; nerves..axons; potassium; sodium

NB-03508 **CURTIS, ROBIN L., Sch. Med., Dent., Seton Hall Col., Jersey City, N.J.**
muscular dystrophy; electrodes..microelectrodes; nerves..innervation; muscle

NB-03521 **MEGIRIAN, DAVID, Emory Univ., Atlanta, Ga.**
proprioceptors; neck; posture; muscle; limbs; spinal reflex; electrophysiology; potentials..evoked potentials; nerves..motor neurons; nervous system..vestibular nerve; primates..monkeys

NB-03522 **DEMPSHER, JOHN, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
nerves..neurons; viruses..neurotropic viruses; nerve impulse transmission; nervous system..sympathetic nerves; acetylcholine; cholinesterases; epinephrine; norepinephrine; gamma-aminobutyric acid; electrophysiology

NB-03536 **HAGIWARA, SUSUMU, Sch. Med., Univ. California, Los Angeles, Cal.**
electric organ; ion; nerve impulse transmission; nerves..neurons; potentials; sense organs; single cell analysis

NB-03602 **RALPH, CHARLES L., Grad. Sch., Univ. Pittsburgh, Pittsburgh, Pa.**
invertebrate hormones; nervous system; tissue respiration; heart function

NB-03663 **LEVINE, LEONARD, Sch. Med., Univ. Virginia, Charlottesville, Va.**
neuromuscular junction; nerves; implants; electrodes ..microelectrodes; potentials; fatigue

NB-03666 **ECKERT, ROGER D., Grad. Sch., Syracuse Univ., Syracuse, N.Y.**
luminescence..bioluminescence; protozoa..dinoflagellates; potentials, membrane potentials; ion exchange

NB-03734 **NORRIS, FORBES H., Jr., Sch. Med., Univ. Rochester, Rochester, N.Y.**
muscle contraction; potentials..membrane potentials; nerves..denervation; single cell analysis; muscular dystrophy; muscular diseases; electrodes; electromyography; neuromuscular junction; muscles..skeletal muscle

NB-03735 **LILLEHEI, C. WALTON, Sch. Med., Univ. Minnesota, Minneapolis, Minnesota**
intracranial pressure; cerebrospinal fluid pressure; hypercapnia; mechanical pressure; diuretics; buffers; steroids; blood pressure; blood flow; brain; water-electrolyte balance

NB-03736 **THIES, ROGER E., Sch. Med., Washington Univ., St. Louis, Mo.**
acetylcholine; electrolytes; nerve endings; neuromuscular junction; potentials; single cell analysis; temperature

NB-03745 **POGGIO, GIAN F., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
brain..thalamic nuclei; nervous system..afferent nerves; nerves..synapse; nerves degeneration; nerve impulse transmission; single cell analysis

NB-03814 **CRAIN, STANLEY M., Col. Phys., Surg., Columbia Univ., N.Y.C.**
cytology; electrodes..microelectrodes; electrophysiology; histogenesis; nerve impulse transmission; nerves..neuroglia; nervous system; regeneration; Schwann cells

NB-03819 **HOYLE, GRAHAM, Grad. Sch., Univ. Oregon, Eugene, Ore.**
neuromuscular transmission; muscle contraction; electromyography; membrane permeability and transport; ion exchange and transport; nerve impulse inhibition; potentials..membrane potentials

NB-03895 CSAKY, T.Z., Col. Med., Univ. Kentucky, Lexington, Ky.
astrocytoma; blood-brain barrier; cardiac glycosides; 3-o-methyl glucose; neoplastic cells; nerves..astrocytes; radiolabeled carbon; sugar; tritium

NB-03896 KARE, MORLEY R., North Carolina State Col., Raleigh, N.C.
discrimination; electrophysiology; phylogeny; taste

NB-03904 MOZELL, MAXWELL M., Med. Sch., State Univ. New York, Albany, N.Y.
nose; mucous membrane; odors; nervous system..olfactory nerve; nerves..innervation; sensory mechanisms; discrimination; electrophysiology

NB-03925 SHAPIRO, HERBERT, Albert Einstein Med. Cr., Philadelphia, Pa.
blood supply; electrophysiology; hypothermia; membrane permeability; muscle contraction; nerve impulse initiation; nerves..axons; neuromuscular transmission; regeneration; water-electrolyte balance

NB-03927 WILSON, DONALD M., Univ. California, Berkeley, Cal.
limbs movement; insects; nervous system..efferent nerves; nervous system..afferent nerves; ganglion, nervous system; muscle; electrodes..microelectrodes; neuromuscular system; electrophysiology

NB-03970 COHEN, MORTON I., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
respiratory system reflexes..respiratory periodicity; cyclic functions; nerves..neurons; single cell analysis; electrophysiology; carbon dioxide tension; pulmonary function; electrostimulus; brain :brain stem; electrodes..microelectrodes; computer analysis

NB-03971 BOYARSKY, LOUIS L., Univ. Kentucky Med. Cr., Lexington, Ky.
neurohormones; nerve impulse transmission; nerve impulse inhibition; brain; radiolabeled carbon; age

NB-04007 GRANT, RONALD, Sch. Med., Stanford Univ., Stanford, Cal.
brain..hypothalamus; brain..regulatory centers; brain mapping; electrodes..microelectrodes; electrophysiology; fever; pyrogens; thermoregulation

NB-04083 HOEFER, PAUL F.A., Col. Phys., Surg., Columbia Univ., New York, N.Y.
muscle..skeletal muscle; potentials..action potentials; instrumentation-methodology; nerves..denervation; muscular dystrophy; myositis; myasthenia gravis; myotonia congenita; diagnostic tests; electrodes.. microelectrodes

NB-04121 HALPERN, BRUCE P., Upstate Med. Cr., State Univ. New York, Albany, N.Y.
brain..medulla oblongata; brain mapping; potentials; taste

NB-04189 STEINBERGER, WILLIAM W., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
electrostimulus; muscle; muscle tension; nerves.. denervation; paralysis; therapy

NB-04254 HAMPTON, JOHN K., Jr., Sch. Med., Tulane Univ., New Orleans, La.
primates..marmoset; hunger; electrostimulus; brain.. hypothalamus; blood sugar; insulin; D--glucose

NB-04261 WARD, JAMES W., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
brain..cerebellum; electrophysiology; brain mapping; nervous system..sympathetic nervous system; nervous system..vestibular nerve; taste; nervous system..trigeminal nerve; convulsions; electroshock; brain.. cerebrum; cerebellectomy; primates..squirrel monkeys

NB-04262 SANDOW, ALEXANDER, Inst. Muscle Disease, Inc., New York, N.Y.
ions; muscle contraction; neuromuscular transmission; zinc; calcium; magnesium; electrophysiology; membrane permeability and transport; fatigue; muscular dystrophy; radioisotopes..uranium; nerves..denervation; potentials.. action potentials

NB-04372 CASE, JAMES F., Sch. Liberal Arts, Univ. California, Santa Barbara, Cal.
nervous system..central nervous system; sensory mechanisms; respiration; electrophysiology; luminescence ..bioluminescence; chemoreceptors

NB-04391 MACHNE, XENIA, Sch. Med., Tulane Univ., New Orleans, La.
nerves..neurons; potentials..membrane potentials; single cell analysis; calcium

NB-04405 WERMAN, ROBERT, Sch. Med., Indiana Univ., Indianapolis, Indiana
spinal cord; nerve impulse transmission; electrophysiology; drugs; single cell analysis

NB-04409 WINEGRAD, SAUL, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
calcium; cell components; muscle..skeletal muscle; muscle contraction; radiolabeled calcium

NB-04450 GLADFELTER, WILBERT E., Sch. Med., West Virginia U., Morgantown, W. Va.
brain..hypothalamus; brain lesions; behavior; limbs movement; ACTH; gonadotropins; pituitary gland

NB-04462 PARTRIDGE, LLOYD D., Sch. Basic Med. Sci., Univ. Tennessee, Memphis, Tenn.
neuromuscular system; muscle stretch reflex; electrostimulus; brain..cerebellum; computer analysis; mathematical models; muscle; response

NB-04476 DENNEY, DONALD D., Univ. Oregon Med. Sch., Portland, Ore.
direct cortical response; threshold; electrostimulus; nervous system..afferent nerves; brain..cerebral cortex; nerves..denervation

NB-04516 RAWSON, ROBERT O., John B., Pierce Fdn. of Conn., New Haven, Conn.
paraplegia; thermoregulation; basal metabolism; blood vessels vasomotion; body water loss; temperature; instrumentation; electronic recording

NB-04531 ADKINS, GALEN H., Cambridge State Sch., Hosp., Cambridge, Minn.
diurnal variation; body temperature; 17-hydroxycorticosteroids; adrenal glands; corticosterone; nervous system disorders; epilepsy; centrally acting drugs; menstrual cycle

NB-04587 KING, JAMES R., Washington State Univ., Pullman, Wash.
neuroendocrine systems; photoperiodism; brain..hypothalamus; pituitary gland; obesity; lipids; radiolabeled carbon; glycogen; muscle; fasting; behavior; brain lesions; oxidoreductases..glucose-6-phosphate dehydrogenase; oxidoreductases..lactate dehydrogenase; phosphomonoesterases..fructose 1,6-diphosphatase; isomerases.. phosphohexose isomerases; hormones

NB-04588 MENDELSON, MARTIN, New York Univ. Med. Cr., New York, N.Y.
respiratory system; muscle contraction; nerves.. innervation; nervous system..central nervous system; single cell analysis; electrophysiology; neuromuscular transmission

NB-04601 ADELMAN, WILLIAM J., Jr., Sch. Med., Univ. Maryland, Baltimore, Md.
nerves..axons; perfusion; ion; potentials..membrane potentials; sodium; electrical conductance; potassium; nerve impulse transmission; adenosine triphosphate; phosphocreatine

NB-04687 BARDACH, JOHN E., Sch. Natural Resources, Univ. Michigan, Ann Arbor, Mich.
skin; chemoreceptors; mechanoreceptors; thermoreception; nerves..innervation; electrophysiology; conditioning; behavior; ecology, animal; phylogeny

NB-04718 PLUM, FRED, Col. Med., Cornell Univ., N.Y.C.
respiration; brain..prosencephalon; brain..respiratory center; potentials; single cell analysis; carbon dioxide tension; oxygen tension; diaphragm; anesthesia; decerebration

NB-04719 PLUM, FRED, Sch. Med., Cornell Univ., New York, N.Y.
brain..prosencephalon; respiration; brain..regulatory centers; anesthesia; apnea; brain..respiratory center; brain mapping; hyperpnea; brain damage; brain lesions

NB-04727 KONISHI, JIHEI, Mie Prefectural Univ., Tsu, Mie Prefecture, Japan
chemoreceptors; ecology (animal); marine biology; nerve impulse initiation; nerve impulse transmission; nervous system..facial nerve; sensory mechanisms; single cell analysis; taste

NB-04734 GOULD, EDWIN, Sch. Hygiene, Publ. Hlth., John Hopkins Univ., Baltimore, Md.
cyclic functions; homing; kinesthesis

NB-04768 MYERS, THEODORE B., Ohio State Univ. Hlth. Cr., Columbus, Ohio
respiration; nervous system; electrophysiology; muscle; ion; reflex

NB-04771 BOYD, WILLIAM H., New York Med. Col., N.Y.C.
electrodes; electromyography; implants; muscle.. respiratory muscles; pulmonary ventilation

NB-04874 VAN DER KLOOT, WILLIAM G., Sch. Med., New York Univ., New York, N.Y.
adenosine triphosphate; heart..myocardium; ion exchange; membrane permeability; muscle contraction; neurohormones; neuromuscular transmission; oxidative phosphorylation; potentials..action potentials; radiolabeled carbon; radiolabeled phosphorus

NB-04932 HERMANN, HOWARD T., McLean Hosp., Belmont, Mass.
photoreceptors; nerves..motor neurons; photostimulus; nerve impulse transmission; noise; reflex; communication theory; brain; single cell analysis; behavior; electrophysiology

NB-04989 MELLON, DeFOREST, Jr., Grad. Sch. Arts, Sci., Univ. Virginia, Charlottesville, Va.
nerve impulse facilitation; nerve impulse inhibition; nerves..interneurons; nervous system..afferent nerves; ganglion, nervous system; potentials..evoked potentials; sensory mechanisms

NB-05043 GAINER, HAROLD, Grad. Sch., Univ. Maryland, College Park, Md.
muscle..myofibrils; muscle tension; ion exchange and transport; potentials..membrane potentials; electrostimulus; muscle contraction; neuromuscular transmission; procaine hydrochloride; serotonin; picrotoxin; gamma--aminobutyric acid; single cell analysis; swim bladder; water--electrolyte balance

NB-05086 BOETTIGER, EDWARD G., Col. Liberal Arts, Sci., Univ. Connecticut, Storrs, Conn.
muscles..myofibrils; muscle tension; muscle contraction; neuromuscular transmission; nerves..innervation; single cell analysis; instrumentation--methodology; electrostimulus; electrophysiology

(contd)

PHYSIOLOGY (CONTD)

NB-05125 **BURGER, RAY E., Col. Agr., Univ. California, Davis, Cal.**
chemoreceptors; pulmonary circulation; pulmonary ventilation; respiratory system reflexes.. respiratory periodicity; gas tensions; exercise; homeostasis

NB-05179 **KOBLICK, DANIEL C., Illinois Inst. Technology, Chicago, Ill.**
radiolabeled sodium; radiolabeled potassium; potentials membrane potentials; ion exchange; muscle; radiolabeled chlorine; electrodes..microelectrodes

NB-05188 **DIECKE, FRIEDRICH P.J., Col. Med., State Univ. Iowa, Iowa City, Iowa**
nerves; ion exchange and transport; nerve impulse transmission; membrane permeability and transport

NB-05205 **WELCH, KEASLEY, Univ. Colorado Med. Cr., Denver, Colo.**
meninges..choroid plexus; membrane permeability and transport; blood flow; oxygen consumption; potentials..membrane potentials; sodium chloride; water; urea; creatinine; mannitol; sucrose; osmotic pressure; blood--cerebrospinal fluid barrier; radiolabeled carbon; tritium

NB-05235 **DEL CASTILLO, JOSE, Sch. Med., Univ. Puerto Rico, San Juan, P.R.**
neuromuscular system; electrophysiology; parasitic diseases; anthelmintics

NB-05243 **GOETSCH, DENNIS D., Sch. Vet. Med., Oklahoma State Univ., Stillwater, Okla.**
blood--brain barrier; oxygen consumption; metabolites; glucose; lactates; fatty acids; fasting; venous infusions; brain

NB-05251 **MASTERTON, R. BRUCE, Vanderbilt Univ., Nashville, Tenn.**
brain..sensory cortex; brain..visual tectum; brain mapping; behavior; sensory mechanisms; phylogeny; primates; brain lesions; electrophysiology

NB-05301 **ECKERT, ROGER, Col. Liberal Arts, Syracuse Univ., Syracuse, N.Y.**
ganglion, nervous system; nerves..neurons; nerves synaptic vesicles; cell types; membrane permeability and transport; nerve impulse transmission; potentials ..membrane potentials; annelids

NB-05328 **HOCKMAN, CHARLES H., Med. Col. Virginia, Richmond, Va.**
brain..hypothalamus; brain..regulatory centers; feeding behavior; hunger; glucose; injections; motivation; implants; primates..squirrel monkeys

NB-05394 **TEITELBAUM, PHILIP, Grad. Sch. Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.**
hibernation; brain; reaction sites; temperature; nutrition; obesity; body temperature

NB-05423 **LARIMER, JAMES L., Grad. Sch., Univ. Texas, Austin, Tex.**
crustaceans; RHR reflex; pericardial organ; carbon dioxide; potentials..evoked potentials; heart; perfusion; ganglion, nervous system; chemoreceptors; carbohydrates; hemocyanin; oxygenation; calcium

NB-05457 **AGIN, DANIEL P., Univ. Chicago, Chicago, Ill.**
electrical fields; membrane models; membrane.. prosthetic membranes; phospholipids; lipoproteins; surface active agents; ions; membrane permeability and transport; nerve impulse transmission; neurotropic drugs

NB-05508 **BROOKS, VERNON B., New York Med. Col., New York City, New York**
single cell analysis; brain, cerebral pyramidal cells; electrodes..microelectrodes; brain..cerebral cortex; somesthesis; kinesthesis; anesthesia

NB-05626 **USHERWOOD, PETER N., Univ. Glasgow, Glasgow, Scotland**
electrophysiology; nerve impulse inhibition; neuromuscular transmission; nervous system..peripheral nerves; muscles..myofibrils; electrostimulus; nerves.. denervation; reaction sites; phylogeny; gamma--aminobutyric acid; picrotoxin; tryptamine

NB-05667 **HUNT, CARLTON C., Sch. Med., Yale Univ., New Haven, Conn.**
nerves..neurons; ganglion, nervous system..sympathetic ganglia; electrophysiology; single cell analysis; antidromic stimulation; orthodromic stimulation; nerves degeneration..Wallerian degeneration; nerve impulse transmission; nerves..synapse; cell components..cell membrane; magnetic recording system

NB-05701 **JEWETT, DON L., Univ. California Med. Cr., San Francisco, Cal.**
brain..corpus callosum; interhemispheric transfer; brain mapping; learning; nerve impulse inhibition; spreading depression; conditioning..operant conditioning; potentials..evoked potentials; implants

NB-05803 **RITCHIE, JOSEPH M., Albert Einstein Col. Med., Bronx, N.Y.**
ion exchange and transport; nerves..neurofibrils; embryology; cell components..cell nucleus; cell differentiation; enzymes; psychotropic drugs; brain; nerve impulse transmission; potentials..action potentials; thermodynamics; radiolabeled sodium; radiolabeled potassium; radiolabeled calcium; acetylcholine; quaternary ammonium compounds; barium

NB-05813 **ROSENTHAL, FRED, New York Med. Col., New York, N.Y.**
brain..cerebral pyramidal cells; brain mapping; electrostimulus; electrical fields; potentials.. spike potential; biological models; biomathematics

NB-05846 **MULLINS, LORIN J., Sch. Med., Univ. Maryland, Baltimore, Md.**
ion exchange; nerves..axon; potassium; potentials.. membrane potentials; muscle; sodium; membrane permeability

NB-05879 **MARTIN, OA. ROBERT, Col. Med., Univ. Utah, Salt Lake City, Utah**
nerve endings; nerves..synapses; nerve impulse transmission; ganglion, nervous system..ciliary ganglion; sodium; ions; acetylcholine; single cell analysis; potentials

NB-05894 **SWANSON, AUGUST G., Sch. Med., Univ. Washington, Seattle, Wash.**
brain; cerebrospinal fluid; buffers; electrolytes; bicarbonates; acidosis; monitoring; instrumentation--methodology; carbon dioxide tension; radiolabeled carbon; pulmonary ventilation; brain..reticular formation; electrophysiology

NB-05931 **SMALLEY, KATHERINE N., Kansas State Teachers Col., Emporia, Kans.**
neuroeffectors; nerve impulse transmission; neuroneuromuscular junction; nerves..synaptic vesicle; reaction sites; luminescence..bioluminescence; sympathomimetic agents; sympatholytic agents

NB-05953 **BARBER, SAUL B., Lehigh Univ., Bethlehem, Pa.**
sensory mechanisms; proprioceptors; muscles.. myofibrils; nerves..neurons; neuromuscular system; single cell analysis; potentials..action potentials; muscle tension; phylogeny; flying (animal)

NB-06009 **PASSANO, LEONARD M., Univ. Wisconsin, Madison, Wis.**
nerve impulse transmission; nerves..neurogenesis; nervous system; phylogeny; electrostimulus; photostimulus; rhythm

NB-06054 **JOSEPHSON, ROBERT K., Col. Lib. Arts, Univ. Minnesota, Minneapolis, Minn.**
coelenterates; potentials..slow potentials; nervous system; phylogeny

NB-06242 **ADELMAN, WILLIAM J., Jr., Sch. Med., Univ. Maryland, Baltimore, Md.**
conferences..international meetings; biophysics; membrane; physiology; travel; geographical sites.. United States

OH-00057 **ALTSHULER, BERNARD, New York Univ. Med. Cr., New York, N.Y.**
aerosols; pulmonary function; lung; air pollution; lung disease; pulmonary ventilation

OH-00110 **ALBERT, ROY E., New York Univ. Med. Cr., New York, N.Y.**
occupational hazards; air pollution; dust; radiolabeled; respiratory system

OH-00155 **HACKNEY, JACK D., Rancho Los Amigos Hosp., Downey, Cal.**
pulmonary function; surface properties; lung..alveolus; lung volume; hyperoxia; pulmonary ventilation; oxygen; carbon dioxide

WP-00493 **PRITCHARD, AUSTIN W., Oregon State Univ., Corvallis, Ore.**
hypoxia; water pollution; inland fresh waters; basal metabolism; oxygen tension; hematopoiesis..erythropoiesis; acclimatization; tissue respiration

WP-00493 **PRITCHARD, AUSTIN W., Oregon State Univ., Corvallis, Ore.**
hypoxia; water pollution; inland fresh waters; basal metabolism; oxygen tension; hematopoiesis..erythropoiesis; acclimatization; tissue respiration

PRIMATE RESEARCH

AI-04072 **EITZMAN, DONALD V., Col. Med., Univ. Florida, Gainesville, Fla.**
immunology..antibodies; primates..chimpanzees; bovine serum albumin; infant animals..newborn; vaccines.. Salmonella vaccines; thymectomy; primates..marmoset; primates..Macaca mulatta; colostrum

AM-08764 **LA SALLE, MARJORIE, Oregon Regional Primate Res. Cr., Beaverton, Ore.**
primates..Macaca mulatta; primates..Cynopithecus niger; blood groups; blood cells..erythrocytes; immunology..antigen--antibody reactions; immunology.. isoantigens; phylogeny; immune sera

DE-01699 **LEVY, BARNET M., Sch. Dent., Univ. Texas, Houston, Tex.**
aging; animal facilities; ascorbic acid; cyclic functions; dental diseases..periodontal disease; dental structure.. gingiva; dietary deficiency; epizootiology; primates.. marmoset

DE-02231 **SWINDLER, DARIS R., Col. Human Med., Michigan State Univ., East Lansing, Mich.**
anatomy; dental structure..teeth; primates; genetics; paleontology

FR-00155 **FOSHEE, DONALD P., Univ. Mississippi Med. Cr., Jackson, Miss.**
primate centers; primates..Macaca mulatta; laboratory facilities

FR-00163 BAIRD, D.W.E., Sch. Med., Univ. Oregon, Portland, Ore.
primate centers; medical research; training; embryology; immunology; anthropology; nutrition; psychology; physiology; biochemistry; cell biology; radiation effects; neuromuscular disorders; cardiovascular diseases; cancer; congenital abnormalities; mental disorders

FR-00165 MYERS, ORIE E., Jr., Sch. Med., Emory Univ., Atlanta, Ga.
primate centers; information exchange; physiology; psychology; anthropology

FR-00166 THIEME, FREDERICK P., Univ. Washington, Seattle, Wash.
primate centers; learning; brain lesions; nervous system.. central nervous system; cardiovascular system; maternal behavior; bone marrow; trachoma, ocular; heart function; lipids; infant animals; brain; computer; instrumentation; reaction time; primates

FR-00168 BERRY, GEORGE P., Sch. Med., Harvard Univ., Boston, Mass.
primate centers; bacteriology; physiology; nutrition; endocrinology; psychology; neurophysiology; reproductive system; metabolic diseases; leukemia..lymphocytic leukemia; radiation effects; ophthalmology; anatomy; pharmacology; cardiovascular diseases; cerebrospinal fluid; hypothermia; neoplasms; kidney function; cerebrovascular system; brain lesions; bone disorders; arthritis; collagen diseases; dermatology; obesity

FR-00169 MRAK, EMIL M., Univ. California, Davis, Cal.
primate centers; primates; infectious diseases; laboratory facilities; nutrition; reproduction; genetics; diagnostic tests; veterinary medicine; taxonomy; parasites; neoplasms

FR-00175 BERRY, GEORGE P., Sch. Med., Harvard Univ., Boston, Mass.
animal facilities; primates; bacteriology; physiology; nutrition; endocrinology; psychology; neurophysiology; reproductive system; metabolic diseases; leukemia.. lymphocytic leukemia; radiation effects; ophthalmology; anatomy; pharmacology; cardiovascular diseases; cerebrospinal fluid; hypothermia; neoplasms; kidney; cerebrovascular system; brain lesions; bone disorders; arthritis; collagen diseases; dermatology; obesity

FR-00176 MRAK, EMIL M., Univ. California, Davis, Cal.
animal facilities; primates; infectious diseases; laboratory facilities; nutrition; reproduction; genetics; diagnostic tests

FR-00180 CLARKSON, THOMAS B., Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.
primate centers; primates..squirrel monkeys; atherosclerosis; age; cholesterol; stress; uterus neoplasms.. cervix neoplasms; vitamin A; estrogens; methylcholanthrene; nerves, neurons; ganglion, nervous system, autonomic ganglia; endotoxins; shock; peripheral vascular resistance; membrane permeability and transport; kidney, renal cortex; drugs; brain, subcortical structures; potentials, evoked potentials; sleep

GM-03774 RUCH, THEODORE C., Univ. Washington, Seattle, Wash.
publications..handbook; primates; publications..literature survey

GM-10593 VAN WAGENEN, G., Sch. Med., Yale Univ., New Haven, Conn.
primates..Macaca mulatta; gonads; publications, atlas; pregnancy, perinatal; adults

GM-10634 GOODMAN, MORRIS, Col. Med., Wayne State Univ., Detroit, Mich.
taxonomy; primates; immunology..antigens; phylogeny; brain; eye; blood proteins..plasma proteins; hemoglobin; species; proteins

HD-00130 WERTHESSEN, NICHOLAS T., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
primates..baboons; animal facilities; reproduction; reproductive system (female); menstrual cycle; pregnancy

HD-00407 JONES, MALCOLM D., Univ. California, Med. Cr., San Francisco, Cal.
aging; bone, spine; intervertebral disks; scoliosis; nucleus pulposus; primates..gibbons; bone density; radiolabeled sulfur; radiography

HD-00450 ASHTON, ERIC H., Univ. Birmingham, Birmingham, England
primates; muscle..skeletal muscle; bone; bone stress; limbs movement; posture; phylogeny; nerves..denervation; electrostimulus; optical rotation

HD-00474 BASHORE, RICHARD A., Sch. Med., Univ. California, Los Angeles, Cal.
animal facilities; pregnancy..amniotic fluid; hypophysectomy; fetus; primates..Macaca mulatta; surgery; thyroid gland

HD-00840 ROSENBLUM, LEONARD A., Downstate Med. Cr., State Univ New York, Brooklyn, N.Y.
fertility; primates, squirrel monkeys; breeding cycles; reproductive system, male; reproductive system, female; vaginal smears; sex hormones; spermatozoa motility; social behavior; social space; laboratory animals

HD-01338 PICKERING, DONALD E., Sch. Arts, Sci., Univ. Nevada, Reno, Nev.
bone; primates..Macaca mulatta; genetics; growth; aging; thyroid function; animal facilities

HD-01339 PICKERING, DONALD E., Col. Arts, Sci., Univ. Nevada, Reno, Nev.
growth; primates..monkeys; skeleton; fetus; radiolabeled calcium; radiolabeled strontium; pregnancy.. placental transfer; radiolabeled phosphorus; maternal-fetal; vitamin D; calcium; strontium; thyroid gland

HE-03834 VAGTBORG, HAROLD, Southwest Fdn. Res., San Antonio, Tex.
animal facilities; genetic strains; genetics..hybrids; primates..baboons

HE-05209 KRITCHEVSKY, DAVID, Wistar Inst., Philadelphia, Pa.
diet; fatty acids; lipids..serum lipids; liver; arteries.. aorta; primates, baboons; cholesterol; lipids; atherogenesis

HE-05306 TURNER, THOMAS B., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
animal facilities; primates

HE-05691 BOURNE, GEOFFREY H., Emory Univ., Atlanta, Ga.
primates..chimpanzees; psychology; cooperative study; immunology; physiology; nutrition; cardiovascular system

HE-06379 MORELAND, ALVIN F., Sch. Med., Univ. Florida, Gainesville, Fla.
animal facilities; primates; neuropsychology; neurophysiology; immunology; pregnancy; growth

HE-06578 HAMPTON, JOHN K., Jr., Sch. Med., Tulane Univ., New Orleans, La.
breeding cycles; blood groups; laboratory animals; primates..marmoset

HE-09217 VAN CITTERS, ROBERT L., Sch. Med., Univ. Washington, Seattle, Wash.
blood flow; arteries..aorta; cardiovascular system; heart function; instrumentation--methodology; emotional reactions; social behavior; implants; primates..baboons; telemetering

MH-05137 ANDREW, RICHARD J., Yale Univ., New Haven, Conn.
arousal; facial expression; motivation; phylogeny; primates; socioenvironment; testosterone; vocalization

MH-07136 SCHRIER, ALLAN M., Grad. Sch., Brown Univ., Providence, R.I.
primates..monkeys; behavior; psychophysics; psychophysiology; information exchange; visual perception; conditioning..operant conditioning; rewards and nonrewards; feeding behavior; discrimination; learning; taste; smell; electrophysiology; brain lesions; child development; infant human; infant animals

MH-07147 DAVIS, ROGER T., Col. Arts, Sci., State Univ. South Dakota, Vermillion, S.D.
primates..Macaca mulatta; spatial perception; cues; discrimination; form perception; movement perception; conditioning; learning

MH-08623 WASHBURN, SHERWOOD L., Univ. California, Berkeley, Cal.
social behavior; social organization; primates..Macaca irus; primates..gibbons; vocalization; body movement; sex difference; posture

MH-10002 MICHAEL, RICHARD P., Maudsley Hosp., London, England
neuroendocrine systems; sex behavior; primates.. monkeys; brain; reaction sites; estrogens; implants; tritium; radiolabeled carbon; electrophysiology

MH-10581 HILL, CHARLES W., Delta Regional Primate Res. Cr., Tulane Univ., Covington, La.
learning..reversal learning; discrimination; problem solving; primates..Macaca

MH-11425 MENZEL, EMIL W., Jr., Delta Regional Primate Res. Cr., Tulane Univ., Covington, La.
behavior; primates..chimpanzees; emotional reactions; stimulus; habituation; movement perception; reinforcement; conditioning..avoidance

NB-02372 CLIFFORD, STEWART H., Boston Lying-in Hosp., Boston, Mass.
cerebral palsy; cooperative study; mental retardation; nervous system disorders; neuropsychological tests; pregnancy..perinatal; sensory disorders

NB-04393 MASSOPUST, LEO C., Psychiatric Res. Fdn., Cleveland, Ohio
electroretinography; eye..fundus oculi; eye..retinal; primates; visual pigments eye

NB-04521 WOODBURNE, LLOYD, Grad. Sch., Univ. Washington, Seattle, Wash.
primates..squirrel monkeys; vision tests; discrimination; visual perception; brain..visual cortex; brain mapping; neuropsychological tests

NB-04934 FOSHEE, DONALD P., Univ. Mississippi Med. Cr., Jackson, Miss.
behavior; brain damage; brain lesions; brain mapping; brain..subcortical structures; infants (animals)..newborn; learning; longitudinal study; primates..Macaca mulatta

NB-05413 SINDBERG, RONALD M., Central Wisconsin Colony and Training Sch., Madison, Wis.
brain damage; brain lesions; psychophysiology; psychological tests; performance; learning; primates..squirrel monkeys

NB-05414 FERRER, NATHANIEL G., Col. Med., Univ. Philippines, Manila, Philippines
brain mapping; brain lesions; brain..claustrum; nerves..neurons; nerves degeneration; primates, lemurs

PSYCHOPHARMACOLOGY

AM-05408 EHRENTHEIL, OTTO F., Veterans Admin. Hosp., Boston, Mass.
emotional reactions; diabetes; stress; glycosuria

AM-09275 KHURI, RAJA N., Sch. Med., American Univ., Beirut, Lebanon
kidney function; water--electrolyte balance; homeostasis; body water; seasonal variation; hypophysectomy; adrenalectomy; vasopressin; steroid hormones; diet; carbohydrases..hyaluronidase; geographical sites..Asia; micropuncture; kidney.. renal medulla; kidney..renal cortex

(contd)

LISTING OF GENERAL RESEARCH AREAS

AM-09360 HIRSCH, JULES, Rockefeller Inst., New York, N.Y.
obesity; adipose tissue; feeding behavior; behavioral adjustment; stress; behavior rating scales; galvanic skin response; hyperplasia; computer analysis; cooperative study

AP-00305 BACHMAN, CHARLES H., Grad. Sch., Syracuse Univ., Syracuse, N.Y.
atmosphere; behavior; criteria; drugs; gases; ion

GM-12062 MURGATROYD, DOROTHY, John B. Pierce Fdn. Lab., New Haven, Conn.
brain..hypothalamus; thermoreception; somesthesis; behavior; response; reaction sites; temperature; heat; cold; environment

HD-00351 PARMELEE, ARTHUR H., Jr., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
sleep; arousal; infant human..premature infant; audio-stimulus; child development; electronic recording; electroencephalography; eye movement; body temperature; electromyography; respiration

HD-00353 HALL, W. KNOWLTON, Med. Col. Georgia, Augusta, Ga.
mental retardation; metabolic diseases; children; genetics

HD-00801 CLAYTON, RAYMOND B., Sch. Med., Stanford Univ., Stanford, Cal.
sex hormones; infant animals..newborn; adults; sex behavior; experience; handling; emotional reactions; adrenal cortex hormones; brain; reaction sites; adrenal glands; liver; gonadectomy; tritium radio-labeled carbon; radiolabeled phosphorus; steroid hormones; steroids

HD-01058 YUWILER, ARTHUR, UCLA Center for Health Sciences, Los Angeles, Cal.
mental retardation; metabolic diseases inborn; biological models; phenylketonuria; phenylalanine; diet; behavior; brain; reaction sites; serotonin; blood--brain barrier; 5--hydroxytryptophan; DOPA; pyridoxine; nicotinamide; alpha--methyl DOPA; reserpine; catecholamines; amino acids; infant animals; pregnancy

HD-01284 SCHAEFER, THEODORE, Jr., Scientific Engineering Inst., Waltham, Mass.
infant animals..newborn; handling; adrenal glands; behavior; stress; ascorbic acid; growth; temperature

HD-01396 ANDERSON, V. ELVING, Grad. Sch., Univ. Minnesota, Minneapolis, Minn.
metabolic diseases inborn; phenylketonuria; diet; therapy evaluation; behavior; psychometrics; psychomotor function; children; siblings

HD-01460 KNAPP, DONALD E., Col. Med., Univ. Kentucky, Lexington, Ky.
tranquilizers; electroencephalography; arousal; drugs interaction; muscarine; epinephrine; epinephrine; nicotine; serotonin; histamine; brain stem transection

HD-01823 McKEAN, CHARLES M., Sonoma State Hosp., Eldridge, Cal.
amino acid excess; metabolic diseases, inborn; mental retardation; congenital abnormalities; enzymes inhibitors; blood--brain barrier; brain; lipids; thyroxine; kidney function; radiolabeled

MH-00987 BEECHER, HENRY K., Massachusetts Gen. Hosp., Boston, Mass.
amphetamine; anthropometry; diacetylmorphine; morphine; personality; psychotomimetic drugs; secobarbital sodium

MH-01121 GOLDSTONE, SANFORD, Col. Med., Baylor Univ., Houston, Texas
subjective time; judgment; sensory mechanisms; psychophysics; schizophrenia; depression; hyperthyroidism; hyperthermia; psychotropic drugs

MH-01225 JARVIK, MURRAY E., Albert Einstein Sch. Med., Yeshiva Univ., New York, N.Y.
primates..Macaca mulatta; learning; discrimination; stimulants; depressants; brain lesions; psychometrics; response; memory-retention

MH-01434 SMITH, ALFRED A., New York Univ. Med. Cr., New York, N.Y.
narcotics; morphine analogs; catecholamines; nervous system..autonomic nervous system; analgesia; eye.. lens opacity; blood--brain barrier; blood--aqueous barrier; drugs tolerance; drugs hypersensitivity; dysautonomia familial; drugs addiction; sympathomimetic agents; sympatholytic agents; morphine

MH-01475 MALMO, ROBERT B., Sch. Med., McGill Univ., Montreal, Canada
rewards and nonrewards; nervous system..central nervous system; nervous system..autonomic nervous system; electrophysiology; heart rate; psychophysiology; pain; behavior; children; conditioning

MH-01604 GOLLUB, LEWIS R., Col. Arts, Sci., Univ. Maryland, College Park, Md.
behavior; computer programming; conditioning; perception; primates..monkeys; psychotropic drugs

MH-01775 FULLER, JOHN L., Roscoe B. Jackson Mem. Lab., Bar Harbor, Me.
psychotropic drugs; isolation; chlorpromazine; genetic strains; alcoholic beverages; emotional reactions; conditioning..avoidance; infant animals; age; exploratory behavior; experience; behavior; social behavior; learning

MH-01981 KLUVER, HEINRICH, Univ. Chicago, Chicago, Ill.
behavior; blood-brain barrier; brain..limbic system; brain disorders; endocrine glands disorders; mental disorders; porphyrins; primates; staining

MH-01983 ENGLEHARDT, DAVID M., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
longitudinal study; hospitals outpatients; chemotherapy; chlorpromazine; promazine; social adjustment; family; personality; socioenvironment; schizophrenia

MH-02094 DEWS, PETER B., Harvard Univ., Cambridge, Mass.
conditioning..operant conditioning; reinforcement; psychotropic drugs; behavior; vocalization; species; motivation; response; morphine; neurohormones; chlorpromazine; d-deoxyephedrine; scopolamine

MH-02211 KOELLA, WERNER P., Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
brain..cerebral cortex; globulins..serum globulin; nervous system..pyramidal tracts; potentials; psychotomimetic drugs; schizophrenia; serotonin; spinal reflex

MH-02262 KRUS, DONALD M., Grad. Sch., Clark Univ., Worcester, Mass.
LSD; behavior; perception; concept; schizophrenia; steroids; aging; psychotropic drugs; therapy evaluation

MH-02583 EISENBERG, LEON, Johns Hopkins Hosp., Baltimore, Md.
children; learning; intelligence; concept; emotional disturbance; attention; d--amphetamine; ritalin; hyperkinesis; consultation; psychotherapy; neuroses; psychometrics; questionnaire; diagnostic tests

MH-02635 SHAGASS, CHARLES, State Univ. Iowa, Iowa City, Iowa
arousal; brain..cerebral cortex; emotional reactions; instrumentation; personality; potentials..action potentials; psychiatric patients; psychotropic drugs

MH-02653 DOMINO, EDWARD F., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
brain..cerebral cortex; brain..rhinencephalon; anesthetics; electrophysiology; reserpine; morphine; chlorpromazine; phenylcyclohexyl piperidine; lysergic acid diethylamide; mescaline; psilocybin; psychotropic drugs

MH-02719 MAY, PHILIP R.A., Camarillo State Hosp., Camarillo, Cal.
schizophrenia; psychotherapy; electroshock; tranquilizers; therapy evaluation; behavioral adjustment

MH-02755 STERN, JOHN A., Sch. Med., Washington Univ., St. Louis, Mo.
learning; conditioning..extinction; psychiatric patients; diagnostic tests; emotional reactions; chemotherapy; psychophysiology; orientation; psychological

MH-02839 OLDS, JAMES, Sch. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
motivation; conditioning; brain..hypothalamus; electrostimulus; behavior; phenothiazine; pentobarbital; meprobamate; phosphates; acid-base equilibrium; neurohormones

MH-02904 NICHOLS, JOHN R., Southeastern Louisiana Col., Hammond, La.
behavior; conditioning..operant conditioning; drugs addiction

MH-02949 MILLER, NEAL E., Yale Univ., New Haven, Conn.
psychotropic drugs; fear; conflict; behavior; psychometrics; stress; enzyme inhibitors; motivation; brain; neurohormones; drugs addiction; reaction sites

MH-02967 HOAGLAND, HUDSON, Worcester Fdn. Exptl. Biology, Shrewsbury, Mass.
behavior; bioassay; blood proteins..plasma proteins; electrophysiology; fractionation; schizophrenia

MH-03029 BUCKLEY, JOSEPH P., Sch. Pharm., Univ. Pittsburgh, Pittsburgh, Pa.
psychotropic drugs; behavior; conditioning..avoidance; discrimination; kava; catecholamines

MH-03031 KLINE, NATHAN S., Rockland State Hosp., Orangeburg, N.Y.
reserpine; perphenazine; phenelzine; chemotherapy; schizophrenia; thyroid gland; testis; pituitary gland; longitudinal study; computer

MH-03033 WHITMAN, ROY M., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
chlorpromazine; conflict; depression; dreams; hypnosis; imipramine; monitoring; psychophysiology; psychotherapy; schizophrenia

MH-03225 APRISON, M.H., Grad. Sch. Med., Indiana Univ., Fdn., Bloomington, Ind.
acetylcholine; behavior; brain; dosage; 5-hydroxytryptophan; norepinephrine; oxidases.. monamine oxidase; serotonin

MH-03238 BINDRA, DALBIR, Grad. Sch., McGill Univ., Montreal, Canada
drive; reinforcement; response; chlorpromazine; Ritalin; drugs; training level; dosage

MH-03241 KILLAM, KEITH F., Jr., Sch. Med., Stanford Univ., Stanford, Cal.
reserpine; chlorpromazine; electroencephalography; conditioning; behavior; electron recording; computer analysis; psychotropic drugs; parasympatholytic agents; habituation

MH-03313 SUMMERFIELD, ARTHUR, Sch. Psych., Pharm., University Col. London, London, England
memory--retention; perception; behavior; personality; performance; centrally acting drugs; stimulants; depressants; drugs interaction; amphetamine; barbiturates; nitrous oxide

MH-03361 GINSBURG, BENSON E., Univ. Chicago, Chicago, Ill.
research programs; behavior; conditioning; brain lesions; genetics..genotypes; brain; nervous system..central nervous system; drugs; endocrine glands

MH-03363 GIARMAN, NICHOLAS J., Sch. Med., Yale Univ., New Haven, Conn.
brain; catecholamines; cell components; conditioning.. operant conditioning; hibernation; psychotropic drugs; serotonin; sleep; stress

MH-03374 KILLAM, KEITH F., Jr., Sch. Med., Stanford Univ., Stanford, Cal.
tranquilizers; stimulants; brain..reticular formation; brain; electrophysiology; conditioning; reaction sites; centrally acting drugs; computer analysis; electroencephalography; dosage; reserpine; chlorpromazine; meprobamate; phenothiazines; hallucinogens; amphetamine; physostigmine; atropine

MH-03648 DINSMOOR, JAMES A., Grad. Sch., Indiana Univ., Bloomington, Ind.
conditioning..avoidance; screening; tranquilizers; primates, squirrel monkeys; electroshock; anxiety

MH-03660 GLUSMAN, MURRAY, New York State Psy. Inst., N.Y.C.
emotional reactions; anger; brain..hypothalamus; brain.. mesencephalon; sensory mechanisms

MH-03663 CLARK, WILLIAM G., Sch. Med., Univ. California, Los Angeles, Cal.
blood cells; brain disorders; chorea; cooperative study; decarboxylases..dopa decarboxylase; decarboxylases..5-hydroxytryptophan decarboxylase; dopamine; histamine; histidine decarboxylase; p-hydroxyphenylethanolamine; mast cells; alpha-methyl dopa; nervous system..central nervous system; nicotine; norepinephrine; Parkinson's diseases; serotonin; sympathomimetic agents

MH-03666 SACKS, WILLIAM, Rockland Hosp., Orangeburg, N.Y.
brain; neurohormones; decarboxylases; radiolabeled carbon; psychiatric patients; electroshock; psychotherapy; chemotherapy; serotonin; gamma-aminobutyric acid; norepinephrine; acetylcholine

MH-03672 GROSS, MARTIN, Springfield St. Hosp., Sykesville, Md.
imipramine; depression; psychiatric patients; behavior rating scales; therapy evaluation; desmethylimipramine

MH-03674 FRIEDMAN, ALFRED S., Philadelphia Psy. Hosp., Philadelphia, Pa.
alertness--vigilance; psychoses; depression; threshold; imipramine; cognition; perception

MH-03775 GARNER, HARRY H., Chicago Med. Sch., Chicago, Ill.
behavior; psychotropic drugs; cerebrospinal fluid; chemoreceptors; brain; reflex

MH-03903 SCOTT, GEORGE T., Sch. Arts, Sci., Oberlin Col., Oberlin, Ohio
psychotropic drugs; tranquilizers; neurosecretion; MSH; stimulants..antidepressants; chromatophores

MH-04137 MONROE, RUSSELL R., Sch. Med., Univ. Maryland, College Park, Md.
psychiatric patients; chloralose; muscle relaxants.. anticonvulsants; gamma--hydroxybutyric acid

MH-04139 STONE, GEORGE C., Langley Porter Neuropsy. Inst., San Francisco, Cal.
computer analysis; conditioning..avoidance; dosage; performance; psychotropic drugs

MH-04229 PFEIFFER, CARL C., New Jersey Neuropsy. Inst., Princeton, N.J.
brain; conditioning..avoidance; electroshock; mental disorders; neurohormones; parasympathomimetic agents; psychotropic drugs

MH-04230 BOYD, EUGENE S., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
cannabinols; thiopental sodium; neural recruitment; arousal; conditioning..operant conditioning; behavior

MH-04234 TUNTURI, ARCHIE R., Sch. Med., Univ. Oregon, Portland, Ore.
brain..auditory cortex; brain mapping; communication; computer analysis; electrodes; electrophysiology; mathematical models; primates..monkeys; psychotropic drugs; speech

MH-04260 CLARK, MERVIN L., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
chlorpromazine; prediction; psychological tests; psychophysiology; schizophrenia

MH-04511 BUCKLEY, JOSEPH P., Sch. Pharm., Univ. Pittsburgh, Pittsburgh, Pa.
stress; psychotropic drugs; blood pressure; conditioning.. avoidance; kidney; adrenal glands; heart; arteries..aorta

MH-04513 HOLMBERG, K. GUNNAR, Stockholm County Central Hosp., Danderyd, Sweden
alcoholism; autonomic agents; depression; emotional reactions; neuroses; polygraphy; psychiatric patients; schizophrenia

MH-04539 ISAAC, WALTER, Grad. Sch., Emory Univ., Atlanta, Ga.
behavior; arousal; brain..reticular formation; electrostimulus; photostimulus; d-amphetamine; phenobarbital; age; rewards and nonrewards; lobectomy; primates..monkeys

MH-04545 GARNER, HARRY H., Chicago Med. Sch., Chicago, Ill.
electroencephalography; instrumentation; age; sleep; stress; mental disorders; psychotropic drugs; imagery; psychophysiology

MH-04586 FRIEND, DALE G., Mass. MH Cr., Boston, Mass.
psychiatric patients; depression; catecholamines; DOPA; chemotherapy; stimulants..antidepressants; emotional reactions

MH-04589 MAY, PHILIP R.A., Sch. Med., Camarillo State Hosp., Camarillo, Cal.
community; employment; family; longitudinal study; performance; psychological tests; schizophrenia; social adjustment; therapy evaluation

MH-04815 OCHS, SIDNEY, Sch. Med., Indiana Univ., Indianapolis, Ind.
interhemispheric transfer; brain..cerebral cortex; brain.. subcortical structures; electrophysiology; spreading depression; direct cortical response; brain..cerebral pyramidal cells; nerves..dendrites; mental processes

MH-04816 FROHMAN, CHARLES E., Lafayette Clinic, Detroit, Mich.
schizophrenia; alpha globulin; blood..serum; carbohydrates; immunology

MH-04824 ROSENBLATT, SEYMOUR, Mt. Sinai Hosp., New York, N.Y.
catecholamines; depression; radiolabeled carbon; tritium; DOPA; phenothiazines; psychotropic drugs; reserpine; steroids; iproniazid; stress; emotional disturbance; mental disorders; psychotherapy; electroshock; psychophysiology; enzyme inhibitors..monoamine oxidase inhibitors

MH-04855 NEWMAN, BERTHA L., Sch. Med., Univ. Southern California, Los Angeles, Cal.
electrostimulus; brain; electroencephalography; potentials ..action potentials; behavior; convulsions

MH-04954 HELLER, ALFRED, Univ. Chicago, Chicago, Ill.
brain lesions; brain..limbic system; serotonin; norepinephrine; barbiturates; neuroendocrine systems; behavior

MH-04956 ORDY, JOSEPH M., Psychiat. Res. Fdn., Cleveland, Ohio
chlorpromazine; pregnancy..placental transfer; infants, animals; emotional reactions; stress; age; conditioning..avoidance; hydrolases; proteases.. peptidases; liver damage; radiolabeled sulfur

MH-04961 WEITZMAN, ELLIOT D., Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
pain toerance; conditioning..operant conditioning; electrostimulus; behavior; brain lesions; psychotropic drugs; electrophysiology; nervous system..central nervous system; primates..monkeys; stimulus; threshold

MH-05173 ADLER, MARTIN W., Sch. Med., Temple Univ., Philadelphia, Pa.
brain lesions; centrally acting drugs

MH-05201 GOLDMAN-EISLER, FRIEDA, Univ. London, London, England
speech; respiration; cognition; emotional reactions; tranquilizers; centrally acting drugs; psychomimetic drugs; semantics..grammar

MH-05233 BLUMBERG, ARNOLD G., Hillside Hosp., Glen Oaks, N.Y.
thyroid function; psychotropic drugs; psychiatric patients; behavior; psychophysiology

MH-05319 JARVIK, MURRAY E., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
anesthesia; brain lesions; centrally acting drugs; learning; memory-retention

MH-05320 SEEVERS, MAURICE H., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
drugs addiction; alcoholism; narcotics; barbiturates; amphetamine; cannabis; cocaine; conditioning..operant conditioning; primates..monkeys

MH-05324 HUDSON, ROY D., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
electrophysiology; muscle tone; nervous system..extrapyramidal tracts; nervous system..pyramidal tracts; phenothiazine; spinal cord

MH-05326 QUASTEL, J. HIRSCH, McGill-Montreal Gen. Hosp., Montreal, Canada
adenosine phosphates; amino acid; blood-brain barrier; brain; centrally acting drugs; drugs tolerance; enzymes inhibitors..decarboxylases inhibitors; glucose; 5-hydroxyindole acetic acid; 5-hydroxytryptophan; radiolabeled carbon; radiolabeled phosphorus; serotonin

MH-05333 BREBBIA, D. ROBERT, Rockland State Hosp., Orangeburg, N.Y.
schizophrenia; metabolic diseases; diurnal variation; sleep; dreams

MH-05408 SIDMAN, MURRAY, Mass. Gen. Hosp., Boston, Mass.
auditory threshold; behavior; brain lesions; centrally acting drugs; conditioning..operant conditioning; dietary deficiency; nervous system..central nervous system; primates; stress; visual threshold; vitamin

MH-05415 SMITH, KATHLEEN, Washington Univ., St. Louis, Mo.
metabolites; odors; schizophrenia; sweat

MH-05439 ROWLAND, VERNON, Sch. Med., Western Reserve Univ., Cleveland, Ohio
conditioning; sympathomimetic agents; potentials..slow potentials; parasympathomimetic agents; potentials; electrophysiology; computer

MH-05440 HADDAD, RAEF K., New Jersey Mental Hlth. Res., Development Fund, Trenton, N.J.
immunology..antigens; schizophrenia; immunological tests; mental disorders; electrophysiology; nervous system.. central nervous system; behavior; immunology..autoantibodies

(contd)

PSYCHOPHARMACOLOGY (CONTD)

MH-05470 JOHNS, VARNER J., Jr., Sch. Med., Loma Linda Univ., Los Angeles, Cal.
blood sugar; catecholamines; cholesterol; emotional reactions; fatty acids; lipids..serum lipids; metabolites; stress

MH-05471 GORDON, MALCOLM W., Institute Living, Hartford, Conn.
behavior; blood-brain barrier; brain; cyclic functions; homeostasis; instrumentation; neurohormones; primates..Macaca mulatta; psychotropic drugs; scintillation counters; semiconduction; stereotaxia

MH-05503 TOMAN, JAMES E.P., Chicago Med. Sch., Chicago, Ill.
behavior; computer; electrodes..microelectrodes; electrophysiology; ganglionic blocking agents; nervous system.. central nervous system; psychotropic drugs

MH-05541 LEEVY, CARROLL M., Seton Hall Col. Med., Jersey City, N.J.
chemotherapy; chlorpromazine; delirium tremens; ditran; ethanol; psychology

MH-05726 GJESSING, LEIV R., Dikemark Sykehus, Asker, Norway
catatonia; longitudinal study; behavior; phenolic acids; phenolic amines; protein-bound iodine; thyroid hormones; neuroblastoma; p-hydroxyphenylethanolamine; neosynephrine

MH-05739 CLARK, LINCOLN D., Col. Med., Univ. Utah, Salt Lake City, Utah
genetics; psychotropic drugs; exploratory behavior; emotional reactions; drive; conditioning..avoidance; conflict; brain lesions; conditioning..operant conditioning; primates..squirrel monkeys; aggression

MH-05755 McCLEARY, ROBERT A., Grad. Sch., Univ. Chicago, Chicago, Ill.
brain lesions; conditioning..avoidance; behavior; brain.. amygdala; interocular transfer; brain..cingulate gyrus; brain..septum pellucidum; brain..subcallosal gyrus; brain..commissures, cerebral (unspecified); brain.. hippocampus; aggression; electroshock

MH-05806 SATTERFIELD, JAMES H., Sch. Med., Washington Univ., St. Louis, Mo.
potentials..evoked potentials; schizophrenia; hysteria; attention; sensory mechanisms; computer programming

MH-05821 ZIMMERMAN, JOSEPH, Indiana Univ. Med. Cr., Indianapolis, Ind.
centrally acting drugs; behavior; conditioning..avoidance

MH-05822 FISHER, ALAN E., Univ. Pittsburgh, Pittsburgh, Pa.
mental disorders; stress; metabolic diseases; psychotomimetic drugs; brain..hypothalamus; primates..monkeys; behavior; diagnostic tests; schizophrenia

MH-05823 COHEN, LEONARD A., Albert Einstein Cr., Philadelphia, Pa.
hallucinogens; LSD; orientation, psychological; environment; primates..monkeys; primates..baboons

MH-05863 CLARK, FOGLE C., Evansville State Hosp., Evansville, Ind.
drugs classification; psychotropic drugs; conditioning ..operant conditioning; barbiturates; amphetamine; phenothiazine; diphenyl methane

MH-05972 WATTS, DANIEL T., West Virginia Univ. Med. Cr., Morgantown, W.Va.
aging; epinephrine; norepinephrine; brain

MH-06044 RAHER, JACK, Psychiatric Inst., Univ. Maryland, Baltimore, Md.
aldosterone; anger; anxiety; depression; emotional reactions; 17-hydroxycorticosteroids; mental disorders

MH-06111 SANDERS, BENJAMIN E., Sch. Med., State Univ. New York, Buffalo, N.Y.
schizophrenia; blood..plasma; blood proteins..serum proteins; blood proteins..plasma proteins; fractionation; electrolytes; cerebrospinal fluid; behavior

MH-06139 RODGERS, DAVID A., Scripps Clinic, Res. Fdn., La Jolla, Cal.
ethanol; genetics; stress; feeding behavior

MH-06140 PERSKY, HAROLD, Albert Einstein Med. Cr., Philadelphia, Pa.
anxiety; pituitary gland; psychosomatic medicine; hypnosis; thyrotropin; ACTH; LH; FSH; thyroxine; estrogens; 17-ketosteroids; hydrocortisone; progesterone; psychological tests

MH-06145 HOLLIDAY, AUDREY R., Sch. Med., Univ. Washington, Seattle, Wash.
pain; ultrasonics; radiation effects; screening

MH-06210 LIBERSON, W.T., Stritch Sch. Med., Loyola Univ., Chicago, Ill.
chlorodiazepoxide; chlorodiazepoxide analogs; reaction time; behavior

MH-06211 MEYER, DONALD R., Grad. Sch., Ohio State Univ. Res. Fdn., Columbus, Ohio
memory-retention; discrimination; d-amphetamine; brain lesions; brain..cerebral cortex

MH-06256 FELDSTEIN, AARON, Worcester Fdn., Shrewsbury, Mass.
stimulants..antidepressants; enzymes inhibitors..monoamine oxidase inhibitors; phenelzine; isocarboxazid; radiolabeled; serotonin; prediction; chemotherapy

MH-06298 TOMAN, JAMES E.P., Chicago Med. Sch., Chicago, Ill.
psychotropic drugs; nerves..axons; nerves..synapse; drugs classification; potentials..membrane potentials

MH-06305 FORREST, IRENE S., Veterans Admin. Hosp., Palo Alto, Cal.
phenothiazine; imipramine; chlorprothixene; chemical structure

MH-06306 WECHSLER, MAGDALENA B., New York State Psychiatric Inst., New York, N.Y.
phenothiazines; stimulants..antidepressants; chlorpromazine; prochlorperazine; thioridazine; imipramine; enzymes; cell components

MH-06343 HARVEY, JOHN A., U. Chicago, Chicago, Ill.
brain lesions; stereotaxia; behavior; barbiturates; stimulants; tranquilizers; neurohormones

MH-06349 RESNICK, OSCAR, Worcester Fdn., Shrewsbury, Mass.
psychotropic drugs; enzymes inhibitors..monoamine oxidase inhibitors; transferases, catechol O-methyl transferase; species; tissue; psychophysiology

MH-06361 GUTMANN, FELEX, Sch. Chem., Univ. New South Wales, Kensington, New South Wales, Australia
chlorpromazine; phenothiazine; serotonin; imipramine; conformations (chemistry); potentials; temperature; psychotropic drugs; chemical structure; free radicals; electrical conductance

MH-06511 YOUNGKEN, HEBER W., JR., Sch. Phar., U. Rhode Island, Kingston, R.I.
alkaloids; cooperative study; glycosides; hallucinogens; hypnotics and sedatives; medicinal plants; psychotropic drugs

MH-06533 NELSON, JOHN W., Col. Phar., Ohio State Univ. Res. Fdn., Columbus, Ohio
analgesics..antipyretics; behavior; chlorpromazine; conditioning..operant conditioning; meprobamate; reserpine; salicylates; thermoregulation; tranquilizers

MH-06564 MITCHELL, CLIFFORD L., Sch. Med., State Univ. Iowa, Iowa City, Iowa
analgesics; brain; chlorpromazine; conditioning..operant conditioning; meprobamate; morphine; pain; pentobarbital; potentials; psychotropic drugs

MH-06583 GOVE, ROGER M., Columbia State Sch., Columbus, Ohio
conditioning..operant conditioning; instrumentation; social behavior; mental retardation; psychiatric patients; reinforcement

MH-06633 HAWKINS, DAVID R., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
sleep; dreams; arousal; depression; psychiatric patients; child development; eye movement; body movement; psychophysiology; enuresis

MH-06635 VANE, JOHN R., Royal College Surgeons, London, England
sympathomimetic agents; tryptamine; conditioning.. operant conditioning; behavior; adrenergic receptors; nervous system, central nervous system

MH-06655 UYENO, EDWARD T., Stanford Res. Inst., Menlo Park, Cal.
social behavior; aggression; LSD; brom--LSD; mescaline; psilocybin

MH-06658 PEREZ-REYES, MARIO, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
galvanic skin reflex inhibition threshold; diagnostic tests; depression; psychoses; neuroses; stress; hypoglycemia; pyrogens; catecholamines; 17--hydroxycorticosteroids; growth hormones

MH-06713 MURPHREE, HENRY B., New Jersey Mental Hlth. Res. and Development Fund, Inc., Skillman, N.J.
electroencephalography; instrumentation-methodology; mental disorders; schizophrenia; epilepsy; psychiatric patients; children; time; psychotropic drugs

MH-06745 SACHAR, EDWARD J., Massachusetts Mental Hlth. Cr., Boston, Mass.
schizophrenia; behavior; endocrine glands; psychophysiology; psychotherapy; 17--hydroxycorticosteroids; epinephrine; longitudinal study; psychiatric patients; thyroid hormones; depression

MH-06792 GRANT, DAVID A., Col. Letters, Sci., Univ. Wisconsin, Madison, Wis.
conditioning..verbal conditioning; discrimination; learning; reinforcement; response

MH-06795 KNAPP, PETER H., Sch. Med., Boston Univ., Boston, Mass.
asthma; pulmonary function; 17-hydroxycorticosteroids; 17-ketosteroids; catecholamines; interviews recording; emotional reactions; longitudinal study; adrenal glands

MH-06826 FURST, ARTHUR, Univ. San Francisco, San Francisco, Cal.
amino acid; behavior; brain; chemical structure--biological activity; cooperative study; epinephrine; norepinephrine; serotonin; synthesis; tryptophan analogs

MH-06858 ROFFWARG, HOWARD R., Columbia Univ., N.Y.C.
age; dreams; psychophysiology; psychoses; psychotherapy; psychotropic drugs; sleep

MH-06900 BROWN, JUDSON S., Sch. Med., Univ. Oregon, Portland, Ore.
masochism; conditioning..extinction; learning; rewards and nonrewards; conditioning..avoidance; conflict; emotional reactions

MH-06901 ROBERTS, WARREN W., Grad. Sch., Univ. Minnesota, Minneapolis, Minn.
emotional reactions; brain..thalamus; brain..hypothalamus; brain..frontal lobe; brain..amygdaloid nucleus; brain.. diencephalon; brain lesions; electrostimulus; psychotropic drugs; fear; aggression; reinforcement; behavior; primates.. monkeys

MH-06913 SCHULTES, RICHARD E., Harvard Univ., Cambridge, Mass.
medicinal plants; hypnotics and sedatives; hallucinogens

MH-07108 **HENDLEY, CHARLES D., Bowman Gray Sch. Med., Winston-Salem, N.C.**
amphetamine; brain..hippocampus; brain, limbic system; chlorpromazine; drugs receptors; imipramine; iproniazid; meprobamate; pentobarbital; primates..squirrel monkeys; psychotropic drugs; reproductive system, male; reserpine; sex behavior

MH-07219 **SCHENKER, VICTOR J., Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.**
alcoholism; ethanol; amine; tranquilizers; stimulants; antidepressants; reserpine; enzymes inhibitors..monoamine oxidase inhibitors

MH-07240 **RIEBER, MORTON, Col. Med., Baylor Univ., Houston, Tex.**
behavior; children; psychometrics; electron recording; psychotropic drugs; drive; hyperkinesia; mental retardation; environment; therapy evaluation

MH-07243 **FELDSTEIN, AARON, Worcester Fdn. Expti. Biology, Shrewsbury, Mass.**
behavior; brain; disulfiram; DOPA; ethanol; isocarboxazid; oxidases..aldehyde oxidase; oxidases..monoamine oxidase; psychological tests; serotonin; tryptophan

MH-07278 **NORTON, STATA, Univ. Kansas Med. Ctr., Kansas City, Kansas**
2-methyl,4-benzylamino pyrrolo-(2,3-d) pyrimidine; depressants; electroencephalography; insulin; barbiturates; brain..optic tracts; potentials..action potentials; learning; behavior

MH-07279 **HUNT, HOWARD F., Middletwon State Hosp., Middletown, N.Y.**
behavior; brain; brain lesions; conditioning; genetics; research programs

MH-07397 **WOLF, HAROLD H., Ohio State Univ. Res. Fdn., Columbus, Ohio**
genetics; conditioning..avoidance; learning; nervous system..central nervous system; chlorpromazine; reserpine; meprobamate; aggression; behavior

MH-07477 **SALZINGER, KURT, Res. Fdn. Mental Hygiene, Inc., New York, N.Y.**
verbal behavior; schizophrenia; adults; children; conditioning..operant conditioning; conditioning.. extinction

MH-07478 **HAKEREM, GAD, Research Foundation for Mental Hygiene, New York, N.Y.**
psychotropic drugs; pupillary reflex; mental disorders; electrophysiology; computer analysis

MH-07498 **LASAGNA, LOUIS, Johns Hopkins Hosp., Baltimore, Md.**
therapy evaluation; drugs; instrumentation--methodology; behavior; analgesics; pain tolerance; hypnotics and sedatives; thermoregulations; pyrogens; conditioning; computer analysis; social psychology; hypertension (systemic); antihypertensive agents; toxicology; education..medical education; research potential

MH-07514 **SOHLER, ARTHUR, N. J. Bureau Res. Neuro., Psych., Princeton, N. J.**
schizophrenia; 6-hydroxyindoles; synthesis; urine; blood..serum; behavior; toxicology; epilepsy; alcoholism; children

MH-07515 **SINGER, JEROME E., Sch. Educ., Pennsylvania State Univ., University Park, Pa.**
epinephrine; anxiety; behavior; emotional reactions; cognition

MH-07534 **WALLER, MARCUS B., Univ. North Carolina, Chapel Hill, N.C.**
amobarbital; chlorpromazine; d--deoxyephedrine; scopolamine; dosage; stimulus; behavior; reinforcement

MH-07536 **FESSEL, W.J., Langley Porter Neuropsychiatric Inst., San Francisco, Cal.**
amyloidosis; blood cells..plasma cells; body fluids; brain..hypothalamus; brain..limbic system; conditioning.. avoidance; emotional reactions; exercise; fatigue; stress

MH-07575 **GESSNER, PIOTR K., Sch. Med., State Univ. New York, Buffalo, N.Y.**
chemical structure--biological activity; tryptamine; synthesis; behavior; conditioning..operant conditioning; radiolabeled carbon

MH-07585 **HENRY, CHARLES E., Inst. of Living, Hartford, Conn.**
children..adolescence; adults; electroencephalography; deviant behavior; tranquilizers; muscle relaxants..anticonvulsants; family; MMPI; therapy evaluation

MH-07591 **KRETCHMER, HENRY E., Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio**
phenothiazine; epinephrine; cardiovascular system; blood pressure; heart rate; schizophrenia; vasoactive agents.. vasopressors; primates; ACTH; stress; electroshock; chemotherapy

MH-07601 **STEVENSON, IAN, Sch. Med., Univ. Virginia, Charlottesville, Va.**
psychotherapy; hydroxydione; d-deoxyephedrine; amobarbital; behavioral adjustment; therapy evaluation; emotional reactions; memory-retention

MH-07616 **KURLAND, ALBERT A., Spring Grove State Hosp., Baltimore, Md.**
drugs addiction; psychotherapy; rehabilitation; motivation; [illegible]; narcotics

MH-07655 **DOTY, LARRY A., Northern Illinois Univ., DeKalb, Ill.**
problem solving; behavior; conditioning..avoidance; chlorpromazine; infant animals; age

MH-07656 **DINNERSTEIN, ALBERT J., New York Med. Col., New York, N.Y.**
psychophysics; perception; reaction time; performance; kinesthetics; Parkinson's disease; chemotherapy; sensory mechanisms; cerebrovascular disorders; hypertension (systemic); reserpine; congenital abnormalities; neuromuscular disorders; diagnostic tests

MH-07658 **KELLEHER, ROGERT T., Harvard Med. Sch., Boston, Mass.**
conditioning..avoidance; rewards and nonrewards; electroshock; reinforcement; behavior; chlorpromazine; chlorodiazepoxide; amobarbital; d--deoxyephedrine; primates..squirrel monkeys; morphine; d--amphetamine

MH-07659 **FAND, IRWIN, Res. Fdn. Mental Hygiene, Inc., Middletown, N. Y.**
phenothiazine; thioridazine; trifluoperazine; chlorpromazine; proclorperazine; promazine; cytotoxicity; cell culture; bone marrow; genetics.. chromosomes; drugs resistance; chemical structure--biological activity

MH-07663 **HESS, SIDNEY M., Col. Agr., Rutgers State Univ., New Brunswick, N.J.**
brain; α-methyl DOPA; α-methyl-m-tyrosine; reserpine; norepinephrine; binding; adrenergic receptors; blood-brain barrier; membrane permeability and transport; amino acid; phenylalanine; diet; phenylketonuria; conditioning..avoidance; learning

MH-07692 **HARRIS, JOSEPH, Barrow Neurological Inst., Phoenix, Ariz.**
psychotropic drugs; brain; membrane permeability and transport; phosphatases..adenosine triphosphatase; dehydratases..carbonic anhydrase; electron transport; ion exchange and transport; heterocyclic compounds; nerves..neurons; nerves..neuroglia; eye..retina; proline; thiazolidine-carboxylic acid; amino acids; glucose; radiolabeled carbon; electrophysiology; lathyrism; neurotoxins; β--aminopropionitrile; molybdenum; chemical structure--biological activity

MH-07776 **SUTTON, SAMUEL, Res. Fdn. Mental Hygiene, Middletown, N.Y.**
psychophysiology; schizophrenia; tranquilizers; hallucinogens; hypnotics and sedatives; stimulants; sensory mechanisms; nervous system..central nervous system

MH-07824 **BARRY, HERBERT, III, Sch. Pharm., Univ. Pittsburgh, Pittsburgh, Pa.**
emotional reactions; performance; stress; conditioning.. avoidance; ethanol; amobarbital; chlorpromazine; chlorodiazepoxide; psychotropic drugs

MH-07842 **MORIN, RICHARD D., Univ. Alabama Med. Ctr., Birmingham, Ala.**
psychotomimetic drugs; chemical structure--biological activity; functional groups; psychotropic drugs; mescaline; bufotenine; synthesis

MH-07861 **McGLOTHLIN, WILLIAM H., Rand Corporation, Santa Monica, Cal.**
hallucinogens; LSD; longitudinal study; self--concept; defense mechanisms; attitude; anxiety; values; creativity; psychological tests; interviews; questionnaire

MH-07869 **GOLDMAN, HAROLD, Ohio State Univ. Res. Fdn., Columbus, Ohio**
rotifers; nervous system; endocrine glands; neurohormones; electrophysiology; immunology; behavior; neuroendocrine systems

MH-07882 **WERNER, GERHARD, Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
body image; brain..somatosensory cortex; computer analysis; hallucinogens; LSD; nerves..denervation; primates..Macaca; psilocybin; somesthesis; stimulus

MH-07903 **ROSENZWEIG, MARK R., Grad. Sch., Univ. California, Berkeley, Cal.**
isolation; experience; brain..cerebral cortex; choline esterases..acetylcholinesterase; problem solving; conditioning..avoidance; instrumentation; learning; acetylcholine; genetics; nerves..dendrites; growth; serotonin; neurohormones; lipids; nucleic acids; memory--retention

MH-07907 **GAIGER, RUTH S., Chicago Med. Sch., Chicago, Ill.**
psychotropic drugs; nerves..neurons; nerves..neuroglia; culture media; brain; choline esterases; radiolabeled carbon; tritium; radiolabeled phosphorus; radiolabeled sulfur

MH-07923 **CHOROVER, STEPHAN L., Massachusetts Inst. Tech., Cambridge, Mass.**
brain; conditioning..avoidance; electroshock; electrostimulus; hallucinogens; learning; memory-retention; potentials; primates..monkeys; psychophysiology; response; tranquilizers

MH-07961 **FRIEDHOFF, ARNOLD J., New York Univ. Sch. Med., New York, N.Y.**
amines; schizophrenia; metabolites; chemical structure; methylation; phenylethylamines; dopamine; tritium; 3,4--dimethoxyphenylethylamine

MH-07973 **BOYD, EUGENE S., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.**
behavior; brain..subcortical structures; brain lesions; decortication; electrodes; implants; reinforcement; self stimulation

MH-07989 **RECKLESS, JOHN B., Duke Univ. Med. Ctr., Durham, N.C.**
adults; amphetamine; emotional reactions; isolation; orientation (psychological); personality; secobarbital sodium

(contd)

LISTING OF GENERAL RESEARCH AREAS

PSYCHOPHARMACOLOGY (CONTD)

MH-07997 SCHWARTZ, ARTHUR S., Barrow Neurological Inst., Phoenix, Arizona
behavior; brain lesions; chlorpromazine; drugs interaction (antagonism); hallucinations; hallucinogens; LSD; nervous system..optic nerve; neurosurgery; primates..monkeys; reserpine; serotonin

MH-08004 KLEIN, DONALD F., Hillside Hosp., Glen Oaks, L.I., New York
behavior rating scales; behavioral adjustment; chlorpromazine; imipramine; interviews; longitudinal study; psychiatric patients; self-concept; therapy evaluation

MH-08006 SCHOENFIELD, WILLIAM N., Grad. Sch., Columbia Univ., New York, N.Y.
experimental psychology; behavior; conditioning..operant conditioning; stimulus generalization; reinforcement; discrimination; cues; reaction time

MH-08027 SICE, JEAN, Chicago Med. Sch., Chicago, Ill.
acetals; behavior; chemical structure--biological activity; enzymes inhibitors; psychotropic drugs

MH-08060 LEHMANN, HEINZ E., Verdun Protestant Hosp., Verdun, Quebec, Canada
aging; amitriptyline; amobarbital; behavior; behavior rating scales; caffeine; chlorodiazepoxide; fluoxymesterone; memory-retention; meprobamate; nicotinic acid; pargyline; pentylenetetrazol; perception; phenelzine; psychiatric patients; psychotropic drugs; reaction time; ritalin; therapy evaluation; thioridazine; vision tests..flicker fusion

MH-08090 KIMBLE, GREGORY A., Grad. Sch., Duke Univ., Durham, N.C.
conditioning; eyelids; reinforcement; attitudes; age; personality; response

MH-08097 SCHOENFELD, WILLIAM N., Columbia Univ., New York, N.Y.
behavior; stress; longitudinal study; primates..Macaca mulatta; electroshock; conflict; peptic ulcer; hunger; thymus; adrenal glands

MH-08101 TRUITT, EDWARD B., Jr., Sch. Med., Univ. Maryland, Baltimore, Md.
hallucinogens; myristicin; behavior; nervous system autonomic nervous system; adrenergic receptors; oxidoreductases..monoamine oxidase; enzyme inhibitors

MH-08111 RAY, OAKLEY S., Veterans Admin. Hosp., Pittsburgh, Pa.
anxiety; behavior; benactyzine hydrochloride; chlorpromazine; conditioning..avoidance; conflict; electroshock; meprobamate; reinforcement; reserpine; tranquilizers

MH-08118 JACOBS, MARTIN A., Sch. Med., Boston Univ., Boston, Mass.
blood cells..eosinophil leukocytes; diagnostic tests; family..parent child; hypersensitivity; psychometrics; psychosomatic medicine; skin tests

MH-08126 BROWN, BARBARA B., California Col. Med., Los Angeles, Cal.
electroencephalography; behavior

MH-08185 DEMENT, WILLIAM C., Sch. Med., Stanford Univ., Palo Alto, Cal.
sleep; dreams; psychoses; behavior; mental processes; arousal; photostimulus; audiostimulus; respiration; psychophysiology

MH-08237 BECK, LLOYD H., Ypsilanti State Hosp., Ypsilanti, Mich.
dark adaptation; visual threshold; schizophrenia; visual perception; visual field; pain; kinesthesis; audiostimulus; conditioning; hallucinations; stimulants; diet; oxygen; attention; auditory threshold; vitamin A; smell; taste; hallucinogens

MH-08282 GOTTSCHALK, LOUIS A., Cincinnati Gen. Hosp., Cincinnati, Ohio
d-amphetamine; chlorpromazine; criteria; depression; imipramine; interpersonal behavior; mental disorders; pargyline; perphenazine; personality; phenobarbital; psychiatric patients; psycholinguistics; psychotherapy; schizophrenia; therapy evaluation

MH-08302 CASSELL, WILFRED A., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
form perception; body image; sensory feedback; touch; temperature; histamine; anesthesia; analgesics; morphine; visual stimulus; Rorschach; caffeine; phenobarbital; adults; schizophrenia; chlorpromazine

MH-08311 OTIS, LEON S., Stanford Res. Inst., Menlo Park, Cal.
behavior; body movement; drugs; instrumentation-methodology; learning; phenothiazine

MH-08406 BRILL, NORMAN, Q., Sch. Med., Univ. California, Los Angeles, Cal.
arousal; autonomic relexes; conditioning..extinction; ethanol; habituation; hearing..auditory discrimination; orelentation, psychological; perception; stimulus generalization

MH-08432 MENDELSON, JACK H., Massachusetts Gen. Hosp., Boston, Mass.
alcoholism; brain..septum pellucidium; conditioning..avoidance; conditioning..operant conditioning; electroshock; ethanol; habituation; lipids; liver; primates..Macaca mulatta; reinforcement; rewards and nonrewards; tissue respiration; toxicology; vitamin B6 complex

MH-08438 FISCHER, GLORIA J., Univ. South Florida, Tampa, Fla.
learning; imprinting; amnesia; electroshock; spatial perception; genetic strains

MH-08441 DOCTER, RICHARD F., Cr. Hlth. Sci., Univ. California, Los Angeles, Cal.
alcoholism; psychophysiology; autonomic reflexes; heart rate; respiration; eye movement; expectancy; drinking behavior; hearing; alertness--vigilance

MH-08443 MODRICK, JOHN A., Sch. Sci., Arts, Colorado State Univ., Fort Collins, Colo.
aggression; behavior; tranquilizers; antihistamines

MH-08474 KURLAND, ALBERT A., Spring Grove State Hosp., Baltimore, Md.
alcoholism; attitudes; biometry; dosage; environment; expectancy; longitudinal study; LSD; personality; psychological tests; therapy evaluation

MH-08501 CAMPBELL, BYRON A., Princeton Univ., Princeton, N.J.
behavior; motivation; stimulants; depressants; psychometrics; exercise; instrumentation--methodology; criteria

MH-08506 SCHUSTER, CHARLES R., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
primates..Macaca mulatta; conditioning..avoidance; feeding behavior; electroshock; drugs addiction; morphine; analgesics; drugs interaction, synergism; stress

MH-08543 YOUNG, RICHARD D., Col. Arts, Sci., Indiana Univ., Bloomington, Ind.
behavior; learning; emotional reactions; adults; infant animals; pregnancy..placental transfer; catecholamines inhibitors; reserpine; chlorpromazine; epinephrine; norepinephrine; electroshock; stress

MH-08579 JOHN, ERWIN R., New York Med. Col, N.Y.C.
research programs; psychopharmacology; centrally acting drugs; electrophysiology; conditioning; behavior; drugs classification; schizophrenia; drugs addiction; learning..mediation; brain..cerebral cortex; brain mapping; therapy evaluation; training; medical personnel; electrolytes; computer analysis

MH-08585 CARLTON, PETER L., Sch. Arts, Sci., Rutgers State Univ., New Brunswick, N.J.
habituation; brain..hippocampus; brain lesions; acetycholine; parasympatholytic agents; nerve impulse transmission; stimulus; scopolamine; atropine

MH-08592 BLUMENTHAL, MONICA D., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
mental retardation; congenital abnormalities; phenylketonuria; children; family..parents; pancreatic cystic fibrosis; interviews; genetics..heterozygotes; mental disorders

MH-08634 YOUNG, WILLIAM C., Med. Res. Fdn. of Oregon, Portland, Oregon
sex behavior; primates..monkeys; testosterone; fetus; hermaphroditism, pseudohermaphroditism; maternal-fetal

MH-08677 STERN, JOHN A., Washington Univ., St. Louis, Mo.
hypnosis; amnesia; conditioning; habituation; memory--retention; audiostimulus; respiration; body temperature; psychophysiology

MH-08747 JARVIK, MURRAY E., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
brain lesions; learning; memory-retention; brain..cerebral cortex; primates..monkeys; cold; instrumentation-methodology; heat exchanger

MH-08748 ZUBEK, JOHN P., Fac. Arts, Sci., Univ. Manitoba, Winnipeg, Canada
immobilization; perception; emotional reactions; intelligence tests; sensory mechanisms; sensory deprivation; hearing; vision; catecholamines

MH-08788 TOMAN, JAMES E.P., Chicago Med. Sch., Chicago, Ill.
behavior; anger; parasympathomimetic agents; parasympatholytic agents; centrally acting drugs; electrostimulus; brain..limbic system; brain lesions; potentials..evoked potentials

MH-08794 GELFAND, DONNA M., Col. Letters, Sci., Univ. Utah, Salt Lake City, Utah
chemotherapy; pain tolerance; threshold; attitudes; self-concept; anxiety; sex difference; analgesics; dosage; therapy evaluation; propoxyphene hydrochloride; phenobarbital; dihydrocodeinone

MH-08804 SILVERMAN, ALBERT J., Sch. Med., Rutgers State Univ., New Brunswick, N.J.
spatial perception; perioheral vascular resistance; blood circulation dynamics; psychophysiology; epinephrine; psychological tests; vision tests; veins

MH-08832 ROBINSON, JOHN S., Sonoma State Hosp., Eldridge, Cal.
brain; brain lesions; visual perception; interocular transfer; experience; sensory deprivation; habituation; electrophysiology; enzymes; cerebrovascular system; age; behavior; primates..monkeys

MH-08833 BAKER, WALTER W., Eastern Pennsylvania Psychiatric Inst., Philadelphia, Pa.
brain..limbic system; psychotropic drugs; psychotomimetic drugs; potentials..evoked potentials; chemoreceptors; chlorpromazine; reserpine; psilocybin; strychnine; serotonin; norepinephrine; phenoxybenzamine; LSD; dichloroisoproterenol; injections..microinjection; picrotoxin; pentylenetetrazol; ethanol; imipramine; tremorine

MH-08839 WENZEL, BERNICE M., Sch. Med., Univ. California, Los Angeles, Cal.
nerve growth promoting protein, sympathetic; immune sera; nervous system..sympathetic nervous system; infants, animals; stress; behavior; learning; conditioning; sympatholytic agents; parasympatholytic agents; brain lesions; adrenal medulla

MH-08898 **NIEFORTH, KARL A., Sch. Pharm., Univ. Connecticut, Storrs, Conn.**
centrally acting drugs; drugs receptors; tranquilizers; reserpine; chlorpromazine; synthesis; chemical structure--biological activity; binding

MH-08953 **WERBOFF, JACK, Jackson Lab., Bar Harbor, Me.**
behavioral adjustment; isolation; social behavior; emotional reactions; vocalization; infants..animals; age; chlorpromazine; amphetamine; ethanol; morphine; psychotropic drugs

MH-08954 **FISHER, SEYMOUR, Massachusetts Mem. Hospitals, Boston, Mass.**
attitudes; criteria; drugs; expectancy; hospitals outpatients; personality; physician-patient relationship; psychiatric patients; socioenvironment; therapy evaluation

MH-10003 **HERNANDEZ-PEON, RAUL, Inst. Investigaciones Cerebrales, A. C., Mexico, D. F.**
sleep; brain mapping; brain..limbic system; brain lesions; arousal; eye movement; potentials..membrane potentials; acetylcholine

MH-10083 **CLEMENTE, CARMINE D., Sch. Med., Univ. California, Los Angeles, Cal.**
brain..subcortical structures; brain lesions; learning; performance; arousal; sleep; primates..monekys; psychotropic drugs

MH-10093 **SCHAEFER, HALMUTH H., Patton State Hosp., Patton, Cal.**
emotional reactions; verbal behavior; time; reinforcement; environment; psychotomimetic drugs; phylogeny; primates

MH-10109 **WAY, JAMES L., Sch. Med., Marquette Univ., Milwaukee, Wis.**
psychotomimetic drugs; alkylphosphates; 2--pyridine aldoxime methiodide; atropine; drugs interaction; toxicology; antidotes; blood--brain barrier; nervous system..central nervous system; cerebrospinal fluid; therapy evaluation; oximes; hydroxamic acids; choline esterases..acetylcholinesterase; primates..monkeys

MH-10130 **GROSSMAN, SEBASTIAN P., Univ. Chicago, Chicago, Ill.**
neurohormones; psychotropic drugs; brain..hypothalamus; brain..limbic system; behavior; emotional reactions; nervous system..autonomic nervous system; diffusion

MH-10146 **KRIVOY, WILLIAM A., Col. Med., Baylor Univ., Houston, Texas**
psychotropic drugs; fish..electric fish; bioassay; potentials; morphine; allylnormorphine..behavior.. communication

MH-10191 **LEVENSTEIN, SIDNEY, Hillside Hosp., Glen Oaks, Long Island, N.Y.**
social adjustment; psychiatric patients; longitudinal study; therapy evaluation; psychotropic drugs; attitude; family; community; hospitals release; interviews

MH-10215 **RUFF, GEORGE E., Sch. Med., Hosp. of Univ. Pennsylvania, Philadelphia, Pa.**
psychophysiology; autonomic reflexes; respiration; heart rate; body temperature; lung volume; blood volume; cardiotachometer; psychological tests; arousal

MH-10247 **MENDELSON, JACK H., Massachusetts Gen. Hosp., Boston, Mass.**
alcoholism; behavior; drinking behavior; choice behavior; ethanol; radiolabeled carbon; metabolites; breath composition; water--electrolyte balance; hydrocortisone; oxidoreductases..alcohol dehydrogenases; aminotransferases; visual perception; motivation; reinforcement

MH-10252 **COLLIER, GEORGE H., Rutgers State Univ., New Brunswick, N.J.**
learning; motivation; conditioning; nutrition; deoxyribonucleic acid; ribonucleic acid; proteins; lipids; amino acids

MH-10253 **HENNEMAN, ELWOOD, Harvard Univ. Med. Sch., Boston, Mass.**
sleep; nervous system; metabolites; behavior; primates..monkeys

MH-10261 **McGAUGH, JAMES L., Grad. Sch., Univ. California, Irvine, Cal.**
learning; genetic strains; stimulants; depressants; antimetabolites; memory--retention; motivation; electroshock

MH-10324 **MIKSKY, ALLAN F., Sch. Med., Boston Univ., Boston, Mass.**
attention; brain mapping; brain..subcortical structures; potentials..evoked potentials; electroencephalography; chlorpromazine; secobarbital sodium; deprivation; sleep; epilepsy; 4--(nbis(2--chloroethyl)amino)phenyl--butyric acid; discrimination; primates..Macaca mulatta; electrocoagulation; electrostimulus

MH-10390 **BURBRIDGE, THOMAS N., Univ. California Med. Cr., San Francisco, Cal.**
centrally acting drugs; nervous system..autonomic nervous system; chlorpromazine; phenothiazine; detoxication; catecholamines; epinephrine; pie ..norepinephrine; enzyme inhibitors..monoamine oxidase inhibitors; oxidoreductases..alcohol dehydrogenases; jaundice; hyperbilirubinemia; kernicterus; infant human..newborn

MH-10455 **DI MASCIO, ALBERTO, Massachusetts Mental Hlth. Cr., Boston, Mass.**
chlorpromazine; schizophrenia; metabolites; psychophysiology; therapy evaluation; psychological tests

MH-10474 **DINSMOOR, JAMES A., Grad. Sch., Indiana Univ., Bloomington, Ind.**
rewards and nonrewards; reinforcement; electroshock; discrimination

MH-10475 **LENNARD, HENRY L., Bureau of Applied Social Res., New York, N.Y.**
psychotropic drugs; social psychology; publications.. monograph publications..literature survey; interviews; geographical sites..United States; geographical sites ..England

MH-10641 **SCHMIDT, HANS, Jr., Sch. Med., Washington Univ., St. Louis, Mo.**
barbiturates; drugs addiction; body weight; drinking behavior; thirst; body fluids; oxygen consumption; heart rate

MH-10734 **RUSHFORTH, NORMAN B., Col. Arts, Sci., Western Reserve Univ., Cleveland, Ohio**
coelenterates; nervous system; behavioral adjustment; stimulus; habituation; conditioning; response

MH-10761 **CLOUET, DORIS H., New York State Res. Inst., New York, N.Y.**
narcotics; morphine; brain; cell components.. ribosomes; proteins; ribonucleic acid

MH-10776 **HEUSER, GUNNAR, Univ. California Cr. Hlth. Sci., Los Angeles, Cal.**
behavior; sleep; convulsions; nervous system..central nervous system; brain lesions; dehydroepiandrosterone; 11--deoxy--17--hydroxycorticosterone; narcolepsy; primates..squirrel monkeys; primates..Macaca mulatta

MH-10777 **CHARALAMPOUS, KANELLOS D., Houston State Psychiatric Inst., Houston, Tex.**
mescaline; metabolites; reaction sites; behavior; biometry; dosage; psychotomimetic drugs; primates.. monkeys; volunteers

MH-10784 **RUBIN, LEONARD S., Eastern Pennsylvania Psychiatric Inst., Philadelphia, Pa.**
psychoses; auditory reflex; vision; eye..pupil; adrenergic receptors; cholinergic receptors; autonomic reflexes

MH-10788 **HOLMES, JOHN E., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
electroencephalography; choice behavior; electroshock; conflict; learning; rewards and nonrewards; neuroses; conditioning..avoidance; brain mapping; computer analysis; tranquilizers; morphine

MH-10826 **BERRY, CHARLES A., Sch. Med., Northwestern Univ., Chicago, Ill.**
brain..cerebral cortex; brain..subcortical structures; brain mapping; brain lesions; epilepsy; potentials..evoked potentials; muscle relaxants..anticonvulsants; diphenylhydantoin; reserpine; chlorpromazine; pentylenetetrazol

MH-10836 **WINTERS, WALLACE D., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.**
behavior; electroencephalography; catecholamines; indoles; blood--brain barrier; nerves..myelination; nerves..neuroglia; growth; brain; centrally acting drugs; dopamine; norepinephrine; epinephrine; serotonin; body water

MH-10852 **FROMMER, GABRIEL P., Col. Arts, Sci., Indiana Univ., Bloomington, Ind.**
potentials..evoked potentials; brain lesions; brain.. lemniscus medial; sensory mechanisms; sleep; anesthetics; conditioning; discrimination; implants

MH-10853 **GELLER, IRVING, New York Med. Col., New York, N.Y.**
laboratory facilities; psychopharmacology; behavior; conditioning..operant conditioning; rewards and nonrewards; chemical structure--biological activity; tranquilizers; research programs

MH-10895 **McHUGH, PAUL R., Cornell Univ. Med. Col., New York, N.Y.**
diurnal variation; hydrocortisone; adrenal glands; stomach..gastric juice; secretory mechanisms; depression; brain damage; dexamethasone; 2--methyl--1,2--bis(3--pyridyl)--1--propanone

MH-10896 **BOGDONOFF, MORTON D., Duke Univ. Med. Cr., Durham, N.C.**
autonomic reflexes; autonomic agents; lipids; heart rate; blood pressure; interpersonal behavior; performance; drugs receptors

MH-10927 **FEINBERG, IRWIN, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.**
brain disorders; schizophrenia; sleep; hallucinations; monitoring; age; sex difference; ethnic groups; phenobarbital; chlorpromazine; electroencephalography; rapid eye movement

MH-10994 **BELLAK, LEOPOLD, Teachers Col., Columbia Univ., New York, N.Y.**
stimulants..antidepressants; personality; ego; psychometrics; psychiatric patients; imipramine; phenelzine; depression

MH-11029 **LUDVIGSON, H. WAYNE, Carnegie Inst. Technology, Pittsburgh, Pa.**
frustration; learning; performance; choice behavior; reinforcement; centrally acting drugs; amobarbital

(contd)

PSYCHOPHARMACOLOGY (CONTD)

MH-11050 **GOLDMAN, RONALD, Bill Wilkerson Hearing, Speech Cr., Nashville, Tenn.**
speech disorders; therapy evaluation; tranquilizers; thioridazine; chlordiazepoxide; interviews recording; toxicology; anxiety

MH-11063 **SENTER, RODERICK J., Grad. Sch. Arts, Sci., Univ. Cincinnati, Cincinnati, Ohio**
habituation; drinking behavior; ethanol; conditioning..avoidance; conditioning..operant conditioning; electroshock; drive

MH-11075 **KEELER, CLYDE E., Milledgeville State Hosp., Milledgeville, Ga.**
mental disorders; tranquilizers; phenothiazines; therapy evaluation; fox; genetic strains

MH-11086 **SLOANE, HOWARD N., Jr., Grad. Sch., Univ. Washington, Seattle, Wash.**
pyridoxine; dietary deficiency; behavior; age; antimetabolites

MH-11119 **KAPADIA, GOVIND, J., Col. Pharm., Howard Univ., Washington, D.C.**
psychotomimetic drugs; alkaloids; cactus; medicinal plants

MH-11135 **THOMPSON, TRAVIS I., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
morphine; drugs addiction; social behavior; primates.. Macaca mulatta

MH-11189 **WHITE, RICHARD P., Univ. Tennessee Med. Units, Memphis, Tenn.**
reserpine; drugs interaction; behavior; brain; catecholamines; serotonin; psychotropic drugs; cocaine; mephentermine; d--deoxyephedrine; a--methyl--m--tyrosine; chlorpromazine; pentobarbital; scopolamine; imipramine; desmethylimipramine

MH-11201 **STEFANIS, COSTAS N., Eginition Hosp., Athens, Greece**
psychotropic drugs; epilepsy; convulsions; nervous system..central nervous system; nerves..neurons; nerves..synapses; potentials..membrane potentials

MH-11226 **GOLDSCHMIDT, LEONTINE, Creedmoor Inst., Queens Village, N.Y.**
mental disorders; sulfhydryls; glutathione; blood cells..erythrocytes; age; sex difference; ethnic groups..Negroes; ethnic groups..whites

MH-11229 **RESNICK, OSCAR, Worcester Fdn. Exptl. Biol., Inc., Shrewsbury, Mass.**
LSD; serotonin; enzyme inhibitors..monoamine oxidase inhibitors; reserpine; tryptophan; drugs interaction

MH-11294 **HURST, PAUL M., Inst. Res., State College, Pa.**
choice behavior; decision--making; psychotropic drugs; d--amphetamine; secobarbital sodium; chlordiazepoxide; meprobamate; dimenhydrinate; chlorpromazine; dosage; motivation; conflict; game theory

MH-11295 **DAVIS, W. MARVIN, Sch. Pharm., Univ. Mississippi, University, Miss.**
behavior; infant animals; morphine; pregnancy.. placental transfer; maternal--fetal; toxicology; dosage; drugs addiction

MH-11299 **KNAPP, PETER H., Sch. Med., Boston Univ., Boston, Mass.**
psychosomatic medicine; asthma; pulmonary function; emotional reactions; pulmonary airway resistance; psychophysiology

MH-11378 **GERSHON, SAMUEL, Univ. Missouri, St. Louis, Mo.**
lithium; therapy evaluation; mental disorders; depression; electrolytes; behavior; chlorpromazine

MH-11381 **ITIL, TURAN, Sch. Med., Univ. Missouri, St. Louis, Mo.**
schizophrenia; drugs resistance; therapy evaluation; psychotropic drugs; piperazines; phenothiazine; chlorpromazine; psychotomimetic drugs; ditran; LSD; dosage; thiopental sodium; phenylcyclohexyl piperidine; cerebrospinal fluid; potentials..evoked potentials; parasympatholytic agents; muscle relaxants; social behavior

MH-11734 **BROWN, JUDSON S., Col. Liberal Arts, State Univ. Iowa, Iowa City, Iowa**
masochism; conditioning..extinction; learning; rewards and nonrewards; conditioning..avoidance; conflict; emotional reactions

MH-11752 **WEISS, BERNARD, Sch. Med., Univ. Rochester, Rochester, N.Y.**
behavior; chlorpromazine; morphine; pain tolerance; amphetamine; computer programming; computer analysis; performance; conditioning..avoidance; reinforcement; psychotropic drugs; conditioning..operant conditioning; thermoregulation; drugs interaction

MH-11889 **WEINER, HERBERT, Montefiore Hosp., Med. Cr., Bronx, N.Y.**
electrodes..microelectrodes; nervous system..pyramidal tracts; nerves..synapses; d--tubocurarine; drugs; blood pressure; neurohormones; sensory mechanisms; response; mental disorders; computer

MH-11907 **STARK, LAWRENCE, Presbyterian-St. Luke's Hosp., Chicago, Ill.**
eye movements; nystagmus; centrally--acting drugs; mathematical models; eye models; computer analysis

NB-03835 **SIDMAN, MURRAY, Massachusetts Gen. Hosp., Boston, Mass.**
nervous system disorders; behavior; child development; conditioning; disease classification; infant human; adults

NB-04075 **KIMBALL, ROBERT W., Methodist Hosp., Brooklyn, N.Y.**
aminoaciduria; genetics; headache..migraine; 5-hydroxyindole acetic acid; 3-methoxy-4-hydroxymandalic acid; reserpine

NB-04111 **TALLAND, GEORGE A., Massachusetts Gen. Hosp., Boston, Mass.**
Parkinson's disease; cognition; psychomotor function; performance; psychological tests; ethopropazine; tricyclamol; pentobarbital

NB-04255 **KANTOR, THOMAS G., Sch. Med., New York Univ. Med. Cr., N.Y.C.**
analgesics; orthopedics; pain; psychometrics; therapy evaluation

NB-05788 **WOLFF, B. BERTHOLD, New York Univ. Med. Cr., New York, N.Y.**
pain; skin; muscles..skeletal muscle; nerves.. innervation; classification; saline solutions; injections; electrostimulus; threshold; psychophysics

NB-05789 **COURSIN, DAVID B., St. Joseph Hosp., Lancaster, Pa.**
brain..cerebral cortex; nerves..neurons; nerves.. myelin; pyridoxine; dietary deficiency; memory--retention; proteins; cell components..microsomes; lipids

OH-00140 **TEICHNER, WARREN H., Grad. Sch., U. Massachusetts, Amherst, Mass.**
air pollution; carbon monoxide; hypoxia; stress; performance; sensory mechanisms; toxicology; psychophysiology

RH-00306 **HAVLENA, JOAN M., Col. Med., Wayne State Univ., Detroit, Mich.**
maternal-fetal; radiation effects; radiation protection; x-rays; cysteamine; behavior; mental retardation; audiogenic seizure; nerve impulse transmission; sensory disorders; adrenal glands; adrenalectomy; fetus

RADIATION

AI-06402 **VAN DYKE, JAMES G., New York Univ. Med. Cr., N.Y.C.**
viruses..bacteriophage T; bacteria..Escherichia coli; radiation effects; host--virus; virus replication; genetics..genes; deoxyribonucleic acid; oxygen; radiation protection; chemical bonds

AM-02589 **STEINBACH, HOWARD L., Sch. Med., Univ. California, San Francisco, Cal.**
diet; dietary deficiency; electrolytes; endocrine glands disorders; hyperparathyroidism; metabolic diseases; osteoporosis; primates..monkeys; vitamin D

AM-02641 **VOSE, G.P., Texas Woman's Univ., Denton, Texas**
bone density; minerals; tensile strength; bone stress; osteoporosis; bone fractures

AM-03910 **JACOBSON, BERTIL, Karolinska Inst., Stockholm, Sweden**
dichromography; instrumentation; computer; hydroxyapatite; osteoporosis; thyrotoxicosis; iodine; spectrophotometry

AM-04219 **ADELSTEIN, S. JAMES, Sch. Med., Harvard Univ., Cambridge, Mass.**
radiation effects; NAD; binding; enzymes; cell components..organelles; cell components..cell nucleus; hibernation

AM-04512 **BARNHARD, HOWARD J., Univ. Arkansas, Med. Cr., Little Rock, Ark.**
bone; cineradiography

AM-05169 **BAUER, ROGER D., Long Beach State Col., Long Beach, Cal.**
deoxyribonucleic acid; radiation effects..whole body radiation; binding; dyes

AM-05170 **KOSZALKA, THOMAS R., Univ. Rochester, Rochester, N.Y.**
creatinuria; radiation effects..whole body radiation; tocopherol; dietary deficiency; cancer; creatine; muscle; hormones; perfusion; body fluids; radiolabeled carbon

AM-05414 **LASSER, ELLIOTT C., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
contrast media; kidney; liver; poisoning

AM-05584 **ROBINSON, JAMES E., Sch. Med., Univ. Maryland, Baltimore, Md.**
radiation sensitivity; cell; temperature; cystine; cell culture; oxygen; cell division; nutrition; genetics.. chromosomes

AM-06420 **DANIELS, MALCOLM, Puerto Rico Nuclear Cr., San Juan, P.R.**
photochemistry; radiation effects; ionizing radiation; ultraviolet rays; radioisotopes..cobalt 60; nucleoproteins; deoxyribonucleic acid; pyrimidines; solutions..aqueous solutions; molecular rearrangement; dyes; luminescence

AM-06760 **GREGG, EARLE C., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
instrumentation; liver; radioisotopes; scintillation counter; diagnostic tests; brain; thyroid gland; aneurysm

AM-07509 **PORTELA, ADOLFO, Univ. Buenos Aires, Buenos Aires, Argentina**
muscle cells; potentials..membrane potentials; dosage; radiation effects

AM-07857 **DIXON, JOHN A., Dee Hospital, Ogden, Utah**
albumins..serum albumins; blood cells..erythrocytes; cinefluorography; contrast media; diagnostic tests; intestinal obstruction

AM-07863 **STRAILE, WILLIAM E.,** Roswell Park Memorial Inst., Springville, N.Y.
epithelium; hair follicle; melanocytes; radiation effects; regeneration; skin neoplasms; x-rays

AM-08059 **MABRY, C. CHARLTON,** Univ. Kentucky Med. Cr., Lexington, Ky.
adults; albumins..serum albumins; anemia; children; diagnostic tests; gastrointestinal disorders; malnutrition; membrane permeability; nephrosis; pancreatic cystic fibrosis; pericarditis; radio-labeled chromium

AM-08201 **HERRANEN, AILENE,** Worcester Fdn. Exptl. Biol., Inc., Shrewsbury, Mass.
proteins; radiation effects..whole body radiation; x-rays; radiomimetic agents; thymus; blood cells..lymphocytes; cell components..cytoplasm; cell components..cell nucleus; amino acid; cytotoxicity; radiation protection; ribonucleic acid; deoxyribonucleic acid; histones

AM-08985 **FRIEDELL, MORRIS T.,** Jackson Park Hosp. Fdn. Chicago, Ill.
radioisotopes..iodine 125; radioisotope tomography; instrumentation--methodology; bone..femur; bone fractures; blood vessels; diagnostic tests

AM-09120 **PALUBINSKAS, ALPHONSE J.,** Univ. California Med. Cr., San Francisco, Cal.
angiography; kidney transplantation; transplantation.. autotransplantation; transplantation..homotransplantation; transplantation..heterotransplantation; transplantation rejection; blood flow; blood vessels restoration; immunity..hypoimmunity; laboratory facilities; instrumentation--methodology

AM-09319 **SHUFORD, WADE H.,** Grady Memorial Hosp., Atlanta, Ga.
arteries..renal artery; arteries..arterioles; injections; contrast media; kidney disorders; renal hypertension; neohrectomy

CA-00492 **CHASE, HERMAN B.,** Brown Univ., Providence, R.I.
aging; carcinogenesis; skin; radiation effects; neoplasms transplantation; oxygen; hair follicle; pigments; growth; mutations; x--rays; microbeam radiation; skin neoplasms

CA-01558 **SMITH, CHRISTIANNA,** Mt. Holyoke Col., South Hadley, Mass.
dosage; genetic strains; lymphoma; phosphomonoesterases.. alkaline phosphatase; radiation effects; thymus; x-rays

CA-01984 **HALE, JOHN,** Hosp. of Univ. Pennsylvania, Phila., Pa.
cinefluorography; dosage; ionization chambers; phantom models; radiation counters; radiation therapy; radiography; scintillation counters; x-rays

CA-02449 **GUTTMANN, RUTH J.,** Francis Delafield Hosp., New York, N.Y.
radiation therapy; high energy particles; breast neoplasms; carcinoma; radiation effects; lymph nodes; bronchogenic carcinoma; surgery..postoperative; dosage; instrumentation--methodology; ionization chambers; x--rays; radioisotopes..cobalt 60; radioisotopes..iron 59; fluorescence; skin tests; longitudinal study; therapy evaluation

CA-02565 **GOLDFEDER, ANNA,** Grad. Sch., New York Univ., N.Y.C.
radiation sensitivity; neoplasms; cytology; dosage; radiation therapy; antineoplastic agents

CA-03112 **MILLER, NORMAN F.,** Sch. Med., Univ. Michigan, Ann Arbor, Mich.
antibiotics; bioassay; cell culture; cell types; drugs; neoplasms; neoplastic cells; proteases..trypsin; radiation sensitivity; radiation therapy; screening; surgery; transformation

CA-03265 **McQUEEN, JOHN D.,** Baltimore City Hosp., Baltimore, Md.
brain neoplasms; reaction sites; glioma; scintillation scanner..positron scanner; radioisotopes..arsenic 72; radioisotopes..arsenic 74; radioisotopes..iodine 124; radioisotopes..iodine 131; diagnostic tests; radiation effects; meningeal exudates and effusions; meninges..subdural space; Ehrlich ascites carcinoma; foreign bodies; molecules..macromolecules; molecular structure; albumin; cell components..lysosomes; pinocytosis; carbon dioxide

CA-03283 **SHALEK, ROBERT J.,** Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
radiation effects; enzymes; gamma rays; temperature; oxygen; thiourea; proteins; carbohydrases..lysozyme

CA-03332 **LOKEN, MERLE K.,** Univ. Minnesota Hosps., Minneapolis, Minn.
radiation effects..whole body radiation; nucleotides; lipoproteins; phospholipids; carcinoma; breast neoplasms; Ehrlich ascites carcinoma; fractionation; radiolabeled phosphorus

CA-03352 **KAPLAN, HENRY S.,** Sch. Med., Stanford Univ., Palo Alto, Cal.
carcinogenesis; leukemia; urethan; viruses..oncogenic viruses; bioassay

CA-03353 **KALIMAN, ROBERT F.,** Stanford Univ., Palo Alto, Cal.
radiation effects; dosage; breast neoplasms; neoplasms; lymphoma; radiation sensitivity; bone; genetics; growth

CA-03367 **TRENTIN, JOHN J.,** Col. Med., Baylor Univ., Houston, Tex.
radiation protection; histocompatibility; homologous wasting disease; lymphatic tissue; hematopoietic tissues; bone marrow; transplantation..homotransplantation; hematopoietic tissue transplantation

CA-03811 **LAUGHLIN, JOHN S.,** Sloan-Kettering Inst. Cancer Res., New York, N.Y.
radiation effects; microorganisms; genetics..genes; deoxyribonucleic acid; viruses..bacteriophage; immunology; neoplastic cells; radiation counters; calorimetry; radiography; dosage; bone marrow; gonads; radiation hazards; radiation therapy; radioisotopes; instrumentation; x-rays; transformation; viruses..Rous sarcoma virus; nucleic acid analogs

CA-03896 **MENDELSOHN, MORTIMER L.,** Hosp. Univ. Pennsylvania, Philadelphia, Pa.
cell division; breast neoplasms; mathematical models; population dynamics, cell; tritium; neoplastic growth; deoxyribonucleic acid; genetics..chromosomes; blood cells..leukocytes; radiation counters; spectrophotometry; cytology

CA-04456 **KUHL, DAVID E.,** Hosp. Univ. Pennsylvania, Philadelphia, Pa.
radioisotope tomography; neoplasms; diagnostic tests; instrumentation

CA-04484 **DEWEY, WILLIAM C.,** Univ. Texas, Houston, Texas
age; gases; genetics..chromosomes; implants; neoplastic cells; nutrients; radiation sensitivity; radiation therapy

CA-04542 **BAGSHAW, MALCOLM A.,** Sch. Med., Stanford Univ., Stanford, Cal.
radiation sensitivity; x-rays; 5-bromodeoxycytidine; cell; 5-bromo-2'-deoxyuridine; deamination; deoxyribonucleic acid; thymidine analogs; radiolabeled bromine; 6-thio-guanine

CA-04701 **UHLMANN, ERICH M.,** Michael Reese Hosp., Chicago, Ill.
radiolabeled oxygen; radioisotopes..oxygen 15; bacteria.. Escherichia coli; oxygen consumption; radiation therapy; linear accelerators; radiation effects

CA-05047 **SUIT, HERMAN D.,** Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
radiation effects; x-rays; adenocarcinoma; osteogenic sarcoma; breast neoplasms; hypoxia; dosage; computer programming; neoplasms

CA-05446 **VAN LANCKER, JULIAN L.,** Sch. Med., Univ. Wisconsin, Madison, Wis.
radiation effects; x--rays; deoxyribonucleic acid; regeneration; liver; lymphatic tissue; phosphotransferases ..ATP : thymidine 5'--phosphotransferase; phosphotransferases..DNA nucleotidyl transferase; radiolabeled phosphorus; cell components..microsomes; hydrolases; carcinogenesis; lymphoma

CA-05496 **SHELLABARGER, CLAIRE J.,** Sch. Med., Univ. Michigan, Ann Arbor, Mich.
breast neoplasms; radiation effects; x-rays; carcinogenesis; AET; radiation protection; estrogens; dosage; methylcholanthrene

CA-05497 **HENDRICKSON, FRANK R.,** Presbyterian-St. Luke's Hosp., Chicago, Ill.
radiation effects; deoxyribonucleic acid; neoplasms; intestines; spleen; tritium; radiation sensitivity

CA-05654 **FLETCHER, GILBERT H.,** Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
therapy evaluation; radiation therapy; x-rays; neoplasms; longitudinal study; statistics

CA-05687 **GREENBERG, JOSEPH,** Palo Alto Med. Fdn., Palo Alto, Cal.
radiomimetic agents; radiation sensitivity; x-rays; ultraviolet rays; genetics; mutations; genetic strains; bacteria..Escherichia coli; genetic mapping; deoxyribonucleic acid; radiolabeled carbon; methyl nitrosoguanidine; transduction; conjugation

CA-05703 **MATHE, GEORGES,** Hosp. Paul Brousse, Villejuif, France
immunity; leukemia; leukemia..lymphocytic leukemia; leukemia..mouse leukemia, Friend; leukemia..mouse leukemia L1210; radiation effects..whole body radiation; radiation therapy; transplantation immunology; bone marrow transplantation

CA-05739 **DUNPHY, J. ENGLEBERT,** Sch. Med., Univ. Oregon, Portland, Ore.
basement membrane; blood; carcinoma; cell components.. cytoplasm; inclusion bodies; intestinal neoplasms..colon neoplasms; intestinal neoplasms..rectum neoplasms; neoplastic cells; radiation effects; radiation therapy; surgery ..preoperative; tissue culture; transplantation..heterotransplantation

CA-05838 **KAPLAN, HENRY S.,** Sch. Med., Stanford Univ., Palo Alto, Cal.
research programs; radiation therapy; cancer; therapy evaluation; diagnostic tests; radiation sensitivity; radiation effects..whole body radiation; cancer chemotherapy; steroids; arterial infusions; purine analogs; pyrimidine analogs; Hodgkin's disease; lymphosarcoma

CA-05846 **POWERS, WILLIAM E.,** Sch. Med., Washington Univ., St. Louis, Mo.
dosage; drugs; neoplasms; neoplastic cells; oxygen tension; radiation sensitivity; radiation therapy; x-rays

CA-05859 **ROENIGK, WILLIAM J.,** Ohio State Univ. Fdn., Columbus, Ohio
cancer chemotherapy; neoplasms; radiation therapy; radioisotopes..cesium 137; radioisotopes..cobalt 60 surgery; veterinary medicine

CA-06001 **LOKEN, MERLE K.,** Sch. Med., Univ. Minnesota Hosp., Minneapolis, Minn.
radiation protection; bone marrow; cell types; density gradient ultracentrifugation; fractionation; radiation effects..whole body radiation

(contd)

RADIATION (CONTD)

CA-06087 **WOHL, GEORGE T., Philadelphia Gen. Hosp., Philadelphia, Pa.**
lymphangiography; diagnostic tests; carcinoma; lymphoma; inflammation; contrast media; lymphatic tissue; lymphangitis; thrombophlebitis; embolism; lipids..serum lipids; metastasis; lymphatic system; injections; cancer chemotherapy; antineoplastic agents

CA-06097 **QUEVEDO, WALTER C., Jr., Brown Univ., Providence, R.I.**
x--rays; ultraviolet rays; radiation effects; gamma rays; radiation protection; melanocytes; melanin; radiation sensitivity; hair follicle; hormones; melanoma; genetics; pigmentation disorders

CA-06117 **FISCHER, HARRY W., Sch. Med., State Univ. Iowa, Iowa City, Iowa**
radiography; lymph nodes neoplasms; diagnostic tests; metastasis; contrast media; lymphoma; lymphatic system; antineoplastic agents; cancer chemotherapy; reticuloendothelial system

CA-06125 **CARR, EDWARD A., Jr., Sch. Med., Univ. Michigan, Ann Arbor, Mich.**
antineoplastic agents; therapy evaluation; radiolabeled phosphorus; bone marrow; neoplasms; radiation counters

CA-06229 **WHITMORE, GORDON F., Ontario Cancer Inst., Toronto, Ontario, Canada**
radiation effects; cell division..mitosis; L--cells; tritium; radiolabeled carbon; nucleosides; deoxyribonucleic acid; 5--fluoro--2--deoxyuridine; 5--bromo--2--deoxyuridine

CA-06258 **GOODWIN, WILLARD E., Sch. Med., Univ. California, Los Angeles, Cal.**
therapy evaluation; urinary bladder neoplasms; carcinoma; cystectomy; radiation therapy; x-rays

CA-06275 **THORPE, JOHN D., Good Samaritan Hosp., Portland, Oregon**
geographical sites..United States, Pacific Northwest; radiation fallout; longitudinal study; trace elements; neoplasms; enzymes; diet

CA-06294 **FLETCHER, GILBERT H., Univ. Texas, Houston, Tex.**
research programs; radiation therapy; radiation effects; radiation sensitivity; x-rays; radiation protection; biomathematics

CA-06295 **VERMUND, HALVOR, Sch. Med., Univ. Wisconsin, Madison, Wis.**
radiation therapy; dosage; computer; research programs; neoplasms; deoxyribonucleic acid; radiation effects; longitudinal study

CA-06353 **BECKER, FREDERICK F., Sch. Med., New York Univ., New York, N.Y.**
cell division..mitotic spindle; radiation effects; neoplasms; antimitotic agents

CA-06434 **BURNS, BEAURY C., Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.**
uterus neoplasms..cervic neoplasms; carcinoma; cytodiagnosis; radiation sensitivity; mucous membrane; cheek; x-rays; cytology

CA-06500 **SAENGER, EUGENE L., Sch. Med., Univ. Cincinnati, Cincinnati, Ohio**
radiation therapy; radiation effects; cancer; statistics; children

CA-06518 **BLOEDORN, FERNANDO G., Sch. Med., Univ. Maryland, Baltimore, Md.**
research programs; radiation therapy; training; neoplasms

CA-06519 **KLIGERMAN, MORTON M., Sch. Med., Yale Univ., New Haven, Conn.**
research programs; radiation therapy; radiation effects; molecular biology; genetics..recombination; radiation sensitivity; enzymes; mutations; x--rays; ultraviolet rays; ion exchange and transport; nucleotides analogs; nucleic acids; deoxyribonucleic acid

CA-06525 **HENDRICKSON, FRANK R., Presby.-St.Luke's Hosp., Chicago, Ill.**
radiation sensitivity; cell division..mitosis; cell division..synchronous cell division; cell culture tritium; thymidine; radiolabeled carbon; deoxyribonucleic acid

CA-06567 **VIAMONTE, MANUEL, Jr., Sch. Med., Univ. Miami, Coral Gables, Fla.**
chemical structure--biological activity; contrast media; iodinated compounds; lymphangiography; metal chelates; molecules..macromolecules; polymers; polysaccharides; PVP; synthesis; toxicology

CA-06581 **MacMAHON, BRIAN, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.**
lung neoplasms; carcinoma; radiation therapy; thoracic surgery; cooperative study; surgery..preoperative

CA-06629 **WOOD, THOMAS H., Grad. Sch., Arts, Sci., Univ. Pennsylvania, Philadelphia, Pa.**
bacteria; cell water; fungi..yeasts; genetics..recombination; heat lability; mutations; radiation sensitivity; thermodynamics; ultraviolet rays; x-rays

CA-06630 **RUBIN, PHILIP, Univ. Rochester Med. Cr., Rochester, N.Y.**
radiation effects; radiation therapy; neoplasms; blood vessels; oxygen; metastasis

CA-06631 **SCHREK, ROBERT, Sch. Med., Northwestern Univ., Hines, Ill.**
blood cells..lymphocytes; cell death; dosage; lymphatic tissue; radiation effects..whole body radiation; radiation sensitivity; x-rays

CA-06632 **ZIRKLE, RAYMOND E., Sch. Biol. Sci., Univ. Chicago, Chicago, Ill.**
cell division..mitosis; genetics..chromosomes; ionizing radiation; microbeam radiation; radiation effects; ultraviolet rays

CA-06633 **REVESZ, LASZLO, Royal Karolinska Inst., Stockholm, Sweden**
neoplastic cells; cell types; radiation sensitivity; x-rays; radiomimetic agents; genetics..chromosomes; deoxyribonucleic acid; hypoxia; population dynamics, cell; neoplasms; radiation therapy

CA-06634 **AUGENSTEIN, LEROY G., Grad. Sch., Michigan State Univ., East Lansing, Mich.**
amino acid; cell water; disulfide bonds; hydrogen bond; nucleases; proteases..trypsin; radiation effects; ultraviolet rays; x-rays

CA-06636 **HAMMOND, CAROLYN W., Univ. Illinois Med. Cr., Chicago, Ill.**
liver cells; cell culture; radiation protection; fetus; x--rays; spleen; cells

CA-06755 **MacMAHON, BRIAN, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.**
lung neoplasms; radiation therapy; cooperative study

CA-06794 **NORMAN, ALEX, Hosp. Joint Diseases, N.Y.C.**
laminagraphy; instrumentation-methodology; bone neoplasms; diagnostic tests; tomography

CA-06831 **ROSEMOND, GEORGE P., Temple Univ. Hosp., Philadelphia, Pa.**
radiation therapy; lung neoplasms; x-rays; pneumonectomy; patient care; cooperative study

CA-06837 **PREISS, JOHN W., Univ. Delaware, Newark, Del.**
cell; globular proteins; ionizing radiation; light scattering; molecules..macromolecules; nucleases..deoxyribonuclease; nucleases..ribonucleases; radiation effects

CA-06840 **MALLAMS, JOHN T., Baylor Univ. Med. Cr., Dallas, Tex.**
cooperative study; lung neoplasms; radiation therapy; surgery..preoperative

CA-06881 **BLAU, MONTE, Health Research, Inc., Buffalo, N.Y.**
diagnostic tests; radioisotopes..selenium 75; selenomethionine; pancreas neoplasms; bone neoplasms; radioisotopes..fluorine 18; radioisotopes..barium 137m; brain neoplasms; radiation counters; instrumentation-methodology

CA-06935 **SCHLANT, ROBERT C., Sch. Med., Emory U., Atlanta, Ga.**
angiography; veins; liver; liver neoplasms; liver diseases; diagnostic tests; cancer chemotherapy; therapy evaluation; aminotransferases; hydrogenases

CA-06942 **KRAMER, SIMON, Jefferson Med. C., Philadelphia Pa.**
urinary tract disorders; renography; uterus neoplasms; carcinoma; ureteral obstruction; diagnostic tests; radioisotopes, iodine 131

CA-06972 **BENNINGHOFF, DAVID L., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.**
contrast media; lymph flow; lymph nodes; radiation effects

CA-07013 **PIZZARELLO, DONALD J., Bowman Gray Sch. Med., Winston-Salem, N.C.**
adenocarcinoma; breast neoplasms; carcinogens; hypothermia; 3-methylcholanthrene; radiation protection; radiation therapy

CA-07084 **GERSHON-COHEN, JACOB, Albert Einstein Med. Cr., Philadelphia, Pa.**
diagnostic tests; breast neoplasms; radiography; infrared rays; body temperature; skin; instrumentation; thermography, infrared

CA-07127 **MALLAMS, JOHN T., Baylor Univ. Med. Cr., Dallas, Tex.**
arterial infusions; blood peroteins..serum proteins; cander; enzymes; head neoplasms; hematopoiesis.. erythropoiesis; hydrogen peroxides; lipids..serum lipids; neck neoplasms; oncolysis; oxygen tension; primates.. monkeys; radiation therapy; radiolabeled iron; toxicology; uterus neoplasms, cervix neoplasms

CA-07148 **MACY, JOSIAH, Jr., Albert Einstein Col. Med., N.Y.C.**
breast neoplasms; computer programming; diagnostic tests; flying spot microscopy; instrumentation-methodology; radiography

CA-07186 **BATLEY, FRANK, Syracuse Mem. Hosp., Syracuse, N.Y.**
research programs; cooperative study; lung neoplasms; thoracic surgery; radiation therapy; therapy evaluation

CA-07197 **JENSIK, ROBERT J., Col. Med., Univ. Illinois, Chicago, Ill.**
radiation therapy; lung neoplasms; pneumonectomy; surgery..preoperative; x--rays; betatron; radioisotopes.. cobalt 60; cooperative study; respiratory system surgery

CA-07200 **MOUNTAIN, CLIFTON F., Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.**
cooperative study; lung neoplasms; radiation therapy; surgery; pneumonectomy

CA-07232 **JENSIK, ROBERT J., Presbyterian-St. Luke's Hosp., Chicago, Ill.**
cooperative study; lung neoplasms; radiation therapy; surgery..preoperative; pneumonectomy; radioisotopes.. cobalt 60; respiratory system surgery

CA-07314 **SIKOV, MELVIN R., Col. Med., Wayne State Univ., Detroit, Mich.**
diffusion chambers; ionizing radiation; lymphosarcoma; metastasis; radiation effects; transplantation; tritium

CA-07325 **PAUL, ROBERT E., Jr., New England Cr. Hosp., Boston, Mass.**
research programs; angiography; diagnostic tests; gastrointestinal neoplasms; therapy evaluation; cancer chemotherapy; catheterization

CA-07405 **EVANS, JOHN C., Albert Einstein Col. Med., N.Y.C.**
radiation effects; x-rays; neoplastic growth; squamous cell carcinoma; carcinogens; 20-methylcholanthrene; host-neoplasm; dosage

CA-07414 **HUGHES, RICHARD K., Sch. Med., Univ. California, Berkeley, Cal.**
cooperative study; lung neoplasms; surgery; radiation therapy; pneumonectomy

CA-07452 **WHEAT, MYRON W., Jr., Sch. Med., Univ. Florida, Gainesville, Fla.**
cooperative study; lung neoplasms; pneumonectomy; radiation therapy; therapy evaluation

CA-07540 **BOLAND, JOHN, Mount Sinai Hosp., N. Y. C.**
lung; radiation effects; x-rays; dosage; radiation sensitivity

CA-07581 **ADAMS, WILLIAM E., Univ. Chicago, Chicago, Ill.**
cooperative study; lung neoplasms; pneumonectomy; radiation therapy

CA-07845 **SCHWARTZ, SAMUEL, Univ. Hosp., Minneapolis, Minn.**
porphyrins; radiation sensitivity; radiation protection; x--rays; cancer chemotherapy; leukemia, mouse leukemia L--1210; Ehrlich ascites carcinoma; antineoplastic agents; proteins; enzymes; hydrogen--ion concentration

CA-07870 **LOFSTROM, JAMES E., Col. Med., Wayne State Univ., Detroit, Mich.**
neoplasms; radiation counters; instrumentation--methodology; radioisotopes, phosphorus 32; semiconduction; diagnostic tests; radiation effects

CA-07926 **CONCANNON, JOSEPH P., Allegheny General Hosp., Pittsburgh, Pa.**
pulmonary function; antibiotics, actinomycin D; ionizing radiation; radiation therapy; lung neoplasms; carcinoma

CA-07962 **CHANG, CHI H., Col. Phys., Surg., Columbia Univ., New York, N.Y.**
radiation therapy; oxygen inhalation therapy, hyperbaric oxygen therapy; glioblastoma multiforme; oxygen tension; radiation sensitivity; brain, cerebral cortex; blood flow; radiolabeled krypton; radiolabeled cobalt

CA-08037 **BINHAMMER, ROBERT T., Col. Med., Univ. Cincinnati, Cincinnati, Ohio**
radiation effects, whole body radiation; radiation therapy; carcinogenesis; breast neoplasms; gastrointestinal neoplasms; periarteritis nodosa; 4--(p(bis(2- chloroethyl)amino)phenyl)--butyric acid; streptomycin; aldosterone; kidney

CA-08096 **BOZZINI, MIGUEL A., Grady Mem. Hosp., Atlanta, Ga.**
research programs; cooperative study; lung neoplasms; pneumonectomy; radiation therapy; therapy evaluation

CA-08144 **JACKSON, KENNETH L., Sch. Med., Univ. Washington, Seattle, Wash.**
cell components, cell nucleus; spleen; thymus; radiation effects; binding; membrane permeability and transport; ionizing radiation; x--rays

CA-08150 **BICHSEL, HANS, Col. Letters, Arts, Sci., Univ. Southern California, Los Angeles, Cal.**
protons; radiation effects; instrumentation--methodology; linear accelerators; organic compounds; carbon; magnesium; aluminum; silicon; beryllium; computer analysis; radiation therapy

CA-08162 **BELLI, JAMES A., Univ. Texas, Southwestern Med. Sch., Dallas, Tex.**
leukemia, mouse leukemia P-388; radiation effects; neoplastic growth; cell culture; cell types; bioassay

CA-08163 **MARUYAMA, YOSH, Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
laboratory facilities; lymphosarcoma; radiation effects; neoplastic growth; antineoplastic agents

CA-08196 **BRENER, JACOB L., New York Med. Col., New York, N.Y.**
pituitary neoplasms; hyperplasia; ionizing radiation; radiation therapy; radiation effects; estrogens; radiolabeled iodine

CA-08231 **CONGER, ALAN D., Temple Univ. Med. Cr., Philadelphia, Pa.**
research programs; ionizing radiation; radiation effects; free radicals; reaction sites; temperature; hypoxia; genetics, chromosomes; deoxyribonucleic acid; neoplasms transplantations; seeds; cell components, cell nucleus; hydrogen sulfide; radiation protection; adsorption; cell division, mitosis

CA-08232 **KROHMER, JACK S., Roswell Park Mem. Inst., Buffalo, N.Y.**
radiation effects; bacteria, Escherichia coli; bacteria, Bacillus subtilis; growth, microorganisms; cell division, synchronous cell division; genetics, genes; genetics, chromosomes; deoxyribonucleic acid replication; genetic strains; enzymes; mutation; nucleic acids

CA-08256 **NEILSEN, IVAN R., Loma Linda Univ., Loma Linda, Cal.**
linear accelerator; radiation effects; cyclohexanes; cyclohexanols; cyclohexanones; cyclohexylamines; radiation counters; ionizing radiation; gamma rays; instrumentation--methodology; infrared rays

CA-08275 **DEL REGATO, J.A., Penrose Cancer Hosp., Colorado Springs, Colo.**
conferences; radiobiology; geographical sites, Colorado; travel; radiation therapy

CA-08301 **GOTTSCHALK, ALEXANDER, Univ. Chicago Hosp., Clinics, Chicago, Ill.**
radioisotopes; synthesis; instrumentation--methodology; linear accelerators; diagnostic tests; scintillation cameras, positron cameras; lung neoplasms; breast neoplasms; bone

CA-08318 **YATVIN, MILTON B., University Hosps., Madison, Wis.**
radiation effects; ionizing radiation; cell components, polysomes; neoplastic growth; neoplasms transplantation; neoplastic cells; stimulants

CA-08336 **NEWTON, THOMAS H., Univ. California Med. Cr., San Francisco, Cal.**
lung neoplasms; bronchogenic carcinoma; angiography, micro--angiography; veins, azygos vein; veins, pulmonary veins; veins, vena cava superior; arteries, pulmonary artery; arteries, bronchial arteries; surgery, preoperative; cancer chemotherapy; radiation therapy; capillary beds; therapy evaluation; diagnostic tests

CA-08493 **FORBES, P. DONALD, Barrington Col., Barrington, R.I.**
epidermoid carcinoma; radiation effects; ultraviolet rays; carcinogenesis; pigments; reaction sites; genetics; capillaries; melanin; skin; mutations

CA-09369 **HENSCHKE, ULRICH K., Sloan-Kettering Inst., New York, N.Y.**
radiation therapy; radioisotopes; implants; cancer

CA-09482 **BLOEDORN, FERNANDO G., Sch. Med., Univ. Maryland, Baltimore, Md.**
betatron; urinary bladder neoplasms; carcinoma; radiation therapy; gamma rays; x-ray; therapy evaluation; surgery; radiation sensitivity; dosage

CA-09712 **PALMER, WALTER L., Sch. Med., Univ. Chicago, Chicago, Ill.**
carcinogenesis; radiation effects; stomach neoplasms; statistics; longitudinal study

CA-09745 **SHERMAN, ALBERT I., Sch. Med., Washington Univ., St. Louis, Mo.**
uterus neoplasms, cervix neoplasms; betatron; radioisotopes, gold 198; radiation therapy; therapy evaluation; lymph nodes; lymphadenectomy; dosage; metastasis

CA-09747 **GRAHAM, JOHN B., Roswell Park Mem. Inst., Buffalo, N.Y.**
uterus neoplasms; radiation therapy; hysterectomy; therapy evaluation; longitudinal study; uterus, endometrium

DE-01778 **SPANGENBERG, HARRY D., Jr., Col. Dent., Ohio State Univ. Fdn., Columbus, Ohio**
dentistry; radiography; instrumentation; image intensifier fluoroscopy; radioisotopes

DE-01782 **HOECKER, FRANK E., Univ. Kansas, Lawrence, Kans.**
radioautography; radiation fallout; radioisotopes, strontium 90; radioisotopes, radium; bone

FF-00490 **MASSEY, LOUIS M., Jr., Cornell Univ., Geneva, N.Y.**
plants; polysaccharides; pectins; radiation effects

GM-07838 **PECKHAM, BEN M., Sch. Med., Univ. Wisconsin, Madison, Wis.**
gonadectomy; vagina; epithelium; tritium; cell division; estrogens; androgens; radiation effects

GM-09045 **OESTER, YVO T., Stritch Sch. Med., Loyola Univ., Chicago, Ill.**
body fluids; cancer; fractionation; hepatolenticular degeneration; ion; metal chelates; myocardial infarct; neutron activation spectrometry; pulmonary infarction; tissue

GM-10746 **ARONOW, SAUL, Massachusetts Gen. Hosp., Boston, Mass.**
instrumentation; brain; blood flow; computer analysis; scintillation cameras, positron cameras; scintillation scanners, positron scanners; biomedical engineering; brain lesions; intracranial pressure; electronic stimulators, radiofrequency controlled; monitoring; telemetering; diagnostic tests; radioisotopes

GM-11014 **HOWARD-FLANDERS, PAUL, Sch. Med., Yale Univ., New Haven, Conn.**
alkylating agents; deoxyribonucleic acid; genetics, recombination; mutagens; nucleic acids inhibitors; nucleoproteins; purine; pyrimidine; radiation effects; ultraviolet rays; viruses, bacteriophage; x-rays

GM-11173 **BROWNELL, GORDON L., Massachusetts Gen. Hosp., Boston, Mass.**
neutron activation analysis (unspecified); instrumentation--methodology; trace elements; iodine; blood proteins, plasma proteins; cesium; muscle; manganese; enzymes; copper; hepatolenticular degeneration; Parkinson's disease; radiolabeled

GM-11345 **CURBY, WILLIAM A., Sias Res. Lab., Brookline, Mass.**
radiation effects; x-rays; photosynthesis; dosage

GM-11554 **TEPLICK, J. GEORGE, Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.**
radiography; contrast media; liver; spleen; myelography; ethiodol; emulsions; stabilizers; toxicology; radiolabeled iodine

GM-11795 **KLEIN, DEANA T., Albert Einstein Col. Med., Bronx, N.Y.**
bacteria, Escherichia coli K12; radiation protection; deoxyribonucleic acid; genetics; radiation effects; mutations; ultraviolet rays

(contd)

LISTING OF GENERAL RESEARCH AREAS

RADIATION (CONTD)

GM-11890 ROUSSELOT, LOUIS M., St. Vincent's Hosp., N.Y.C.
instrumentation-methodology; diagnostic tests; infrared rays; radiography; photography; body temperature; skin; reaction sites; therapy evaluation; trauma

GM-11923 SHAPIRO, ROBERT, Hosp. St. Raphael, New Haven, Conn.
albumins; biliary tract diseases; binding; blood proteins.. serum proteins; contrast media; drugs; globulins; iodo heterocyclic compounds; proteins; radiography; radiolabeled; reaction sites

GM-12033 CALKINS, JOHN, Univ. Kentucky Med. Cr., Lexington, Ky.
amoeba; radiation effects; genetic strains; x-rays; ultraviolet rays; photosensitivity; photochemistry; genetics; cell division; cell death; computer analysis

GM-12458 FELSON, BENJAMIN, Cincinnati Gen. Hosp., Cincinnati, Ohio
diagnostic tests; computer analysis; mediastinum neoplasms; x--rays

GM-12519 RAPPOPORT, DONALD A., Univ. Texas Med. Br., Galveston, Tex.
glycosyltransferases..nucleoside : orthophosphate ribosyltransferase; radiation effects..whole body radiation; x--rays; dosage; enzyme inhibitors; reaction sites; functional groups; molecular rearrangement; blood cells..erythrocytes; blood cells.. leukocytes; bone marrow; blood..plasma; lymph; spleen; thymus

GM-12716 OVADIA, JACQUES, Michae Reese Hosp., Med. Cr., Chicago, Ill.
linear accelerators; ionizing radiation; radiation effects; instrumentation--methodology; free radicals; radiation sensitivity; sulfhydryls; amino acids; proteins; dyes

HD-00055 KETCHEL, MELVIN M., Worcester Fdn. Exptl. Biology, Inc, Shrewsbury, Mass.
radiation sensitivity; oviduct; uterus..endometrium; ovum; growth; estrus; x-rays; dosage; pregnancy.. pseudopregnancy; ovariectomy; progesterone; estrogens; implants; fertility

HD-00148 NASH, DONALD J., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
ionizing radiation; radiation effects; triethylene melamine; age; infant animals; genetic strains; genetics..hybrids; dosage; reproduction; mutations; growth; embryology

HD-01830 HULSE, FREDERICK S., Univ. Arizona, Tucson, Ariz.
bone..skull; anthropometry; anthropology; radiography; age; sex difference; statistics

HE-04834 LOWMAN, ROBERT M., Sch. Med., Yale Univ., New Haven, Conn.
angiography; coronary diseases; allylamines; arteriosclerosis; lipids..serum lipids; contrast media; instrumentation--methodology

HE-05174 RING, B. ALBERT, Mary Fletcher Hosp., Burlington, Vt.
autopsy; angiography; arteries..vertebral artery; blood circulation dynamics; cerebrovascular disorders; blood collateral circulation; neck, thorax; cerebroarterial occlusions extracranial

HE-05181 BONTE, FREDERICK J., Univ. Texas Southwestern Med. Sch., Dallas, Texas
instrumentation; magnetic recording system; scintillation counters; radioautography; blood vessels models

HE-06840 GREENLAW, ROBERT H., Univ. Kentucky Med. Cr., Lexington, Ky.
radiation effects; kidney; nephrectomy; radiography; kidney function; longitudinal study

HE-07832 BENDER, MERRILL A., Roswell Park Mem. Inst., Buffalo, N.Y.
heart diseases; radioisotopes; diagnostic tests; myocardial infarct; autofluorography; instrumentation-methodology; radiocardiography

HE-07962 JACOBSON, GEORGE, Univ. Southern California, Los Angeles, Cal.
arteries..pulmonary artery; catheterization; blood flow; pulmonary function; heart function; pulmonary heart disease; angiography

HE-07991 MEYERS, PHILLIP H., Sch. Med., Tulane Univ., New Orleans, La.
aerosols; binding; bronchography; contrast media; gases.. rare gases; lung..bronchi; mucous membrane; powders; pulmonary function

HE-08107 LUMB, RALPH F., Western New York Nuclear Res. Cr., Buffalo, N.Y.
diagnostic tests; fingerprint method; instrumentation-methodology; neutron activation analysis (unspecified); trace elements

HE-08221 SHAPIRO, BERNARD, Albert Einstein Med. Cr., Philadelphia, Pa.
blood cells..erythrocytes; membrane permeability; potassium; radiation effects; radiolabeled sodium; sodium

HE-08339 MEYERS, PHILLIP H., Tulane Univ. Med. Sch., New Orleans, La.
cardiovascular system; colloids..magnetic colloids; contrast media; iron; lymphatic system; magnetic field; radiography; radiolabeled iron

HE-08546 VIAMONTE, MANUEL, Jr., Sch. Med., Univ. Miami, Miami, Fla.
arteries..bronchial arteries; lung diseases; congenital heart disease; contrast media; diagnostic tests; drugs; catheterization; instrumentation; pulmonary circulation

HE-08608 MORI, PAUL A., Baptist Mem. Hosp., Jacksonville, Fla.
aging; diagnostic tests; diaphragm; pulmonary emphysema; pulmonary function

HE-08785 HILAL, SADEK K., Neurological Inst., N.Y.C.
blood circulation dynamics; heart; cerebrovascular system; kidney circulation; contrast media; angiography; radiography; densitometry

HE-08942 CONCANNON, JOSEPH P., Allegheny Gen. Hosp., Pittsburgh, Pa.
radiolabeled iodine; kidney function; ionizing radiation; radiation effects; radiation protection; nephritis; adrenal glands

HE-08998 LAUWERYNS, JOZEF-MARIE, Univ. Louvain, Louvain, Belgium
lung; bronchitis; blood vessels shunts; arteries.. bronchial arteries; arteries..pulmonary artery

HE-09032 HYDE, IVAN, Sch. Med., Yale Univ., New Haven, Conn.
cinefluorography; arteries..carotid arteries; arteries..vertebral artery; contrast media; angiography; instrumentation--methodology

HE-09110 DAVES, MARVIN L., Univ. Colorado Med. Cr., Denver, Colo.
radiography; diagnostic tests; pulmonary emphysema; pulmonary airway resistance; pulmonary hypertension; pulmonary heart disease; pulmonary function; atherosclerosis; heart valves prosthesis; heart enlargement..ventricular hypertrophy; heart function; hypoxia; atmospheric pressure

HE-09132 CHYNN, KUO Y., Cornell University Med. Col., New York, N.Y.
cerebroarterial occlusions and thrombosis; arteries ..cerebral arteries; diagnostic tests; instrumentation--methodology; angiography; blood circulation dynamics

HE-09173 WAX, SANDOR H., Sch. Med., Univ. Rochester, Rochester, N.Y.
renal hypertension; kidney..glomerular filtration; kidney circulation; renal failure; diagnostic tests; angiotensin; water--electrolyte balance; radiolabeled iodine

HE-09213 CARLSSON, ERIK, Sch. Med., Univ. California, San Francisco, Cal.
heart..ventricles; heart intracardiac volume; contrast media; biological models; silicone rubber; biomathematics; heart function; instrumentation--methodology

HE-09231 SUMMERS, ROY E., Jr., Allegheny Gen. Hosp., Pittsburgh, Pa.
kidney circulation; radiation effects; kidney function; renal arterial occlusions and stenosis; radiolabeled iodine; radiolabeled mercury; radiolabeled rubidium

HE-09269 BOGDONOFF, MAURICE L., Presbyterian-St. Luke's Hosp., Chicago, Ill.
pulmonary arterial occlusions; pulmonary infarction; cineradiography; pulmonary airway resistance; pulmonary function; diagnostic tests

HE-09438 CARLSSON, ERIK, San Francisco Med. Cr., Univ. California, San Francisco, Cal.
heart; heart valves; contrast media; heart function; heart intracardiac volume; valvular heart diseases; cardiovascular diseases; plastics; diagnostic tests

HE-09624 KAHN, PAUL C., Tufts-New England Med. Cr., Boston, Mass.
vasoactive agents; blood collateral circulation; blood circulation dynamics; diagnostic tests; arteries; contrast media; arterial infusions; arterial occlusions; carcinoma

HE-09992 OVERMAN, RICHARD R., Univ. Tennessee Med. Units, Memphis, Tenn.
x--rays; radiation effects..whole body radiation; cardiovascular system; hemorrhagic shock; radiation therapy; heart function; blood flow; blood cells..erythrocytes; electrolytes; primates monkeys

HE-09993 JOHNSON, PHILIP M., Presbyterian Hosp., New York, N.Y.
radiation therapy; radiation effects; pulmonary function; lung..alveolus; perfusion; pulmonary fibrosis; pulmonary ischemia and hypoxia; radioisotopes; beta rays; arteries..pulmonary artery

NB-01065 CLEMENTE, CARMINE D., Sch. Med., Univ. California, Los Angeles, Cal.
behavior; brain; electrophysiology; infants (animals); radiation effects

NB-02116 RUGH, ROBERTS, Col. Phys., Surg., Columbia Univ., N.Y.C.
brain; congenital abnormalities; cytology; embryology; nucleic acids; primates..monkeys; radiation effects

NB-02960 ZEMAN, WOLFGANG, Sch. Med., Indiana Univ., Indianapolis, Ind.
radiation effects; deuterons; microbeam radiation; brain lesions; dosage; nerves..neurons; blood vessels

NB-03568 THOMPSON, STEPHEN W., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
cerebrovascular system; blood flow; radiolabeled; radiation counters, electronic recording; instrumentation-methodology

NB-04761 GILMORE, SHIRLEY A., Sch. Med., Univ. Arkansas, Little Rock, Ark.
infants (animals)..newborn; ionizing radiation; nerves..myelination; nerves..neuroglia; radiation effects; regeneration; spinal cord..lumbosacral spinal cord

NB-05346 **BROWN, SIDNEY O., Col. Eng., Texas AM Univ., College Station, Tex.**
gamma rays; radiation effects..whole body radiation; sensory mechanisms; conditioning..avoidance; hearing ..auditory discrimination; vision tests..flicker fusion; nervous system..cutaneous sensory nerves; electrostimulus; perception

NB-05485 **WILLIAMS, JOHN L., Geisinger Med. Cr., Danville, Pa.**
radiation counters; diagnostic tests; brain disorders; cerebrovascular disorders; epilepsy; brain damage

NB-05543 **SCATLIFF, JAMES H., Sch. Med., Yale Univ., New Haven, Conn.**
ultrasonics; myelography; diagnostic tests; spinal cord lesions; arteries..vertebral artery; arteries..aorta; meninges..subarachnoid space; contrast media; arterial infusions; cerebrospinal fluid pressure

OH-00114 **BELL, ROBERT F., Sch. Med., Univ. Colorado Med. Cr., Denver, Colo.**
industrial medicine; radiation hazards; radiation effects; radioisotopes..uranium; EDTA; radioisotopes..lead 210; radioisotopes..radon

RH-00005 **HAYMOND, HERMAN R., Univ. So. California, Los Angeles, Cal.**
radiation effects; proteins; molecules ,macromolecules; binding; immunology..antigen-antibody reactions

RH-00021 **OSBORNE, JAMES W., Sch. Med., Univ. Iowa, Iowa City, Iowa**
adenocarcinoma; blood flow impedance; dosage; intestinal neoplasms; intesintes, small intestine; metastasis; radiation sensitivity; x-rays

RH-00024 **GOLDMAN, LEON, Cincinnati Gen. Hosp., Cincinnati, Ohio**
x--rays; radiation effects; genetics..chromosomes; radioisotopes..cobalt 60; skin; blood cells; cancer chemotherapy; radiomimetic agents

RH-00030 **PENDLETON, ROBERT C., Univ. Utah, Salt Lake City, Utah**
radiation fallout; radioisotopes..cesium 137; radioisotopes ..strontium 90; milk; water supply; soil; atmosphere; plants; ecology, human; geophysics; radiation effects.. whole body radiation

RH-00042 **STRAIN, WILLIAM H., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.**
radiation decontamination; metal chelates; amino acid

RH-00045 **SERBER, WILLIAM, Philadelphia Gen. Hosp., Philadelphia, Pa.**
radiation therapy; radioisotopes..cobalt 60; dosage; phantom models

RH-00047 **KUSCHNER, MARVIN, New York U., Med. Cr., N.Y.C.**
radiation effects; squamous cell carcinoma; lung neoplasms; radioisotopes..ruthenium 106; radioisotopes. rhodium 106; radioisotopes..technetium 99; radioisotopes..thallium 204; radioisotopes..phosphorus 32; radioisotopes..yttrium 90; radioisotopes.. plutonium 229

RH-00054 **WILLIAMS, EDWIN G., Florida State Bd. Hlth., Jacksonville, Fla.**
radioassay; ecology, human; atmosphere; water supply; soil; food contamination; geographical sites..Florida; radioisotopes; air sampling

RH-00065 **FURCHTGOTT, ERNEST, Col. Liberal Arts, Univ. Tennessee, Knoxville, Tenn.**
radiation effects; fetus; infant animals..newborn; behavior; emotional reactions; learning; longitudinal study; aging; visual perception; heart rate

RH-00075 **SELTSER, RAYMOND, Sch. Hygiene, Publ. Hlth., Johns Hopkins Univ., Baltimore, Md.**
age; cancer; mortality; physicians; radiation hazards; radiologists; survey

RH-00076 **ARMSTRONG, PHILIP B., Marine Biol. Lab., Woods Hole, Mass.**
ecology (animal); marine biology; radiation effects; radioisotopes; x-rays

RH-00085 **MORGAN, RUSSELL H., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.**
x--rays; radiography; dosage; fluoroscopy; magnetic recording system; statistics; multichannel analyzer; age

RH-00089 **WAGNER, RICHARD, Boston Floating Hosp., Boston, Mass.**
radiation protection; x--rays; ribonucleic acid; molecular weight; adenosine phosphates; glutathione; glucose phosphates; dehydrogenases..phosphogluconate dehydrogenase; blood cells..erythrocytes

RH-00095 **SLOBODIAN, EVELYN, New York Univ. Med. Cr., N.Y.C.**
cancer; gamma rays; molecular structure; nucleases.. ribonucleases; radiation effects

RH-00098 **PIHL, ALEXANDER, Norsk Hydro's Inst. Cancer Res., Montebello, Norway**
radiation sensitivity; sulfhydryls; deoxyribonucleic acid; proteins; radiation effects; thiols; disulfides; temperature; enzymes

RH-00099 **ROSSI, HARALD H., Col. Phys., Surg., Columbia Univ., N.Y.C.**
neutrons; radiation effects; spleen; thymus; germ cells; thymidine; tritium; bone marrow; 5-iododeoxyuridine; cataract

RH-00112 **ROSENTHAL, HAROLD L., Sch. Dent., Washington Univ., St. Louis, Mo.**
radioisotopes..strontium 90; dental structure..teeth; children; bone; survey

RH-00113 **RICHARDS, ALBERT G., Univ. Michigan, Ann Arbor, Mich.**
radiation protection; x-rays; dentistry..orthodontics; radiography; phantom models; dosage

RH-00116 **BURDETTE, WALTER J., Col. Med., Univ. Utah, Salt Lake City, Utah**
mutagens; antibiotics

RH-00124 **FRANKLIN, RALPH E., Ohio State Univ., Columbus, Ohio**
radiation hazards; radiation fallout; soil; plants; microorganisms; membrane permeability and transport; minerals; chelation

RH-00140 **MITTLER, SIDNEY, Col. Liberal Arts, Sci., Northern Illinois Univ., DeKalb, Ill.**
antimitotic agents; radiation protection; genetics.. genes; genetics..chromosomes; mutations; x-rays; colchicine; urethan; 8-azaguanine; 6-mercaptopurine; spermatogenesis

RH-00159 **ROHRER, ROBERT H., Sch. Med., Emory Univ., Atlanta, Ga.**
radiation counters; radiation hazards; radiation therapy; instrumentation-methodology; photoconduction

RH-00186 **DE HEVESY, GEORGE, Univ. Stockholm, Stockholm Va, Sweden**
blood cells..erythrocytes; hematopoiesis..erythropoiesis; hemoglobin; ionizing radiation; radiation effects..whole body radiation; radiolabeled carbon; radiolabeled iron

RH-00204 **SPERTI, GEORGE S., Inst. Divi Thomae, Cincinnati, Ohio**
electricity; bacteria..Staphylococcus aureus; bacteria.. Escherichia coli; fungi..yeasts; proteins; genetics; dosage; cell components..cell wall; instrumentation; radiation effects

RH-00206 **JOHNSTON, FRANCIS J., Sch. Arts, Sci., Univ. Georgia, Athens, Ga.**
radiation effects; suspensions (chemistry); colloids; solutions; electrodes; x--rays; surface properties; ionizing radiation

RH-00207 **GRIEM, MELVIN L., Sch. Med., Univ. Chicago, Chicago, Illinois**
radiation effects; fetus; children; longitudinal study; pregnancy

RH-00218 **TABACHNICK, JOSEPH, Albert Einstein Med. Cr., Philadelphia, Pa.**
radiation effects; beta rays; skin; vasodilation; endothelium permeability; bradykinin; amino acids; nucleases..ribonuclease; nucleases..deoxyribonuclease; flavonoids; polypeptides; histamine; serotonin; radiation protection; radioisotopes..iodine 125; blood vessels

RH-00239 **WILSON, BROTHER RAPHAEL, Univ. Notre Dame, Notre Dame, Ind.**
germ free; x-rays; radiation effects; hematopoietic tissues; radiation protection; chemotherapy; radiation sensitivity; infectious diseases

RH-00243 **JOFTES, DAVID L., New England Deaconess Hosp., Boston, Mass.**
radioisotopes..carbon 14; radiation effects; gonads; cell division..meiosis; cell division..mitosis; genetics

RH-00245 **BURNS, CHARLES H., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.**
ionizing radiation; radiation effects; flavin mononucleotides; luminescence..bioluminescence; radiation sensitivity; oxygen tension; reduction

RH-00246 **CONTE, FRANK P., Sch. Sci., Oregon State Univ., Corvallis, Ore.**
marine biology; fish; radiation effects; life cycle; water--electrolyte balance; x--rays; osmotic pressure; migratory animals

RH-00253 **KING, JOHN S., Col. Eng., Univ. Michigan, Ann Arbor, Mich.**
radiation protection; neutrons; instrumentation-methodology; biomathematics

RH-00268 **GOEPP, ROBERT A., Walter G. Zoller Mem. Dent. Clinic, Chicago, Ill.**
radiation protection; drugs; tongue; radiation effects; morbidity; AET; cysteamine; o--aminoproriophenone

RH-00272 **ROTBLAT, JOSEPH, St. Bartholomew's Hosp. Med. Col., Charterhouse Sq., London, England**
radiation effects..whole body radiation; radiation sensitivity; x-rays; age; criteria; mortality; hypoxia; oxygen tension; lung; ovary; radiation protection; neoplasms

RH-00276 **SHAPIRO, JACOB, Sch.Pub. Hlth., Harvard Univ., Boston, Mass.**
radiation hazards; radiation fallout; aerosols; dust; air pollution; radioisotopes; surface properties; diffusion; particle size; respiratory system

RH-00298 **ALBERT, ROY E., New York Univ. Med. Cr., N.Y.C.**
radiation effects; radiation therapy; x-rays; skin diseases; head; dermatomycoses; carcinogenesis; longitudinal study; children

RH-00299 **MORRILL, SONIA D., New York Univ. Med. Cr., N.Y.C.**
radiation effects; radiation therapy; x-rays; genetics..chromosomes; skin diseases; dermatomycoses; children; head; longitudinal study

RH-00304 **MONESI, VALERIO, Lab. Radiobiologia Animale, C.N.E.N., Roma, Italy**
ionizing radiation; radiation sensitivity; cell division.. mitosis; cell division..meiosis; ribonucleic acid; deoxyribonucleic acid; proteins; genetics..chromosomes; x--rays; dosage; testis

(contd)

RADIATION (CONTD)

RH-00307 **MIETTINEN, JORMA K.**, Univ. Helsinki, Helsinki, Finland
geographical sites..Finland; radiation fallout; radioisotopes..cesium 137; inland fresh waters; fish; water pollution

RH-00308 **FINKLE, RAYMOND D.**, California Col. Med., Los Angeles, Cal.
radiation effects; radiation hazards; reaction sites; metabolites; radiolabeled carbon; gastrointestinal system

RH-00312 **BEAM, CARL A.**, Grad. Sch., Brooklyn Col., Brooklyn, N.Y.
radiation sensitivity; cell division; radioisotopes; deoxyribonucleic acid; ribonucleic acid; proteins; genetics, genes; fungi, yeasts

RH-00316 **MASSHIKO, CHIRA**, Okayama Univ. Med. Sch., Okayama, Japan
radioisotopes..radon; radioisotopes..uranium; radioisotopes ..thorium 228; ionizing radiation; radiation effects; environment; body composition; food contamination; water supply; neoplasms; congenital abnormalities; longitudinal study; geographical sites..Asia; survey

RH-00318 **WOOLES, WALLACE R.**, Med. Col. Virginia, Richmond, Va.
hyperlipemia; radiation effects..whole body radiation; radiation protection; x--rays; antioxidants; triglycerides; ketone bodies; tocopherol; DPPD; AET

RH-00319 **GOLUBOFF, BERNARD**, Albert Einstein Med. Cr., Philadelphia, Pa.
x--rays; radiation effects; radiation protection drugs; kidney function; sulfhydryls; (2--mercaptoethyl) guanidine; preventive medicine

RH-00321 **KUNTZ, ROBERT R.**, Sch. Arts, Sci., Univ. Missouri, Columbia, Mo.
radiation protection; free radicals; chemical structure--biological activity; radiation effects; functional groups; thiols; cysteine; cysteamine; cystine; glycine; proteins

RH-00325 **SPEIDEL, CARL C.**, Sch. Med., Univ. Virginia, Charlottesville, Va.
radiation effects; cell division..mitosis; germ cells; zygote cleavage; reproduction; colchicine; caffeine; deoxyribonucleic acid; radiomimetic agents; radiation sensitivity

RH-00326 **BRAYER, FRANKLIN T.**, Georgetown Univ. Med. Cr., Wahington, D.C.
ionizing radiation; x-rays; dosage; threshold; radiation effects..whole body radiation; blood.. plasma; thyroid gland; radiolabeled iodine

RH-00334 **YOUNG, ELLEN A.**, Univ. Arkansas Med. Cr., Little Rock, Ark.
radiation effect; x--rays; dosage; radioisotopes.. cobalt 60; membrane permeability and transport; amino acids; proteins; nucleic acids; oxidative phosphorylation; bacteria..Lactobacillus casei; ascites tumors

RH-00340 **EPP, EDWARD R.**, Sloan-Kettering Inst. for Cancer Res., N.Y.C.
ionizing radiation; radiation sensitivity; oxygen; anaerobiosis; cells; bacteria, Shigella sonnei

RH-00347 **McQUADE, HENRY A.**, Sch. Med., Univ. Missouri, Columbia, Mo.
radiation effects; tritium; deoxyribonucleic acid; genetics..chromosomes; seeds; mutations; thymidine; cell division..mitosis; plants..roots; cell components.. cell nucleus

RH-00357 **WEENS, H. STEPHEN**, Sch. Med., Emory Univ., Atlanta, Ga.
fluoroscopy; radiation effects; x--rays; reaction sites; diagnostic tests; phantom models

RH-00358 **CHIPAULT, JACQUES R.**, Hormel Inst., Austin, Minn.
high energy particles (unspecified); radiation effects; lipids; saturated fats; unsaturated fats; gamma rays; glycerides; phospholipids; lipoproteins; plasmalogens; microorganisms; antioxidants; food preservation; radiation hazards

RH-00361 **FINE, SAMUEL**, Col. Eng., Northeastern Univ., Boston, Mass.
lasers; radiation effects; radiation hazards; instrumentation--methodology; optics; neoplasms; tissue; melanin; hemoglobin; blood cells; proteins; mucopolysaccharides; microorganisms; solid state (chemistry); liquid state (chemistry); gels

RH-00366 **WELLER, RICHARD I.**, Franklin and Marshall Col., Lancaster, Pa.
alpha particles; beta rays; gamma rays; ecology, human; dosage; instrumentation

RH-00367 **CASTER, WILLIAM O.**, Sch. Home Ec., Univ. Georgia, Athens, Ga.
radiation effects; x-rays; reaction sites; deoxyribonucleic acid; neuroendocrine systems; intestinal absorption; heart function; water-electrolyte balance

RESEARCH CAREER AWARD TRAINING COMMITTEE

AM-06566 **STJERNHOLM, RUNE L.**, Sch. Med., Western Reserve Univ., Cleveland, Ohio
transcarboxylases; carboxylases..propionyl carboxylase; isomerases..metylmalonyl isomerase; propionic acid; amino acid sequence; biotin; fatty acids; enzymes substrate complex; blood cells..leukocytes; leukemia; pernicious anemia

MH-02251 **MOONEY, WILLIAM E.**, Western Psy. Inst., Pittsburgh, Pa.
ego; sensory deprivation; perception; psychometrics

MH-05339 **MEYEROWITZ, SANFORD**, Univ. Rochester, Rochester, N.Y.
psychosomatic medicine; arthritis..rheumatoid arthritis; personality; stress; perception; psychometrics; proteases..pepsinogen; blood..serum; twins

MH-05550 **KRON, REUBEN E.**, Univ. Pennsylvania Hosp., Philadelphia, Pa.
infant human; sucking behavior; instrumentation; maternal behavior; personality; longitudinal study

MH-05619 **MENDELSON, JACK H.**, Massachusetts Gen. Hosp., Boston, Mass.
alcoholism; alcoholic beverages; ethanol; conditioning..avoidance; conditioning..operant conditioning; rewards and nonrewards; implants; cannulation; stomach; behavior

MH-06010 **BLOCK, JAMES D.**, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
autonomic reflexes; electrostimulus; instrumentation; nervous system..autonomic nervous system; photostimulus; psychophysiology; threshold

MH-06025 **SPENCE, DONALD P.**, Grad. Sch. Arts, Sci., New York Univ., N.Y.C.
awareness; memory-retention; psychoanalysis; reaction time; thinking

MH-06034 **WOLFF, PETER H.**, Sch. Med., Harvard Univ., Boston, Mass.
child development; emotional reactions

MH-06065 **GROSSER, BERNARD I.**, Sch. Med., Univ. Utah, Salt Lake City, Utah
brain; brain neoplasms; corticosterone; hydrocortisone; nervous system; progesterone; psychotropic drugs; species; stress; radiolabeled carbon

MH-06162 **PINE, FRED**, Grad. Sch. Arts, Sci., Res. Fdn. State Univ. New York, Albany, N.Y.
behavior; child development; defense mechanisms; ego; family; interests; longitudinal study; psychological tests; socioculture; thinking

MH-06163 **FRIEDMAN, STANFORD B.**, Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
stress; neoplasms; infectious diseases

MH-06350 **UHLENHUTH, EBERHARD H.**, Sch. Med., Johns Hopkins Hosp., Baltimore, Md.
anxiety; psychiatric patients; children; family; psychotherapy; social status

MH-06362 **KEELER, MARTIN H.**, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
psychotomimetic drugs; electroretinography; vision tests; schizophrenia; depression

MH-06383 **ROFFWARG, HOWARD P.**, New York State Psychiatric Inst., New York, N.Y.
dreams; sleep; psychophysiology; electroencephalography; infant human..newborn; psychotropic drugs; age; psychiatric patients; eye movement; imagery

MH-06384 **DULIT, EVERETT P.**, Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
thinking; gifted children; children..adolescence

MH-06391 **BOROWITZ, GENE H.**, Sch. Med., Univ. Illinois, Chicago, Ill.
anxiety; ego; epinephrine; psychiatric patients; psychophysiology; stress

MH-06452 **HOOKER, EVELYN**, Grad. Sch., Univ. California, Los Angeles, Cal.
social psychology; homosexuality; personality; social adjustment; community; social organization

MH-06872 **LEVY, EDWIN Z.**, Menninger Fdn., Topeka, Kans.
consultation; psychotherapy; children; hospital patients; mental disorders; emotional disturbance

MH-06994 **LUSTMAN, SEYMOUR L.**, Child Study Cr., Yale Univ., New Haven, Conn.
personality; child development; sensory mechanisms; behavior

MH-07075 **FREEDMAN, DANIEL X.**, Sch. Med., Yale Univ., New Haven, Conn.
brain; drugs tolerance; LSD; perception; personality; psychophysiology; reserpine; thinking

MH-07424 **GILL, MERTON M.**, Downstate New York Med. Sch., State Univ. New York, Albany, N.Y.
concept; drive; ego; mental health; psychoanalysis; psychotherapy

MH-07425 **KING, LUCY J.**, Renard Hosp., St. Louis, Mo.
brain; enzymes substrate; electrostimulus; drugs

MH-07434 **ARONSON, HARRIET J.**, Sch. Med., Univ. Maryland, Baltimore, Md.
psychiatric patients; interviews recording; therapy

MH-07806 **LUPARELLO, THOMAS J.**, Cornell Med. Cr., New York, N.Y.
brain..hypothalamus; brain lesions; electrostimulus; anaphylaxis; asthma

MH-08244 **BOTWINICK, JACK**, Duke Univ. Med. Cr., Durham, N.C.
aging; cardiovascular diseases; mental processes; psychological tests; psychology; psychophysiology; reaction time; sex difference

MH-08376 **TOBACH, ETHEL, American Museum of Natural History, New York, N.Y.**
emotional reactions; stress; growth; phylogeny; infant animals; intestinal motility

MH-08675 **STEWART, MARK A., Sch. Med., Washington Univ., St. Louis, Mo.**
glycolysis; nervous system..peripheral nerves; nervous system..optic nerve; nervous system..vagus nerve; brain; fetus; infant animals; hypoxia; nerves degeneration; hyperkinesia; children; longitudinal study; therapy evaluation; thioridazine; ribonucleic acid; fructose

MH-08686 **AUERBACH, ARTHUR H., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
psychotherapy; physician-patient relationship; behavior rating scales; therapy evaluation

MH-08714 **OFFER, DANIEL, Michael Reese Hosp., Chicago, Ill.**
children..adolescence; behavioral adjustment; stress; conflict; interviews; psychological tests; self--concept; family..parent--child

MH-08715 **HARTMANN, ERNEST L., Sch. Med., Tufts Univ., Boston, Mass.**
sleep; dreams; psychiatric patients; longitudinal study; psychophysiology; eye movement

MH-08731 **LUBOW, ROBERT E., Sch. Agr., Educ., North Carolina State Col., Raleigh, N.C.**
visual perception; learning; discrimination; conditioning.. operant conditioning; form perception; infant animals.. newborn; eye movement; experience

MH-08734 **EICHLER, MYRON F., Sch. Med., Univ. Maryland, Baltimore, Md.**
brain; ammonia intoxication; verbal behavior; voice; body movement; psychometrics; interviews recording; adults

MH-08745 **BELL, NORMAN W., McLean Hosp., Belmont, Mass.**
geographical sites..Netherlands; psychiatric patients; patient care; therapy evaluation; family; interpersonal behavior; medical personnel; socioenvironment; attitude

MH-08806 **CURTIS, GEORGE C., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
psychoanalysis; 17--hydroxycorticosteroids; chlorpromazine; adrenal cortex hormones; adrenal medulla hormones; emotional reactions; stress; diurnal variation

MH-10071 **ROTHENBERG, ALBERT, Sch. Med., Yale Univ., New Haven, Conn.**
mental processes; creativity; semantics..language; criteria; interviews

MH-10072 **ROSSI, ALICE S., Univ. Chicago, Chicago, Ill.**
family; socioenvironment..urban areas; social status; siblings; sex difference; role; career; interviews; publications..literature survey; publications..monograph; religion

MH-10087 **TOMKINS, SILVAN, City Univ. New York, New York, N.Y.**
personality; emotional reactions; cognition; facial expression; fear; laughter; pleasure--displeasure; anger; anxiety; depression; psychological tests; motivation; experimental psychology; adults; children; interviews

MH-10088 **BAKELAND, FREDERICK, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.**
depression; spatial perception; psychiatric patients; orientation; cognition; sleep; dreams; learning.. association learning; eye movements; D--amphetamine; ritalin; narcolepsy; psychological tests; arousal

MH-10122 **BLACKER, KAY H., Langley Porter Neuropsychiatric Inst., San Francisco, Cal.**
depression; psychiatric patients; therapy evaluation; amitriptyline; cognition; behavior rating scales; intelligence tests; Bender-Gestalt test

MH-10486 **BRADY, JOHN P., Hosp. of Univ. Pennsylvania, Philadelphia, Pa.**
hypnosis; hallucinations; optical illusions; autonomic reflexes; nystagmus; eye movements; verbal behavior; potentials..evoked potentials; volunteers

MH-10996 **STUDT, ELLIOT, Univ. California, Berkeley, Cal.**
rehabilitation; criminology; social adjustment; social service; administration

MH-11073 **WOLITZKY, DAVID L., Grad. Sch. Arts, Sci., New York Univ., New York, N.Y.**
cognition; drive; ego; conflict; sex behavior; hunger; aggression; personality; performance; psychological tests

MH-11085 **WARREN, ROLAND L., Brandeis Univ., Waltham, Mass.**
community; landing planning and development; socio-environment; ecology, human; interviews; travel; social change

MH-11091 **SCHIAVI, RAUL C., Col. Med., Cornell Univ., New York, N.Y.**
neuroendocrine systems; sex behavior; infant animals..newborn; estradiol; testosterone; brain..hypothalamus; gonadotropins; pituitary gland; ACTH; sex difference; nervous system.. central nervous system

MH-11109 **AGHAJANIAN, GEORGE K., Sch. Med., Yale Univ., New Haven, Conn.**
psychotropic drugs; cell components..ribosomes; cell components..microsomes; cell components..mitochondria; cell components..endoplasmic reticulum; nerve endings; phosphatases..nucleoside diphosphatase

MH-11383 **LEVINSON, DANIEL J., Sch. Med., Harvard Univ., Boston, Mass.**
publications..books; personality; social psychology; ego; self--organization; administrative personnel; drive; authority; role

HD-00355 **BERLOW, STANLEY, Sch. Med., Milwaukee Children's Hosp., Milwaukee, Wis.**
nervous system disorders; infant human; mental retardation; diagnostic tests; therapy; amino acids

MH-04808 **SATTERFIELD, JAMES H., Washington Univ., St. Louis, Mo.**
brain..cerebral cortex; brain..regulatory centers; electrophysiology; sensory mechanisms; behavior; psychiatric patients; alertness--vigilance; hypnosis; hallucinations

NB-04408 **GASTEIGER, EDGAR L., Jr., Col. Vet. Med., Cornell Univ., Ithaca, N.Y.**
spinal electrography; polygraphy; computer analysis; ionizing radiation; radiation effects; nervous system

SCIENTIFIC PUBLICATIONS

AP-00176 **LEVINE, BENJAMIN S., 3312 Northampton St., NW, Washington, D.C.**
air pollution; industrial wastes; occupational diseases; publications..literature survey; geographical sites.. USSR; translations; children; growth inhibitors; ultraviolet rays; solar radiation; ionizing radiation; monitoring

DE-02262 **ORLAND, FRANK J., Univ. Chicago, Chicago, Ill.**
publications..journal; dental research

GM-09166 **ORR, RICHARD H., Inst. Advancement Med. Communication, Bethesda, Md.**
cooperative study; information exchange; medical research; medical practice; documentation systems; communication; computer programming; conferences; publications

GM-11941 **HOLZWORTH, JEAN, Angell Mem. Animal Hosp., Boston, Mass.**
publications..book; cats; veterinary medicine; morbidity; surgery

GM-12871 **ONCLEY, J. LAWRENCE, Univ. Michigan, Ann Arbor, Mich.**
publications..journal; conferences

HD-01063 **WOERDEMAN, MARTINUS W., Excerpta Medica Fdn., Amsterdam, The Netherlands**
publications..literature survey; embryology; genetics; congenital abnormalities

NB-05006 **CORSON, SAMUEL A., Col. Med., Ohio State Univ., Columbus, Ohio**
publications..literature survey; geographical sites..USSR; translations; psychophysiology; psychopharmacology; conditioning; hypnosis; kidney function; cardiovascular system; nervous system; brain..cerebral cortex; gastrointestinal system

WP-00305 **LEVINE, BENJAMIN S., 3312 Northampton St., Washington, D.C.**
translations; publications..literature survey; geographical sites..USSR; water supply; waste disposal; waste treatment; industrial wastes; water basins protection

SPECIAL PROGRAM-PROJECT

AC-00101 **WOLF, ROBERT A., Cornell Aeronautical Lab., Buffalo, N.Y.**
automobile accidents; criteria; injury; safety equipment

CH-00044 **GETTING, VLADO A., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.**
criteria; public health; medical services; attitudes; behavior; community; education; communication; survey

ES-00001 **VAUGHAN, HENRY F., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.**
administration; conferences; environment; information exchange; public health; research programs; sanitation

WP-00311 **AYERS, JOHN C., Univ. Michigan, Ann Arbor, Mich.**
aquatic animals; atmosphere; ecology, animal; ecology, plants; geographical sites..Great Lakes region; geophysics; inland fresh waters; plankton; research programs; water flow; water pollution; water quality; water supply

SURGERY

AI-00524 **COHN, ISIDORE, Jr., Sch. Med., Louisiana State Univ., New Orleans, La.**
anesthesia; antibiotics; antisepsis; bacteria; body fluids; germ-free; intestinal obstruction; nutrition; peritoneum; peritonitis; toxicology

AI-01600 **COHN, ISIDORE, Jr., Sch. Med., Louisiana State Univ., New Orleans, La.**
gastrointestinal surgery; gastrointestinal neoplasms; metastasis; antisepsis; antineoplastic agents; kanamycin; antibiotics; peritonitis; peritoneal cavity; surgery..preoperative; surgery..postoperative; Brown--Pearce carcinoma; longitudinal study; germ--free; Ehrlich ascites carcinoma; neoplastic growth

AI-04064 **HOWARD, JOHN M., Hahnemann Med. Col., Philadelphia, Pennsylvania**
shock; septicemia; bacteria; toxins; therapy evaluation; steroids; norepinephrine

AI-05529 **SEGAL, MAURICE S., Boston City Hosp., Boston, Mass.**
asthma; carotid body; nerves..denervation; pulmonary function; therapy evaluation

(contd)

SURGERY (CONTD)

AI-05874 GONZALEZ, LUIS L., V.A. Hosp., Cincinnati Gen. Hosp., Cincinnati, Ohio
antibiotics; bacteremia; blood vessels prosthesis; cardiovascular surgery; chemotherapy; septicemia; staphylococcal infections; surgical sutures

AI-06558 ALTEMEIER, WILLIAM A., Cincinnati Gen. Hosp., Cincinnati, Ohio
intestinal resection; surgery..preoperative; antibiotics..neomycin; sulfathalidine; therapy evaluation; bacteria..enterobacteria; hospitals infections; Brown--Pearce carcinoma; colitis; septicemia; peritonitis; metastasis

AM-00369 FISHER, BERNARD, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
arteries; blood flow; blood vessel shunts..portacaval shunt; liver; liver cirrhosis; regeneration

AM-00708 WELCH, C. STUART, Albany Med. Cr. Hosp., Albany, N.Y.
liver diseases; portal hypertension; blood vessels shunts..portacaval shunt; hypothermia; liver transplantation; transplantation..autotransplantation; therapy; perfusion

AM-00732 BONFIGLIO, MICHAEL, Col. Med., Univ. Iowa, Iowa City, Iowa
blood cells..leukocytes; bone; immunology; lymphatic tissue; skin; transplantation..homotransplantation

AM-01221 DOUBILET, HENRY, Sch. Med., New York Univ., N.Y.C.
alcohols; amino acid; bile acids and salts; Brunner glands; cholecystokinin; fats; enterogastrone; enterokinin; intestines..duodenum; liver; molecular structure; pancreatic diseases; pancreatic juice; secretin

AM-01253 DRUCKER, WILLIAM R., Western Reserve Univ., Cleveland, Ohio
hemorrhagic shock; carbohydrates; blood volume; adrenal glands; muscle; proteins; intestines

AM-01339 RAY, ROBERT D., Presby-St. Luke's Hosp., Chicago, Ill.
bone; bone..acellular bone; bone resorption; growth; histocompatibility; hormones; implants; injury..wound healing; transplantation..autotransplantation; transplantation.. homotransplantation

AM-01425 BROOKS, JOHN R., Sch. Med., Harvard Univ., Boston, Mass.
blood cells..lymphocytes; endocrine glands transplantation; immunology..autoimmunology; parathyroid glands transplantation; pancreas transplantation; 6--mercaptopurine; transplantation..homotransplantation; transplantation immunology

AM-01577 NYHUS, LLOYD M., Univ. Washington, Seattle, Wash.
liver; liver circulation

AM-01978 SIFFERT, ROBERT S., Mount Sinai Hosp., New York, N.Y.
bone..epiphyses; bone transplantation; bone..metaphysis; growth; osteogenesis; injuries..wound healing; orthopedics; injuries

AM-02012 HILLMAN, J. WILLIAM, Vanderbilt Univ. Hosp., Nashville, Tenn.
bone..epiphyses; growth; nutrition; radiation effects; tensile strength; hormones; proteases..papain; injury

AM-02150 WAGENSTEEN, OWEN H., Univ. Minnesota Hosps., Minneapolis, Minn.
adrenal glands; blood flow; brain..hypothalamus; drugs; gastric freezing; pancreas; peptic ulcer; sex hormones; stomach..gastric juice; stress

AM-02187 NYHUS, LLOYD M., Sch. Med., Univ. Washington, Seattle, Wash.
gastric pouch; hypoglycemia; insulin; nervous system; neuroendocrine systems; primates..monkeys; stomach.. gastric juice; stress

AM-02329 HINSHAW, DAVID B., Sch. Med., Loma Linda Univ., Los Angeles, Cal.
blood flow; dumping syndrome; gastrectomy; heart function

AM-02372 WOODWARD, EDWARD R., Col. Med., Univ. Florida, Gainesville, Fla.
brain..hypothalamus; electrodes; gastric pouch; neurosecretion; proteases..pepsinogen; stomach..gastric juice; stomach motility

AM-02406 BAILEY, ROBERT W., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
joints; growth; nutrition; cartilage; bone..epiphyses; tetracycline; neoplasms; calcification; bone transplantation; injuries..wound healing

AM-02579 RHINELANDER, FREDERIC W., Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
bone transplantation; implants; bone fractures; angiography; injuries..wound healing

AM-02581 PRUDDEN, JOHN F., Col. Phys., Surg., Columbia Univ., New York, N.Y.
injury..wound healing; cartilage transplantation; tissue culture; trachea; continuous flow electrophoresis; cartilage

AM-02646 O'SULLIVAN, WARD D., Misericordia Hosp., Philadelphia, Pa.
blood vessels shunt..portacaval shunt; gastrectomy; gastric pouch; gastrin; liver; stomach..gastric juice; ulcers

AM-02657 MOORE, FRANCIS D., Peter Bent Brigham Hosp., Boston, Mass.
adrenal cortex hormones; blood volume; body composition; bone; bone fractures; breast neoplasms; diuresis; hemorrhage; injury; metastasis; patient care..convalescence; salts; sex hormones; surgery..postoperative; tissue

AM-02722 HAYES, MARK A., Sch. Med., Yale Univ., New Haven, Conn.
thyroid gland; injury; adrenal glands

AM-02723 HOWARD, JOHN M., Hahnemann Med. Col., Philadelphia, Pa.
pancreatitis; therapy; radiolabeled iodine; phenylalanine; radiography

AM-02785 MULHOLLAND, JOHN H., New York Univ. Med. Cr., N.Y.C.
pancreas; lymph; lipids; intestinal absorption; liver cirrhosis; ascites; esophageal varices; electrolytes; proteins; heart failure..congestive heart failure; immunology; transplantation

AM-02789 O'DONOGHUE, DON H., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
ligaments..joint ligaments; orthopedics; injury..wound healing; joints..knee

AM-02919 GOLDSTEIN, LOUIS A., Univ. Rochester Med. Cr., Rochester, N.Y.
scoliosis; cephalometry; surgery..postoperative; longitudinal study; spinal fusion; dental disease

AM-03077 JURKIEWICZ, M.J., Univ. Florida, Gainesville, Fla.
age; anemia; injury..burns; injury..wound healing; proteins; skin; transplantation

AM-03361 LILLEHEI, RICHARD C., Univ. Minnesota Hosps., Minneapolis, Minn.
intestines..small intestine; bone marrow transplantation; spleen tissue (cells) transplantation; transplantation.. homotransplantation; freezing; radiation effects.. radiation; homologous wasting disease; gastrointestinal system transplantation

AM-03497 SHAPIRA, DANIEL, Albert Einstein Col. Med., New York, N.Y.
stomach..gastric juice; gastric pouch; peptic ulcer; enzymes

AM-03604 MASSIE, WILLIAM K., Univ. Kentucky, Lexington, Ky.
blood cells..erythrocytes; blood vessels revascularization; bone..femur; bone fractures; bone necrosis; injury; longitudinal study; radiolabeled phosphorus

AM-03672 HIATT, NATHAN, Cedars-Sinai Med. Cr., Los Angeles, Cal.
intestines..small intestine; intestinal obstruction; carbohydrases..amylase; food; starch; pancreatectomy; tissue; enzyme inhibitors; reticuloendothelial blockade; thorotrast; liver

AM-03835 KRAMISH, DAVID, Sch. Med., Univ. Colorado, Denver, Colo.
transplantation..homotransplantation; micropore filters; micropore diffusion chamber technique; transplantation.. autotransplantation; instrumentation-methodology; endocrine glands transplantation

AM-03935 GRENIER, JACQUES F., Clinique Chirurgicale B, Hosp. Civil, Strasbourg, France
fats; proteins; intestinal absorption; radiolabeled iodine; blood..plasma; gastrointestinal surgery; diagnostic tests; gastrointestinal disorders; radiolabeled carbon; triolein; gastrointestinal transplantation

AM-04010 HARKINS, HENRY N., Sch. Med., Univ. Washington, Seattle, Wash.
peptic ulcer; gastrin; vagotomy; nervous system..vagus nerve; stomach..gastric juice; hormones

AM-04104 PERNOKAS, LOUIS N., Boston City Hosp., Boston, Mass.
injury..wound healing; collagen; glutathione; granuloma; radiation effects; scurvy; cytotoxicity; hormones; proteases..cathepsins; connective tissue; blood coagulation, plasmin; choline esterases

AM-04158 RAFFUCCI, FRANCISCO L., Sch. Med., Univ. Puerto Rico, San Juan, P.R.
liver ischemia and hypoxia; hypothermia; arterial occlusions; transplantation..autotransplantation; transplantation..homotransplantation; liver function; ascites; kidney..artificial kidney; surgery; ammonia intoxication; hepatic coma; blood vessel shunts..portacaval shunt; perfusion, ex--vivo; arteries..hepatic artery; liver tissue (cells) transplantation

AM-04178 DRAGSTEDT, LESTER R., Col. Med., Univ. Florida, Gainesville, Fla.
gastric pouch; gastrin; gastrin inhibitors; mucous membrane; nervous system..vagus nerve; peptic ulcer; stomach..gastric juice; vagotomy

AM-04186 FROST, HAROLD M., Henry Ford Hosp., Detroit, Mich.
skeleton; cell age; bone resorption; osteogenesis; osteoporosis; osteomalacia; osteoclasts; osteoblasts; therapy; hormones; growth; population dynamics. cell

AM-04209 FARMER, DOUGLAS A., Massachusetts Mem. Hosp., Boston, Mass.
diaphragmatic hernia; gastrointestinal surgery; peptic ulcer; stomach neoplasms

AM-04265 SIGEL, BERNARD, Woman's Med. Col., Philadelphia, Pa.
transplantation..autotransplantation; liver tissue (cells) transplantation; growth factors; regeneration

AM-04577 ZIMMERMAN, BERNARD, West Virginia Univ. Med. Cr., Morgantown, W.Va.
aldosterone; ACTH; water-electrolyte balance; vasopressin; veins..adrenal vein

AM-04611 BARONOFSKY, IVAN D., Mercy Hosp., San Diego, Cal.
aldosterone; ascites; blood volume; hypertension (systemic); liver function; proteases..renin; water-electrolyte balance

AM-04644 BARNETT, WILLIAM O., Sch. Med., Univ. Mississippi, Jackson, Miss.
shock; intestinal obstruction; intestines..ileum; penicillin; kanamycin; dextran; cortisone; phenoxybenzamine; heparin; blood; therapy; transplantation immunology; gastrointestinal transplantation

AM-04825 **RHOADS, JONATHAN E., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
nutrition; liver; blood flow; cholesterol; gallbladder; gallstones; phospholipids; bile; colloids; choline; isozymes; computer; instrumentation; heart function; hypothermia; acidosis; radioisotopes

AM-04868 **WRAY, JAMES B., State Univ. New York, Syracuses; N.Y.**
blood circulation dynamics; blood flow; bone fractures; electrolytes; fatty acids; glucose; heart function; injury.. wound healing; kidney; osteoporosis; proteins

AM-04952 **SINGLETON, A.O., Jr., Univ. Texas Med. Branch, Galveston, Tex.**
intestinal absorption; lipids; proteins; intestinal resection; intestines..jejunum reversal; intestinal motility; intestines..ileum reversal

AM-04993 **ROBINSON, ROBERT A., Johns Hopkins Hosp., Baltimore, Md.**
bone deformities; drugs; hormones; injury..wound healing; osteogenesis

AM-05049 **COLEMAN, SHERMAN S., Sch. Med., Univ. Utah, Salt Lake City, Utah**
spinal fusion; radiography; bone..spine; growth; infant animals

AM-05122 **HARDY, JAMES D., Sch. Med., Univ. Mississippi, Jackson, Miss.**
gastrointestinal system; liver; adrenal cortex hormones; catecholamines; blood vessels shunts.. portacaval shunt; blood proteins..plasma proteins; regeneration; brain; gastric pouch; portal hypertension; hepatectomy; stomach, gastric juice; enzymes

AM-05214 **WHITE, RICHARD K., Orthopedic Assn., Allentown, Pa.**
bone fractures; injury..wound healing; bone..femur

AM-05258 **POSTLETHWAIT, RAYMOND W., Veterans Admin. Hosp., Durham, N.C.**
injury..wound healing; collagen; connective tissue; radiolabeled carbon; proline; ascorbic acid

AM-05259 **GILDER, HELENA, Col. Med., Cornell Univ., New York, N.Y.**
nitrogen; fats; amino acids; nutrition; patient care; surgery..postoperative; body weight; starvation

AM-05264 **CHASSIN, JAMESON L., Booth Mem. Hosp., Flushing, N.Y.**
peritonitis; body water; body fluids; inulin; indicator dilution (concentration) techniques; intestinal obstruction; pancreatitis; isotope dilution (concentration) techniques

AM-05284 **ABRAMSON, ARTHUR S., Albert Einstein College Med., Bronx, N. Y.**
electromyography; cystometry..electronic cystometry; urinary bladder sphincter; urinary bladder obstruction; urinary incontinence; urinary tract disorders; intestines.. rectal sphincters; urinary bladder neurogenic; urinary bladder puncture; urinary bladder..intravesical pressure

AM-05523 **BRASHEAR, H.R., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
bone..epiphyses; bone necrosis; growth; blood supply

AM-05569 **VARCO, RICHARD L., Univ. Minnesota Hosp., Minneapolis, Minn.**
antimetabolites; transplantation..homotransplantation; 6--mercaptopurine; skin transplantation; kidney transplantation; hematology; transplantation immunology

AM-05616 **SILEN, WILLIAM, Univ. California Med. Cr., San Francisco, Cal.**
histamine; stomach..gastric juice; liver cirrhosis; blood vessel shunts..portacaval shunt; pancreatic function; pancreatectomy; gastric pouch; adrenal glands

AM-05621 **EISEMAN, BEN, Univ. Kentucky Med. Sch., Lexington, Ky.**
perfusion, ex--vivo; glucose; glycogen; liver; lactates; oxygen; blood flow; insulin; glucagon; epinephrine; adenosine triphosphate; fats; phospholipids; adrenal glands; liver diseases

AM-05689 **WANGENSTEEN, OWEN H., Univ. Minnesota Hosp., Minneapolis, Minn.**
peptic ulcer; stomach..gastric juice; hypothermia; therapy; gastric hypothermia

AM-05817 **ANDERSON, KIRK J., Sch. Med., Univ. Washington, Seattle, Wash.**
transplantation; surface properties; bone; osteogenesis; tetracycline; radiolabeled; immunology..antigens; blood vessels revascularization; transparent chmaber technique

AM-05833 **HUTCHINSON, CRANFORD, Daniel Baugh Inst. Anatomy, Jefferson Med. Col., Philadelphia, Pa.**
bone..metaphysis; growth; growth factors

AM-05882 **WADDELL, WILLIAM R., Univ. Colorado Med. Cr., Denver, Colo.**
gastrin; immunology; conjugates; immunofluorescence; chemical structure

AM-05920 **McILRATH, DONALD C., Mayo Assn., Rochester, Minn.**
stomach..gastric juice; pancreatic ducts; pancreatic fistula; blood vessels shunts..portacaval shunt; veins.. portal veins; stomach..gastric juice inhibitors; acid; intestines..duodenum; secretin; glucagon

AM-06075 **HERNDON, CHARLES H., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
bone transplantation; osteogenesis; transplantation.. homotransplantation; immunology; genetic strains; osteogenic sarcoma; hyperbaric oxygenation

AM-06118 **GRIMSON, KEITH S., Sch. Med., Duke Univ., Durham, N.C.**
instrumentation; intestines..duodenum; stomach..pylorus; diagnostic tests; intestinal motility; peptic ulcer; pain; emesis; contrast media; pancreas; cinefluorography

AM-06277 **SMITH, BLANCA, Children's Hosp., Columbus, Ohio**
fetus; liver; autopsy; hypoxia; perfusion; blood; age; transplantation..homotransplantation; bile ducts atresia, congenital; liver function

AM-06281 **WISHAM, LAWRENCE H., Mt. Sinai Hosp., New York, N.Y.**
bone; joints; radiolabeled sodium; blood flow; heat; exercise; osteoporosis; bone necrosis..ischemic bone necrosis; vasoactive agents; sympathectomy; immobilization; traction; bone stress

AM-06282 **KRIPPAEHNE, WILLIAM W., Sch. Med., Univ. Oregon, Portland, Ore.**
collagen; transplantation..autotransplantation; implants; connective tissue; intestines; mucous membrane; carrageenan; granuloma; lipids; transplantation..homotransplantation; growth

AM-06283 **STARZL, THOMAS E., Sch. Med., Univ. Colorado, Denver, Colo.**
bacteria..enterobacteria; steatorrhea; therapy; intestinal absorption; gastrectomy

AM-06344 **STARZL, THOMAS E., Sch. Med., Univ. Colorado, Denver, Colo.**
carbohydrates; blood vessels shunts..portacaval shunt; lipids; transplantation..homotransplantation; transplantation; transplantation immunology

AM-06352 **SCHUSTER, MARVIN M., Baltimore City Hospitals, Baltimore, Md.**
age; chemotherapy; gastrointestinal disorders; gastrointestinal surgery; instrumentation-methodology; intestinal motility; intestines..anal sphincter; intestines.. colon; neuromuscular disorders; reflex

AM-06385 **THAL, ALAN P., Sch. Med., Wayne State Univ., Detroit, Mich.**
pancreas; radiolabeled; cell components..microsomes; enzymes; proteins; dietary deficiency; pancreatic diseases; amino acid; vasoactive agents; gastrointestinal disorders; hyperosmolarity; hemagglutination; toxins; necrosis; shock; blood pressure; blood vessels resistance; sympatholytic agents; intestinal obstruction

AM-06484 **WOODHOUSE, CHARLES F., Percy Research Fdn., Chicago, Ill.**
oximetry; bone fractures; bone..femur; bone necrosis; instrumentation; ischemia

AM-06485 **PIERCE, JAMES M., Jr., College Med., Wayne State Univ., Detroit, Michigan**
urinary bladder obstructions; urinary bladder..intravesical pressure; urethra..intraurethral pressure; hydrodynamics; instrumentation-methodology; children

AM-06595 **NEALON, THOMAS F., JR., Jefferson Med. Col., Philadelphia, Pa.**
ammonia intoxication; extracorporeal circulation; hepatic coma; instrumentation-methodology; ion exchange resins; therapy

AM-06827 **KINDRED, ROBERT G., D.C. Gen. Hosp., Washington, D.C.**
bone resorption; blood flow; transplantation..homotransplantation; bone transplantation; age

AM-06887 **SANDERS, RICHARD J., Univ. Colorado Med. Cr., Denver, Colo.**
vagotomy; lithium; atropine; sympatholytic agents; parasympatholytic agents; histamine; gastric pouch; diagnostic tests; therapy; peptic ulcer

AM-06888 **EISEMAN, BEN, Univ. Kentucky Med. Cr., Lexington, Ky.**
gallstones; bile pigments; cholesterol; dyes; radiolabeled iodine; cholelithotomy; diagnostic tests

AM-06905 **THOMPSON, IAN M., Sch. Med., Univ. Missouri, Columbia, Mo.**
transplantation..autotransplantation; transplantation.. homotransplantation; kidney..renal cortex; kidney.. renal medulla; ureteral restoration; histocompatibility; kidney transplantation

AM-06951 **HYATT, G.W., Georgetown Univ. Med. Cr., Washington, D.C.**
bone..femur; bone stress; injury..wound healing; instrumentation-methodology; tensile strength; transplantation..autotransplantation; transplantation.. homotransplantation; ultrasonics

AM-06956 **RUSH, BENJAMIN F., Jr., Sch. Med., Univ. Kentucky, Lexington, Ky.**
renal failure; therapy; diet; water--electrolyte balance; muscle; hyperosmolarity; kidney..artificial kidney; shock; trauma

AM-06972 **SCOTT, H. WILLIAM, Jr., Sch. Med., Vanderbilt Univ., Nashville, Tenn.**
gastric hypothermia; stomach..gastric juice; gastrointestinal motility; blood flow; pancreas; liver; adrenal glands; kidney; heart; hematopoietic tissues; nutrition; body weight; hemorrhagic shock; gastrectomy; surgery.. postoperative

AM-07055 **RUSSELL, PAUL S., Massachusetts Gen. Hosp., Boston, Mass.**
homologous wasting disease; radiation effects..whole body radiation; cortisone; immunology..antigens; fetus; pregnancy..placenta

AM-07075 **MANNIX, HENRY, Jr., Med. Col., Cornell Univ., New York, N.Y.**
stomach..gastric juice; gastric pouch; nerves..innervation; endotoxins; pyelonephritis; bacteria..Escherichia coli; ureteral obstruction; hydrochloric acid; nerves..denervation

(contd)

SURGERY (CONTD)

AM-07192 PERRY, JACQUELINE, Rancho Los Amigos Hosp., Downey, Cal.
muscle; arm; hand; limbs movement

AM-07277 SCHNEIDER, MONROE, Jewish Chronic Disease Hosp., Brooklyn, N.Y.
proteases..papain; cytolysis; cartilage; chondroitin sulfate; proteases..collagenase

AM-07315 ORLOFF, MARSHALL J., Harbor Gen. Hosp., Torrance, Cal.
aldosterone; aldosterone inhibitors; ascites; blood pressure; blood volume; blood vessels shunts..portacaval shunt; body fluids; diuretics; electrolytes; kidney function; liver cirrhosis; perfusion; portal hypertension; veins.. hepatic veins; venous occlusion

AM-07380 FRENCH, DAVID M., Col. Med., Howard Univ., Washington, D.C.
transplantation..autotransplantation; bone..ribs; bone.. tibia; osteogenesis; tissue preservation; blood vessels revascularization; barium sulfate

AM-07408 DETERLING, RALPH A., Jr., Boston City Hosp., Boston, Mass.
transplantation, autotransplantation; thyroid gland transplantation; adrenal glands transplantation; kidney transplantation; limbs transplantation; perfusion; cold; dextran; molecular weight; oxygen; hemoglobin; blood..serum; radiolabeled iodine; 17-hydroxycorticosteroids; tissue preservation; criteria

AM-07511 ORLOFF, MARSHALL J., Harbor Gen. Hosp., Torrance, Cal.
liver cirrhosis; ammonia intoxication; shock

AM-07515 NUSBAUM, MOREYE, Grad. Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
contrast media; diagnostic tests; gastrointestinal disorders; gastrointestinal system; inflammation; lymph flow; lymphangiography; neoplasms

AM-07544 SOROFF, HARRY S., New England Center Hosp., Boston, Mass.
age; antimetabolites; diet; growth hormones; injury.. burns; proteins; water-electrolyte balance

AM-07545 MINDELL, EUGENE R., Sch. Med., State Univ. New York, Buffalo, N.Y.
arteries; body movement; bone fractures; chondrogenesis; chondroitin sulfate; connective tissue; immobilization; injury..wound healing; joints; mechanical pressure

AM-07550 NICKEL, VERNON L., Los Amigos Hosp., Downey, Cal.
orthopedics; limbs..artificial limbs; instrumentation; servo-mechanisms; implants

AM-07551 ANDERSON, LEWIS D., Univ. Tennessee Med. Units, Memphis, Tenn.
bone fractures; injury..wound healing; orthopedics; fracture compression plates

AM-07589 KINNEY, JOHN M., Columbia-Presbyterian Med. Ctr., New York, N.Y.
amino acid; basal metabolism; bicarbonates; calorimetry; carbon dioxide; electronic recording; glucose; instrumentation-methodology; nutrition; oxygen consumption; surgery..post-operative; trauma

AM-07611 CALANDRUCCIO, R.A., Sch. Med., Univ. Tennessee, Memphis, Tenn.
arthritis; blood supply; body position; bone..femur; bone fractures; bone necrosis; cartilage; diagnostic tests; longitudinal study; radiolabeled phosphorus

AM-07626 BECKER, ROBERT O., Vet. Administration Hosp., Syracuse, N.Y.
bone fractures; bone stress; electromagnetic fields; injury..wound healing; osteogenesis; potentials; semiconduction

AM-07632 GOVAN, DUNCAN E., Stanford Med. Ctr., Palo Alto, Cal.
b-diethylamino-ethyl xanthene-9-carboxylate methobromide; bethanechol chloride; hexamethonium compounds; instrumentation-methodology; kidney function; morphine; nerves..denervation; trauma; ureteral obstruction; ureteral reflux; urinary bladder..intravesical pressure; urinary tract disorders; urinary tract motility

AM-07646 PRICE, JOHN B., Col. Phys., Surg., Columbia Univ., N.Y.C.
blood circulation dynamics; blood vessels shunts.. portacaval shunts; capillary beds; diffusion; epinephrine; liver circulation; liver cirrhosis; malabsorption syndromes; norepinephrine; serotonin; vasopressin; viscera

AM-07686 LIPPMAN, HARVEY N., Cedars of Lebanon Hosp., Los Angeles, Cal.
gastric hypothermia; gastroenterostomy; injury.. wound healing; instrumentation-methodology; mucous membrane; stomach; trauma

AM-07750 LANDOR, JOHN H., Univ. Missouri Med. Ctr., Columbia, Mo.
diet; esophagus; fats; gastrointestinal system; lymph; nervous system..vagus nerve; proteins; secretory mechanisms; stimulus; stomach..gastric juice; stomach.. gastric juice inhibitors

AM-07759 BYRNE, JOHN J., Boston City Hosp., Boston, Mass.
bacteria; intestinal obstruction; intestines..duodenum; neomycin; pancreatitis; penicillin; taxonomy; tetracycline

AM-07785 BOYARSKY, SAUL, Duke Univ. Med. Ctr., Durham, N.C.
hydronephrosis; injury..scars; kidney function; ureter; ureteral motility; ureteral restoration; ureteropelvic junction obstruction; urine

AM-07822 BASSETT, C., ANDREW L., Col. Phys., Surg., Columbia Univ., N.Y.C.
bone; bone stress; cell migration; collagen; electrical fields; growth; instrumentation-methodology; monitoring; osteogenesis; potentials

AM-07862 SCHUSTER, MARVIN M., Baltimore City Hosps., Baltimore, Md.
autonomic reflexes; intestines..anal sphincters; muscle contraction; neuromuscular disorders; somatic reflexes

AM-07961 THOMPSON, JAMES C., Harbor Gen. Hosp., Torrance, Cal.
blood vessels shunts..portacaval shunt; gastric pouch; histamine; nerves..denervation; parasympatholytic agents; parasympathomimetic agents; stomach..gastric juice; stomach..gastric juice inhibitors

AM-07966 CRAMER, LESTER M., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
transplantation immunology; transplantation..homotransplantation; transplantation..autotransplantation; transplantation rejection; immunity.. autoimmunity; immunological tests; steroids; antimetabolites; passive sensitization; lymph nodes; spleen

AM-07967 ZINTEL, HAROLD A., St. Luke's Hosp., N.Y.C.
esophagitis; esophagus stenosis; injury..burns; lye; penicillin; prednisolone; steroids; streptomycin; therapy evaluation

AM-07971 SAMELLAS, WILLIAM, Veterans Admin. Hosp., Brooklyn, N.Y.
ureteral motility; ions..cation; hypokalemia

AM-08006 DE PALMA, ANTHONY F., Jefferson Med. Col., Philadelphia, Pa.
cartilage; thymidine; tritium; joints..knee; regeneration; orthopedics

AM-08052 BOYD, THOMAS F., Boston City Hosp., Boston, Mass.
esophagus prosthesis; plastics; regeneration

AM-08055 ANDERSON, MARION C., Sch. Med., Northwestern Univ., Chicago, Ill.
arterial occlusions; arteries..celiac artery; blood flow; blood vessels shunts..arteriovenous shunt; peptic ulcer; arteriosclerosis; gastrointestinal system; liver

AM-08088 HALASZ, NICHOLAS A., Harbor Gen. Hosp., Torrance, Cal.
freeze-drying; freezing; glycerin; instrumentation-methodology; polymers; propylene oxide; tissue preservation; transplantation

AM-08089 BOYCE, WILLIAM H., Bowman Gray Sch. Med., Winston-Salem, N.C.
instrumentation-methodology; paralysis; paraplegia; urinary bladder; urinary bladder stimulator

AM-08090 SCHOENBERG, HARRY W., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
instrumentation-methodology; neuromuscular disorders; paraplegia; parasympatholytic agents; parasympathomimetic agents; rehabilitation; urinary bladder stimulator; urinary incontinence; urination

AM-08094 GRIFFITH, CHARLES A., Sch. Med., Univ. Washington, Seattle, Wash.
nervous system..vagus nerve; nerves..innervation; vagotomy; gastrectomy; viscera; gallbladder; pancreatic function; intestinal motility; stomach..gastric juice

AM-08120 KARK, ALLAN E., The Mount Sinai Hospital, N.Y.C.
gastroesophageal reflux; diaphragmatic hernia; surgery, postoperative; esophagus, cardiac sphincter; esophagus motility; esophagus surgery

AM-08136 NUSBAUM, MOREYE, Grad. Hosp., Philadelphia, Pa.
angiography; arteries..abdominal arteries; catherization; diagnostic tests; gastrointestinal hemorrhage; methylglucamine diatrizoate; surgery..preoperative

AM-08192 ROSS, GILBERT, Jr., Univ. Missouri Med. Ctr., Columbia, Mo.
cell migration; muscle..smooth muscle; regeneration; tritium; ureter; urinary bladder

AM-08292 BOYARSKY, SAUL, Duke Univ. Med. Ctr., Durham, N. C.
cystoscopy; hydronephrosis; injury..scars; kidney; kidney disorders; kidney function; ureter; ureteral motility; ureteral obstruction; ureteropelvic junction obstruction; urination

AM-08370 MALETTE, WILLIAM G., Univ. Kentucky, Med. Ctr., Lexington, Ky.
kidney transplantation; transplantation rejection; kidney; perfusion; ribonucleic acid; tissue preservation

AM-08457 HERBSMAN, HORACE, Downstate Med. Ctr., State Univ. New York, Brooklyn, N.Y.
diabetes; injury..wound healing; bone fractures; bone stress

AM-08565 BEAL, JOHN M., Sch. Med., Northwestern Univ., Chicago, Ill.
gastric pouch; peptic ulcer; stomach..gastric juice; injury; endotoxins; cortisone; secretory mechanisms; gastrointestinal surgery

AM-08614 HUNTER, JAMES M., Jefferson Med. Col., Philadelphia, Pa.
prosthesis; tendons; bone; orthopedics; synovial membranes; tensile strength; implants; silicone rubber; injuries; fabrics; plastics; blood vessels restoration

AM-08618 PIERPONT, HOWARD C., George Washington Univ. Hosp., Washington, D.C.
transplantation..organ transplantation; kidney transplantation; tissue preservation; instrumentation-methodology; resuscitation; infant human; fetus; infant animals

AM-08622 KING, LOWELL R., Children's Mem. Hosp., Chicago, Ill.
urinary tract disorders; ureteral reflux; ureteral restoration; kidney function

AM-08673 **ARTZ, CURTIS P., Univ. Texas Med. Br., Galveston, Tex.**
gastric hypothermia; peptic ulcer; therapy evaluation; injury..wound healing; hydrochloric acid; stomach.. gastric juice; intestines..duodenum

AM-08675 **GUSTILO, RAMON B., Minnesota Hosp., Minneapolis, Minn.**
electrostimulus; injuries..wound healing; bone fractures; bone stress; implants

AM-08689 **AKESON, WAYNE H., Sch. Med., Univ. Washington, Seattle, Wash.**
bone..hip; surface properties; collagen; mucopolysaccharides; proline; chondroitin sulfate; surgery..postoperative; arthritis; radiolabeled sulfur; radiolabeled carbon; orthopedics

AM-08694 **BYRNE, JOHN J., Boston City Hosp., Boston, Mass.**
intestines; necrosis; heart failure..congestive heart failure; vasoactive agents; blood coagulation.. anticoagulants; antibiotics; sympathomimetic agents; sympathectomy; digitalis; toxicology; arteries.. superior mesenteric artery; gastrointestinal disorders

AM-08788 **BAUE, ARTHUR E., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
esophagus..cardiac sphincter; gastroesophageal reflux; esophagitis; gastrointestinal surgery; diaphragmatic hernia

AM-08813 **FRIEDENBERG, ZACHARY B., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
bone..tibia; age; growth; injuries..wound healing; electrophysiology

AM-08879 **HAYS, DANIEL M., Childrens Hosp., Los Angeles, Cal.**
liver cirhosis; liver diseases; regeneration; age; cell division; liver cells; tissue culture; population dynamics, cell; therapy evaluation; hepatectomy

AM-08893 **TIPTON, CHARLES M., Col. Med., State Univ. Iowa, Iowa City, Iowa**
exercise; ligaments..joint ligaments; joints..knee; injuries..wound healing; immobilization; tensile strength

AM-08894 **FABER, J. JOB, University Hosp., Univ. Washington, Seattle, Wash.**
joints..knee; synovial fluid; diffusion; joint diseases; molecular frictional properties; dyes; perfusion

AM-08973 **DePALMA, ANTHONY F., Jefferson Med. Col., Philadelphia, Pa.**
bone..cervical vertebrae; intervertebral disk; nervous system..spinal nerves; arteries..vertebral artery; joints; sex difference; age; stress; spinal fusion; diagnostic tests

AM-09101 **HABIB, HENRY N., Kansas City Gen. Hosp., Kansas City, Mo.**
electrostimulus; instrumentation-methodology; urinary incontinence; urinary bladder..intravesical pressure; paraplegia; urinary bladder stimulator

AM-09103 **MAHONEY, STEPHEN A., University Hosps., Cleveland, Ohio**
uremia; injuries..wound healing; collagen; tensile strength; transplatnation relection; tritium; fibroblasts

AM-09108 **WEEKS, PAUL M., Sch. Med., Univ. Kentucky, Lexington, Ky.**
injuries..wound healing; injuries..scars; collagen; elasticity; surgery..postoperative; tendons; joints; collagen diseases

AM-09136 **JACOB, STANLEY W., Sch. Med., Univ. Oregon, Portland, Ore.**
kidney; heart; cold; atmospheric pressure; transplantation ..organ transolantation; tissue preservation

AM-09169 **NYHUS, LLOYD M., Univ. Washington, Seattle, Wash.**
iron; food; stomach absorption; intestinal absorption; stomach..gastric juice; stomach; reaction sites; intestines..duodenum; gastrectomy; surgery..postoperative; anemia; gastric pouch

AM-09174 **BALLINGER, WALTER F., II, Johns Hopkins Hosp., Baltimore, Md.**
autonomic agents; barium; intestinal absorption; intestines..small intestine; lipids; nerves..denervation; nerves degeneration; transplantation..autotransplantation; gastrointestinal transplantation

AM-09401 **MOODY, FRANK G., Univ. California Med. Cr., San Francisco, Cal.**
perfusion; stomach..gastric juice; stomach.. gastric juice inhibitors; secretory mechanisms; mucous membrane; blood flow; acid--base equilibrium; glucose; histamine; oxygen consumption; 2,4--dinitrophenol; fluoroacetates; iodacetates

AM-09427 **VAN'T RIET, BARTHOLOMEUS, Med. Col. Virginia, Richmond, Va.**
dyes; urinary calculi; chemotherapy; crystallization; crystal growth inhibitors

AM-09595 **THORBJARNARSON, BJORN, Cornell Univ. Med. Col., New York, N.Y.**
stomach..gastric juice; secretory mechanisms; gastric pouch; genetic strains

AM-09603 **ZUIDEMA, GEORGE D., Johns Hopkins Hosp., Baltimore, Md.**
liver cirrhosis; portal hypertension; liver function; nucleic acids; regeneration; biliary tract diseases; primates..Macaca mulatta

CA-01915 **THOMAS, COLIN G., Jr., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
thyroid neoplasms; thyrotropin; thyrotropin inhibitors; triiodothyronine; radiolabeled iodine; thyroid hormones; selenomethionine; goiter; adenoma; parathyroid neoplasms; urinary bladder neoplasms; gallstones; rose bengal; radiolabeled iodine

CA-02282 **GILCHRIST, RICHARD K., Presby-St. Luke's Hosp., Chicago, Ill.**
colloids..magnetic colloids; growth; heat; lymph nodes neoplasms; magnetic field; metastasis; neoplastic growth; therapy

CA-03292 **FRIESEN, STANLEY R., Univ. Kansas, Sch. Med., Kansas City, Kansas**
bile ducts, Oddi's sphincter; cardiospasm; dumping syndrome; enzymes; exfoliative cytology; ganglion (nervous system)..autonomic ganglia; gastrointestinal disorders; gastrointestinal neoplasms; megacolon congenital idiopathic; neoplastic cells; neuromuscular junction; pyloric stenosis; spasms

CA-03817 **VANAMEE, PARKER, Sloan-Kettering Inst., New York, N.Y.**
electrolytes; neoplasms; ammonia; gastrectomy; vasopressin; kidney function; radiation therapy; uric acid; heart function; glucose tolerance; lymphoma; leukemia; lung neoplasms; gastric hypothermia

CA-03842 **CHAPMAN, WARREN H., Sch. Med., Univ. Washington, Seattle, Wash.**
carcinogens; foreign body; urinary bladder neoplasms; carcinogenesis; screening

CA-04138 **PRESSMAN, JOEL J., Sch. Med., Univ. California, Los Angeles, Cal.**
head neoplasms; hyperkeratosis (skin); larynx neoplasms; leukoplakia; lymph flow; lymphatic collateral circulation; metastasis; neck neoplasms; plastics; polyethylene; radiation effects; radiation therapy; trachea

CA-04423 **RAND, ROBERT W., Univ. California Med. Cr., Los Angeles, Cal.**
breast neoplasms; carcinoma; therapy; hypophysectomy; hypophysectomy..radiohypophysectomy; water-electrolyte balance; radioisotopes..yttrium 90; pituitary gland; cell types; endocrine glands; metastasis

CA-05049 **ROCHLIN, DONALD B., Univ. California, Los Angeles, Cal.**
perfusion; antineoplastic agents; radiolabeled phosphorus; binding; thio--TEPA; oxygen tension; hyperbaric oxygenation; cancer chemotherapy; collagen diseases; chemotherapy; alkylating agents; antibiotics; antimetabolites

CA-05413 **BLUMENSTOCK, DAVID A., Mary Imogene Bassett Hosp., Cooperstown, N.Y.**
transplantation..homotransplantation; lung transplantation; transplantation immunology; antimetabolites; radiation effects..whole body radiation; bone marrow; nerves.. denervation

CA-05538 **CREEVY, C.D., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
urinary diversion; intestines..ileum; urinary bladder neoplasms; transplantation; skin; mucous membrane; urinary bladder; intestinal absorption; intestinal motility; electrolytes; hydrochloric acid; acidosis

CA-05813 **HINSHAW, DAVID B., Sch. Med., Loma Linda Univ., Los Angeles, Cal.**
nucleases..ribonucleases; nucleic acids; transplantation.. homotransplantation; transplantation rejection

CA-06118 **SAKO, KUMAO, Health Research, Inc., Buffalo, N.Y.**
neoplastic cells injury..surgical wounds; head neoplasms; neck neoplasms; lymph; blood; longitudinal study

CA-06145 **MEALEY, JOHN, Jr., Indiana Univ. Med. Cr., Indianapolis, Ind.**
cancer chemotherapy; glioblastoma multiforme; arterial infusions; vincaleukoblastine; antineoplastic agents; brain neoplasms; cerebrospinal fluid pressure; methotrexate; leurocristine

CA-06246 **BEATTIE, EDWARD J., Jr., Presbyterian-St. Luke's Hosp., Chicago, Ill.**
transplantation..autotransplantation; trachea; carcinogenesis; 9,10-dimethyl-1,2-benzanthracene; bronchogenic carcinoma

CA-06260 **NEVINNY-STICKEL, HANS B., Children's Cancer Res. Fdn., Boston, Mass.**
breast neoplasms; mastectomy; ovariectomy; metastasis; therapy; hormones; enzymes; oxidoreductases..lactate dehydrogenase; gonadotropins; estrogens

CA-06765 **BLUMENSTOCK, DAVID A., Mary Imogene Bassett Hosp., Copperstown, N.Y.**
tissue preservation; heart valves; skin; heart; lung; kidney; freezing; glycerin; dimethyl sulfoxide; transplantation..organ transplantation

CA-07221 **JACOB, STANLEY W., Univ. Oregon Med. Sch., Portland, Ore.**
bone marrow transplantation; kidney transplantation

CA-07254 **ROUSSELOT, LOUIS M., St. Vincent's Hosp., N.Y.C.**
alkylating agents; arterial infusions; blood flow; blood pressure; cancer chemotherapy; dyes; liver circulation; liver neoplasms; metastasis; venous infusions; venous occlusions; Walker carcinoma 256

CA-09673 **CORDONNIER, JUSTIN J., Washington Univ., St. Louis, Mo.**
carcinoma; cystectomy; longitudinal study; therapy evaluation; urinary bladder neoplasms; urinary bladder restoration

(contd)

SURGERY (CONTD)

CD-00042 VAN BERGEN, F.H., Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
artificial respiration; criteria; gas tensions; instrumentation-methodology; lung; respirators

DE-01313 MATTHEWS, JAMES L., Col. Dent., Baylor Univ., Dallas, Tex.
bone; radiolabeled calcium; radiolabeled phosphorus; transplantation

GM-02926 BARKER, HAROLD G., Sch. Med., Columbia Univ., N.Y.C.
liver cirrhosis; ascites; blood vessels shunts..portacaval shunt; water-electrolyte balance; endocrine glands; liver function tests; intestinal absorption; radiolabeled iodine; vagotomy; gastric pouch; stomach..gastric juice; ammonia

GM-03123 BOCANEGRA, MANUEL, Hosp. del Nino, Lima, Peru
injury..burns; children; adults; therapy evaluation; blood..plasma; blood..serum; saline solutions; antibiotics; vasopressin; renal failure; amine

GM-04554 CONWAY, HERBERT, Col. Med., Cornell Univ., N.Y.C.
cell; cytoxicity; epsilon-aminocaproic acid; hypersensitivity; keloids; neoplasms; organ culture; skin; tissue culture; transparent chamber technique; transplantation..homotransplantation; transplantation rejection; xanthomatosis

GM-04778 VARCO, RICHARD L., Univ. Minnesota Hospitals, Minneapolis, Minn.
antimetabolites; genetic strains; histocompatibility; skin; spleen; thymectomy; transplantation..homotransplantation

GM-05428 SHIRES, GEORGE T., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
blood transfusion; body fluids; dextran; glucose; radiochromium; radiolabeled iodine; radiolabeled sulfur; saline solutions; shock; therapy evaluation

GM-06343 KARLSON, KARL E., Research Fdn., State Univ. New York, Brooklyn, N.Y.
pulmonary ventilation; pulmonary airway resistance; lung disease; thoracic surgery

GM-07151 CALDWELL, FRED T., Jr., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
calorimetry; instrumentation; nitrogen balance; injury..burns; environment; temperature; injury..wound healing

GM-07993 RIEDERS, FREDERIC, Jefferson Med. Col., Philadelphia, Pa.
anesthetics; death; forensic medicine; autopsy; toxicology; body fluids; tissue; dosage

GM-08472 HUMPHRIES, ARTHUR L., Jr., Eugene Talmadge Mem. Hosp., Augusta, Ga.
kidney; hypothermia; perfusion; transplantation..autotransplantation; tissue preservation; kidney transplantation

GM-08582 FOX, CHARLES L., Jr., Bellevue Hosp., New York, N.Y.
injuries..burns; therapy; mortality; immunology..antigens; proteolysis; skin; toxins; hematology; primates..monkeys; blood coagulation..thromboplastin; electrolytes; muscle

GM-08772 LAMBERT, PETER B., Beth Israel Hosp., Boston, Mass.
blood vessels; histocompatibility; immunology..antigens; lymphatic system; skin; transplantation..homotransplantation

GM-09183 EGGERS, G.W.N., Jr., Sch. Med., Univ. Missouri, Columbia, Mo.
anesthesia; body position; cardiovascular system; respiratory system; nervous system

GM-09350 LEWIS, F. JOHN, Med. Sch., Northwestern Univ., Chicago, Ill.
anesthesia; blood pressure; computer diagnosis; electroencephalography; electromyography; galvanic skin response; instrumentation; monitoring; patient care..postoperative; phonocardiography; plethysmography; respiration; telemetering

GM-10438 MacLEAN, LLOYD D., Royal Victoria Hosp., Montreal, Canada
shock, hemorrhagic shock; endotoxins; heart function; blood pressure; peripheral vascular resistance; vasoactive agents; epinephrine; norepinephrine; metaraminol; histamine; neosynephrine; dibenamine hydrochloride; phentolamine; therapy; primates..monkeys

GM-10723 COWLEY, R. ADAMS, Sch. Med., Univ. Maryland, Baltimore, Md.
electronic heart stimulators; potentials..membrane potentials; instrumentation; membrane permeability and transport; electrophysiology; lung; medical electronics

GM-11540 RAVITCH, MARK M., Baltimore City Hosps., Baltimore, Md.
blood vessels restoration; criteria; instrumentation-methodology; intestinal resection; staplers; thoracic surgery

GM-11856 SPIRA, MELVIN, Col. Med., Baylor Univ., Houston, Texas
instrumentation-methodology; organosilicon compounds; therapy; injury..burns; therapy evaluation; antisepsis; limbs movement

GM-12049 WU, CLYDE, Col. Med., Wayne State Univ., Detroit, Mich.
anesthesia; pulmonary function; surgery..postoperative; hypoxia; acid--base equilibrium; pulmonary ventilation; nitrous oxide; bromochlorotrifluoroethane; cyclopropane; spinal cord; therapy evaluation

GM-12057 BROMBERG, BERTRAM E., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
skin transplantation; histocompatibility; injury..burns; injury..wound healing; tissue preservation

GM-12058 ESMOND, WILLIAM G., University Hosp., Baltimore, Md.
oxygen inhalation therapy..hyperbaric oxygen therapy; shock; toxicology; ascorbic acid; oxygen tension; antioxidants; enzymes; gases

GM-12160 SCHUMER, WILLIAM, Chicago Med. Sch., Chicago, Ill.
phenoxybenzamine; hemorrhagic shock; microcirculation; peripheral vascular resistance; vasoactive agents..vasodilators

GM-12345 HEALEY, JOHN E., Jr., Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
carcinogens; surgical adhesives; injuries..wound healing; injuries..surgical wounds; histocompatibility; muscle contraction; electrostimulus; nerve impulse transmission

GM-12661 GREENE, NORBERT D., Sch. Eng., Rensselaer Poly. Inst., Troy, N.Y.
implants; orthopedics; ions; metals; alloys; instrumentation--methodology; blood proteins..serum proteins; electrochemistry; body fluids

GM-12748 RAPAPORT, FELIX T., Sch. Med., New York Univ., New York, N.Y.
injuries..burns; necrosis; cytotoxicity; immunology..antibodies; blood cells; lymph; radiolabeled chromium

GM-12829 DUNPHY, J. ENGLEBERT, Univ. California Med. Cr., San Francisco, Cal.
injury..wound healing; connective tissue; mucopolysaccharides; proline; hexosamines; ascorbic acid; nucleic acids; radiolabeled sulfur; radiolabeled carbon; pyrogens; tensile strength; collagen

GM-12879 BENNETT, JAMES E., Indiana Univ. Med. Cr., Indianapolis, Ind.
carbohydrases..hyaluronidase; proteases..trypsin; proteases..chymotrypsin; streptokinase; enzymes; trauma; edema (generalized); injury..burns; injury..crush syndrome; therapy evaluation; hematoma; tourniquets

GM-12904 BLUM, JOHN A., Mt. Sinai Hosp., Chicago, Ill.
prosthesis; ureter; silicone rubber; ivalon; longitudinal study

GM-13230 RHOADS, JONATHAN E., International Surg. Soc. Comm. for Philadelphia Congress, Philadelphia, Pa.
conferences..international meetings; pancreas; surgery

GM-13655 KUKRAL, JOHN C., Sch. Med., Univ. Illinois, Chicago, Ill.
blood proteins..serum proteins; injury..burns; radiolabeled sulfur; methionine; fractionation; glucosamine; radiolabeled carbon

HD-00293 SWENSON, ORVAR, Children's Mem. Hosp., Chicago, Ill.
ureteral motility; chronic disease; infectious diseases

HD-00388 SNYDER, WILLIAM H., Jr., Children's Hosp., Los Angeles, Cal.
meconium ileus; vinyl acetates; pancreatic cystic fibrosis; fetus; exocrine glands; gastrointestinal surgery; salivation; electrolytes; achylia pancreatica; malabsorption syndromes; liver function

HD-00409 JENNY, JACQUES, Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
orthopedics; hip dysplasia; osteochondritis deformans juvenilis; radiography; blood supply

HD-00410 LISTER, JULIUS, Boston Floating Hosp., Boston, Mass.
esophagus prosthesis; infant animals; plastics; congenital abnormalities

HD-00562 SCRIBNER, BELDING H., Sch. Med., Univ. Washington, Seattle, Wash.
uremia; hemodialysis; child development; diet; proteins; behavioral adjustment; body weight

HD-00859 LANDY, JEROME J., Variety Children's Res. Fdn., Miami, Fla.
intestinal obstruction; germ--free; body fluids; toxins; phospholipases..lecithinase; carbohydrases..hyaluronidase; bacteria..Clostridium perfringens; gastrointestinal surgery

HD-01084 LISTER, JULIUS, Boston Floating Hosp., Boston, Mass.
infant human; infant animals; hemorrhage; blood volume; blood cells..erythrocytes; blood..plasma; radiolabeled chromium; radiolabeled iodine

HD-01201 GREEN, WILLIAM T., Children's Hosp., Boston, Mass.
skeleton; growth; children; longitudinal study; orthopedics; leg; paralysis; growth factors; poliomyelitis; prediction; congenital abnormalities; therapy evaluation; bone..epiphysis; growth inhibitors

HD-01208 KIESEWETTER, WILLIAM B., Children's Hosp., Pittsburgh, Pa.
nutrition; nitrogen balance; surgery postoperative; glucose; fructose; proteins; stress; age; children; electrolytes; adrenal cortex hormones; thyroid function; creatinine; aldosterone; patient care

HD-01225 MATLES, ARTHUR L., New York Med. Col., N.Y.C.
congenital abnormalities; fetus; infant human; mortality; hip dysplasia

HD-01264 CARTER, RODMAN D., Mary Imogene Bassett Hosp., Cooperstown, N.Y.
kidney; transplantation..homotransplantation; transplantation rejection; histocompatibility; radiation effects..whole body radiation; chemotherapy; blood transfusion

HE-00226 BLALOCK, ALFRED, Johns Hopkins Hosp., Baltimore, Md.
cardiovascular surgery; heart..chorda tendinae; heart..artificial heart; heart valves prosthesis; heart transplantation; heart valves; transplantation..homotransplantation; heart failure..congestive heart failure

HE-00763 **GRIMSON, KEITH S., Sch. Med., Duke Univ., Durham, N.C.**
hypertension (systemic); chemotherapy; sympathectomy; antihypertensive agents; diet; mebutamate; body weight; cholesterol; arteries..carotid arteries; arteries..renal artery; angiography; longitudinal study

HE-00830 **LILLEHEI, C. WALTON, Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
blood coagulation..fibrinolysis; blood vessels shunts; dextran; diagnostic tests; electronic heart stimulators; extracorporeal circulation; fiberscope (cardiac); heart..myocardium revascularization; heart block; heart surgery; heart valves prosthesis; instrumentation; staplers

HE-00851 **GLENN, WILLIAM W.L., Sch. Med., Yale Univ., New Haven, Conn.**
heart surgery; blood vessels shunts; arteries..pulmonary artery; veins..vena cava; respiration; blood flow; congenital heart disease

HE-03914 **HUFNAGEL, CHARLES A., Georgetown Univ. Hosp., Washington, D.C.**
heart valves prosthesis; heart valves..mitral valve; heart valves..aortic valve; blood coagulation; instrumentation

HE-01011 **DENNIS, CLARENCE, Sch. Med., State Univ. New York, Brooklyn, N.Y.**
pump oxygenator; heart valves prosthesis; heart valves.. mitral valves; acid citric dextrose; perfusion; blood coagulation; heart function; heart..ventricles

HE-01326 **WELDON, CLARENCE S., Johns Hopkins Hosp., Baltimore, Md.**
extracorporeal circulation..heart--lung bypass; hemolytic anemia; heart surgery; heart valves prosthesis; heart valves..mitral valve; fabrics; blood pressure; blood flow; heart valves..aortic valve

HE-01711 **ETSTEN, BENJAMIN E., New England Cr. Hosp., Boston, Mass.** cardiovascular system; anesthetics; heart function; stress; digitalis; catecholamines

HE-01782 **SEALY, WILL C., Duke Univ. Med. Cr., Durham, N.C.**
heart arrest; heart surgery; hypothermia; extracorporeal circulation; paralysis; cancer chemotherapy; hypertension (systemic); heart transplantation

HE-01787 **CANNON, JACK A., Univ. California Med. Cr., Los Angeles, Cal.**
arteriosclerosis; blood flow; coronary diseases; endartectomy; extracorporeal circulation..heart-lung bypass; heart..myocardium revascularization; heart valves prosthesis

HE-01894 **ADAMS, WILLIAM E., Univ. Chicago, Chicago, Ill.**
pulmonary hypertension; pulmonary circulation; blood vessels resistance; vasoactive agents..vasodilators; arterial stenosis; nerves, innervation; therapy evaluation

HE-01984 **FRANK, HOWARD A., Beth Israel Hosp., Boston, Mass.**
blood vessels revascularization; capillary beds; arterial occlusions; blood flow; cardiovascular diseases; coronary occlusions and thrombosis; heart..myocardium revascularization; extracorporeal circulation..heart-lung bypass; instrumentation; radiation effects; blood vessels; lymphatic system

HE-01987 **EDWARDS, W. STERLING, Sch. Med., Univ. Alabama, Birmingham, Ala.**
blood vessels prosthesis; teflon; blood vessels transplantation; surface properties; injury..wound healing; heparin; peripheral vascular diseases; thromboembolism; valvular heart diseases..pulmonary valve insufficiency; heart valves prosthesis

HE-02014 **FINE, JACOB, Sch. Med., Harvard Univ., Boston, Mass.**
endotoxins; detoxication; hemorrhagic shock; reticuloendothelial system; peripheral vascular system; catecholamines; nervous system; immune sera; immunofluorescence; shock; spleen

HE-02035 **SHUMACKER, HARRIS B., Jr., Indiana Univ. Med. Cr., Indianapolis, Indiana**
arterial occlusions; blood flow; blood pressure; cardiovascular surgery; heart rate; kidney circulation; kidney decapsulation; kidney function; renal artery occlusions and stenosis; renal hypertension

HE-02038 **MULLER, WILLIAM H., Jr., Sch. Med., Univ. Virginia, Charlottesville, Va.**
heart surgery; heart valves prosthesis; heart valves.. aortic valve; heart valves..mitral valve; myocardial infarct; heart function; pulmonary function; electrolytes; blood circulation dynamics; valvular heart diseases.. aortic insufficiency; respiration; arrhythmia, cardiac; lung disease; tracheotomy; respirators; gases

HE-02278 **COHN, ROY B., Sch. Med., Stanford Univ., Palo Alto, Cal.**
liver circulation; blood flow; arteries..hepatic artery; liver cirrhosis; heart enlargement; blood vessels shunts.. portacaval shunt; nerves..denervation; acidosis; neurohormones; heart diseases; kidney transplantation

HE-02300 **BECK, CLAUDE S., Sch. Med., Western Reserve Univ., Cleveland, Ohio**
temperature; coronary disease; heart surgery; myocardial infarct; muscles..myofibrils; heart..myocardium; oxygen tension; hyperbaric oxygenation

HE-02363 **SCHLOERB, PAUL R., Univ. Kansas Med. Cr., Kansas City, Kans.**
uremia; vivodialysis; intestines; perfusion; water--electrolyte balance; hypothermia; amino acid; glucose; nitrogen balance; urea; radiolabeled; kidney transplantation; transplantation..homotransplantation; body composition; intestinal obstruction

HE-02427 **KAPLAN, SAMUEL, Children's Hosp. Fdn., Cincinnati, Ohio**
acetylcholine; brain ischemia and hypoxia; buffers; enzymes inhibitors; extracorporeal circulation; heart arrest; hypoxia; oxygen tension; potassium citrate

HE-02562 **ELLISON, ROBERT G., Georgia Med. Col., Augusta, Ga.**
pulmonary hypertension; blood vessels shunts.. arteriovenous shunt; oxygen tension

HE-02569 **BUTCHER, HARVEY R., Jr., Sch. Med., Washington Univ., St. Louis, Mo.**
age; arterial occlusions; arteries; blood flow; blood vessels prosthesis; elasticity; endartectomy; peripheral vascular system; stable isotope labeled oxygen; therapy; vascular disorders

HE-02572 **MAHONEY, EARLE B., Sch. Med., Univ. Rochester, Rochester, N.Y.**
arrhythmia..ventricular fibrillation; blood flow; heart arrest; hypothermia; oxygen tension; perfusion; resuscitation

HE-02573 **ALBERT, HAROLD M., Sch. Med. Louisiana State Univ., New Orleans, La.**
congenital heart disease; valvular heart diseases; heart block..atrioventricular block; therapy; acid--base equilibrium; extracorporeal circulation; heart..myocardium; heart arrest; electron microscopy; dextran; heart surgery

HE-02618 **ESMOND, WILLIAM G., Univ. Hosp., Baltimore, Md.**
hypothermia; heat exchanger; pump oxygenator; perfusion; instrumentation; hemodialysis; hyperbaric oxygenation; hemorrhagic shock

HE-02710 **PATON, BRUCE C., Sch. Med., Univ. Colorado, Denver, Colo.**
hemorrhagic shock; dextran; capillaries; hypothermia; heart function; carbon monoxide; poisoning; therapy evaluation; extracorporeal circulation; blood proteins; blood cells.. erythrocytes; cardiovascular diseases; radiation effects; sympatholytic agents; sympathomimetic agents; cardiovascular surgery

HE-02757 **PESKIN, GERALD W., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
liver cirrhosis; ascites; liver circulation; portal hypertension; blood flow; blood pressure; blood vessels shunts..arteriovenous shunt; carcinoid; blood vessels shunts..portacaval shunt; serotonin; lung; liver function; dumping syndrome; endocrine glands; stomach..gastric juice; liver; digitoxin; immunology; liver diseases; gastrointestinal disorders

HE-02762 **ORKIN, LOUIS R., Col. Med., Yeshiva Univ., N.Y.C.**
anesthesia appliances; instrumentation; pulmonary airway resistance

HE-02812 **MALONEY, JAMES V., Jr., Sch. Med., Univ. California, Los Angeles, Cal.**
instrumentation; pump oxygenator; proteins denaturation

HE-02826 **CREECH, OSCAR, Jr., Sch. Med., Tulane Univ., New Orleans, La.**
blood flow; heart myocardium; indicator dilution (concentration) techniques; hydrogen; heart catheterization; congenital heart disease..septal defect; instrumentation-methodology; cardiovascular surgery

HE-02941 **LILLEHEI, RICHARD C., Univ. Minnesota Hosp., Minneapolis, Minn.**
sympatholytic agents; shock; blood flow; electromagnetic flowmeter; catecholamines; serotonin; intestines; ischemia; therapy

HE-03043 **ABRAMS, HERBERT L., Sch. Med., Stanford Univ., Stanford, Cal.**
blood vessels shunts; cineangiocardiography; heart valves..mitral valve; heart valves prosthesis; kidney circulation; vasoactive agents

HE-03047 **SCOTT, H. WILLIAM, Jr., Sch. Med., Vanderbilt Univ., Nashville, Tenn.**
atheroma; fats; cholesterol; diet; vitamin D; gastrointestinal surgery; primates, Macaca mulatta

HE-03049 **EDMARK, KARL W., Providence Hosp., Seattle, Wash.**
hypothermia; acid--base equilibrium; instrumentation; electrical defibrillation; electrolytes; oxyhemoglobin; heart function

HE-03065 **BOSHER, LEWIS H., Jr., Med. Col. Virginia, Richmond, Va.**
extracorporeal circulation; hypothermia; heart arrest; heart..myocardium; autopsy; heart--lung preparation; perfusion

HE-03109 **CLARK, LELAND C., Col. Med., U. Alabama, Birmingham, Ala.** gases; cardiovascular system; instrumentation; heart surgery; blood; diagnostic tests

HE-03115 **WANGENSTEEN, OWEN H., Univ. Minnesota Hosp., Minneapolis, Minn.**
transplantation..autotransplantation; gastrointestinal transplantation; radiation effects; tissue preservation; thrombosis; shock; therapy evaluation; vasopressin; blood coagulation..antithrombin; liver

HE-03137 **DeBAKEY, MICHAEL E., Sch. Med., Baylor Univ., Houston, Tex.**
hypothermia; heart surgery; heart valves prosthesis; blood vessels prosthesis; transplantation..homotransplantation; heart valves; heart transplantation; vascular disorders; renal hypertension; renal arterial occlusions and stenosis; blood vessels restoration; intestines; kidney revascularization

HE-03180 **LEEDS, SANFORD E., Mt. Zion Hosp., Med. Cr., San Francisco, Cal.**
blood vessels; heart failure; lung; lymph flow; pulmonary function

(contd)

SURGERY (CONTD)

HE-03181 SCHENK, WORTHINGTON G., Jr., Sch. Med., State Univ. New York, Buffalo, N.Y.
anesthetics; aorta coarctation; arteriovenous fistula; blood circulation dynamics; blood flow; blood pressure; cardiovascular diseases; cardiovascular surgery; liver; lung; thoracic surgery; valvular heart disease..aortic insufficiency; vasoactive agents

HE-03286 WESOLOWSKI, SIGMUND A., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
blood vessels prosthesis; transplantation..homotransplantation; heart surgery; screening; blood vessels transplantation

HE-03349 GIBBON, JOHN H., Jr., Jefferson Med. Col., Philadelphia, Pa.
anesthesia; carbon dioxide; cardiotomy; cardiovascular system; heart function; hypothermia; nitrous oxide; oxygen; pulmonary function; pulmonary ventilation

HE-03379 MERENDINO, K. ALVIN, Sch. Med., Univ. Washington, Seattle, Wash.
heart valves..aortic valve; heart valves..mitral valve; heart valves prosthesis; pump oxygenator

HE-03545 REEMTSMA, KEITH, Tulane Univ., New Orleans, La.
arteries..coronary arteries; congenital heart disease; heart conduction system..atrioventricular node

HE-03549 SPACH, MADISON S., Sch. Med., Duke Univ., Durham, N.C.
heart block; blood circulation dynamics; heart rhythm; heart conduction system..heart pacemakers; therapy evaluation; hypoxia; hypercapnia; acid-base equilibrium; cardioactive agents; myocardial ischemia and hypoxia

HE-03592 PELTIER, LEONARD F., Univ. Kansas Med. Cr., Kansas City, Kans.
therapy evaluation; ethanol; lipids..serum lipids; embolism; lipases..tributyrinase; bone fractures; diagnostic tests; extracorporeal circulation..heart--lung bypass; lung; surface properties

HE-03743 GOETZ, ROBERT H., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
blood circulation dynamics; blood vessels vasomotion; extracorporeal circulation; hypothermia; lactates; pulmonary circulation; pulmonary ischemia and hypoxia

HE-03792 STEIN, ARTHUR H., Jr., Sch. Med., Washington Univ., St. Louis, Mo.
arteriovenous fistula; blood flow; bone marrow; bone; growth; blood vessels restoration; bone..femur; blood cells..erythrocytes

HE-03803 WATKINS, ELTON, Jr., Lahey Fdn., Boston, Mass.
blood transfusion; cardiotomy; extracorporeal circulation; freezing; glycerin; heart valves; hypothermia; ultrasonics

HE-03805 CONNOLLY, JOHN E., Stanford Med. Cr., Palo Alto, Cal.
heart failure; blood vessels shunts..arteriovenous shunt; extracorporeal circulation..cardiac bypass

HE-03826 HANLON, C. ROLLINS, St. Louis Univ., St. Louis, Mo.
catecholamines; dextran; extracorporeal circulation; heart arrest; heart function; heart surgery; heparin; hypothermia; peripheral vascular resistance

HE-04162 COTT, VINCENT L., Sch. Med., Univ. Wisconsin, Madison, Wis.
blood coagulation; anticoagulants; colloids; heart valves prosthesis; instrumentation; plastics; pulsatile perfusion pump

HE-04182 HOWARD, JOHN M., Hahnemann Med. Col., Philadelphia, Pa.
blood vessels restoration; peripheral vascular disorders; regeneration; toxins; shock; aldosterone; lymphangiography; lymphatic system; transplantation..organ transplantation; blood vessels transplantation; transplantation..plantation..homotransplantation; arteriosclerosis

HE-04248 ROHMAN, MICHAEL, Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.
blood collateral circulation; pulmonary circulation; hypothermia; pulmonary arterial occlusions; bronchiectasis; pulmonary emphysema; heart

HE-04260 CHILD, CHARLES G., III, Univ. Michigan Med. Cr., Ann Arbor, Mich.
portal hypertension; liver circulation; liver cirrhosis; liver function; ammonia; blood vessels shunts..portacaval shunt; sodium; water--electrolyte balance; steroids; proteins; primates..monkeys; aldosterone; body water

HE-04382 POWERS, SAMUEL R., Jr., Albany Med. Col., Albany, N.Y.
trauma; renal failure; therapy; mannitol

HE-04486 GIBBON, JOHN H., Jr., Sch. Surg., Jefferson Med. Col., Philadelphia, Pa.
extracorporeal circulation..heart-lung bypass; acid-base equilibrium; hypothermia; nitrous oxide; oxygen; carbon dioxide; hyperventilation, passive

HE-04581 KAY, EARLE B., St. Vincent Charity Hosp., Cleveland, Ohio
heart surgery; heart valves..aortic valve; heart valves.. mitral valve; heart valves prosthesis

HE-04595 COWLEY, R. ADAMS, Sch. Med., Univ. Maryland, Baltimore, Md.
heart massage; electronic heart stimulators; instrumentation; electrical defibrillation

HE-04639 SMITH, LOUIS L., Sch. Med., Loma Linda Univ., Los Angeles, Cal.
hemorrhagic shock; hypoxia; stress; norepinephrine; lactates; cardiovascular surgery; blood vessels vasomotion

HE-04644 SMITH, GARDNER W., Sch. Med., Univ. Virginia, Charlottesville, Va.
liver circulation; blood vessels shunts..portacaval shunt; liver cirrhosis; perfusion; liver function tests; medicinal plants; Senecio alkaloids

HE-04645 REYNOLDS, ROBERT N., New England Med. Cr., Boston, Mass.
anesthesia; infants, human; pulmonary function; respirators

HE-04651 GLENN, WILLIAM W.L., Sch. Med., Yale Univ., New Haven, Conn.
electronic stimulators, radiofrequency controlled; electronic heart stimulators; heart block..Stokes--Adams disease; instrumentation--methodology; urinary bladder stimulator; diaphragmatic respirators; paraplegia

HE-04658 SHUMWAY, NORMAN E., Sch. Med., Stanford Univ., Palo Alto, Cal.
heart surgery; transplantation..autotransplantation; heart function; valvular heart diseases..mitral insufficiency; heart valves..pulmonary valve; valvular heart diseases.. aortic valve stenosis; heart transplantation

HE-04680 ROE, BENSON B., Univ. California Med. Cr., San Francisco, Cal.
heart surgery; heart function; arteries..coronary arteries; blood flow; heart valves prosthesis; blood circulation dynamics

HE-04702 BROWN, IVAN W., Jr., Sch. Med., Duke Univ., Durham, N.C.
heart arrest; hypothermia; instrumentation-methodology; perfusion; pump oxygenator

HE-04862 BROCKMAN, STANLEY K., Vanderbilt Univ. Hosp., Nashville, Tenn.
heart block; heart function; blood circulation dynamics; heart rate; reflex; heart, atrium; heart valves

HE-04881 THEYE, RICHARD A., Mayo Assn., Rochester, Minn.
anesthesia; thoracic surgery; hypothermia; oxygen consumption; carbon dioxide transport; pulmonary ventilation; blood pressure

HE-04892 PATON, BRUCE C., Sch. Med., Univ. Colorado, Denver, Colo.
heart valves prosthesis; teflon; instrumentation

HE-05032 SHAW, ROBERT F., Columbia Univ., New York City, N.Y.
electromagnetic flowmeter; instrumentation-methodology; arteries, hepatic artery; veins.. portal veins; blood pressure; blood flow; liver cirrhosis; blood vessels shunts..portacaval shunt; blood collateral circulation; coronary occlusions and thrombosis; heart surgery; liver circulation; heart..interventricular septum; congenital heart disease..septal defect

HE-05033 KUSSEROW, BERT K., Col. Med., Univ. Vermont, Burlington, Vt.
blood circulation dynamics; heart..artificial heart; heart surgery; hemolysis; instrumentation; thrombosis

HE-05114 LOWENFELS, ALBERT B., New York Univ. Med. Cr., N.Y.C.
embolism; fats; instrumentation-methodology; lipases

HE-05183 KELLY, WILLIAM D., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
heart valves prosthesis; plastics; heart valves..aortic valve; heart function

HE-05273 SIRAK, HOWARD D., Univ. Hosp., Columbus, Ohio
heart..myocardium; hypothermia; heart contraction; adenosine phosphates; phosphocreatine; muscle proteins; potassium; sodium; calcium; fatty acids; hypoxia

HE-05336 CARDOZO, RICHARD H., Dartmouth Med. Sch., Hanover, N.H.
heart surgery; cannulation; arteries..aorta; heart function; exercise; electromagnetic flowmeter; instrumentation

HE-05348 MAHAFFEY, JOHN E., Med. Col. South Carolina, Charleston, S.C.
heart contraction; anesthesia; heart function; gases; catecholamines; blood pressure

HE-05414 LUESSENHOP, ALFRED J., Sch. Med., Georgetown Univ. Hosp., Washington, D.C.
cerebral aneurysms; cerebroarterial occlusions and thrombosis; electromagnetic fields; embolism; instrumentation; therapy

HE-05432 ELLISON, ROBERT G., Med. Col. Georgia, Augusta, Ga.
extracorporeal circulation; glycogen; heart..myocardium; heart arrest; hypothermia; lactates; myocardial ischemia and hypoxia; phosphates

HE-05439 REDDING, JOSEPH S., Baltimore City Hosp., Baltimore, Md.
coronary occlusions and thrombosis; extracorporeal circulation; heart contraction; heart massage; hypothermia; pulmonary ventilation; respiration; resuscitation; therapy evaluation; vasoactive agents..vasodilators

HE-05450 MICHELS, NICHOLAS A., Jefferson Med. Col., Philadelphia, Pa.
abdominal viscera; autopsy; bile ducts; blood collateral circulation; blood supply; gastrointestinal system; publications..atlas

HE-05547 FINE, JACOB, Beth Israel Hosp., Boston, Mass.
anesthesia; blood volume; endotoxins; hemorrhagic shock; instrumentation; kidney function; radiolabeled

HE-05633 MADDEN, ROBERT E., New York Med. Col., New York, N.Y.
valvular heart diseases..aortic valve disease; arteries.. coronary arteries; blood flow; extracorporeal circulation; heart surgery

HE-05637 **SCHRAMEL, ROBERT J.**, Sch. Med., Tulane Univ., New Orleans, La.
blood transfusion; dextran; extracorporeal circulation; hyaline membrane disease (pulmonary); injury..crush syndrome; instrumentation-methodology; pneumonia; pulmonary emphysema; veins..vena cava

HE-05641 **FRY, FRANCIS J.**, Interscience Res. Inst., Champaign, Ill.
heart..artificial heart; blood; stress; nervous system; blood circulation dynamics; heart valves prosthesis; blood coagulation..fibrin; instrumentation

HE-05845 **RASHKIND, WILLIAM J.**, Children's Hosp. Philadelphia, Philadelphia, Pa.
instrumentation; oxygen; bubbleless oxygenator; hypoxia neonatorum; hyaline membrane disease, pulmonary; infants, animal; infants, human

HE-06016 **FOSTER, JOHN H.**, Vanderbilt Univ. Hosp., Nashville, Tenn.
liver circulation; portal hypertension; blood pressure; arterial occlusions; venous occlusions; blood vessels shunts..portacaval shunts; antihypertensive agents; heart catheterization; primates..monkeys

HE-06052 **ROGERS, LLOYD S.**, Veterans Admin. Hosp., Syracuse, N.Y.
oxygen; blood flow; heart..myocardium; cerebrovascular system; arteries..renal artery; kidney function; perfusion; cancer chemotherapy; polarography; arterial infusions; hyperbaric oxygen therapy; cancer

HE-06069 **ETSTEN, BENJAMIN E.**, New England Center Hosp., Boston, Mass.
anesthesia; blood circulation dynamics; bromochloro-trifluoroethane; carbon dioxide tension; catecholamines; cyclopropane; extracorporeal circulation..cross circulation; ganglionic blocking agents (nonspecific); homeostasis; thiopental sodium; veins; venous occlusions

HE-06081 **EDMAN, THOMAS**, Philadelphia Col., Philadelphia, Pa.
heart valves prosthesis; fabrics; heart surgery; blood vessels prosthesis

HE-06086 **PETERS, RICHARD M.**, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
arterial occlusions; arteries..splenic artery; blood vessels shunts..arteriovenous shunt; heart function; liver cirrhosis; veins..portal veins

HE-06107 **SWEENEY, RICHARD D.**, Misericordia Hosp., Philadelphia, Pa.
liver function; renal hypertension; kidney; adrenal glands

HE-06151 **CRAYTHORNE, NORMAN W.B.**, Sch. Med., West Virginia Univ., Morgantown, W.Va.
heart function; heart..myocardium; muscle contraction; anesthetics; blood circulation dynamics; acidosis; cyclopropane; ethers; chloroform; bromochlorotri-fluoroethane

HE-06154 **BLAIR, EMIL**, Sch. Med., Univ. Maryland, Baltimore, Md.
heart diseases; lung..bronchi; pulmonary function; hypothermia; extracorporeal circulation..heart--lung bypass; blood flow; acid--base equilibrium; reflex; bradycardia; blood vessels vasomotion; elasticity

HE-06157 **TARNAY, THOMAS J.**, West Virginia Univ. Med. Cr., Morgantown, W. Va.
blood coagulation; heart valves prosthesis; heart surgery

HE-06163 **HARDY, JAMES D.**, Sch. Med., Univ. Mississippi, Jackson, Miss.
cardiovascular diseases; heart valves prosthesis; heart valves..aortic valve; arteries; atherosclerosis; heart transplantation; heart conduction system; heart block; blood vessels restoration; blood vessels transposition; pump oxygenator; heart surgery

HE-06178 **GOLLAN, FRANK**, Veterans Admin. Hosp., Coral Gables, Fla.
heart failure; extracorporeal circulation; blood vessels shunts; hypothermia; oxygen tension; heart function; respiration; electrolytes; temperature

HE-06283 **COPE, OLIVER**, Sch. Med., Massachusetts Gen. Hosp., Boston, Mass.
thoracic duct; blood volume; hemorrhagic shock; lymph flow

HE-06429 **HELRICH, MARTIN**, University Hosp., Baltimore, Md.
pulmonary airway resistance; asthma; anesthesia; pulmonary ventilation; pulmonary function

HE-06496 **HAUPT, GEORGE J.**, Lankenau Hosp., Philadelphia, Pa.
carbon dioxide tension; extracorporeal circulation; hydrogen-ion concentration; hypothermia; lactates; oxygen consumption; phosphates; potassium; pulmonary function; pyruvate; sodium

HE-06503 **BLUMENSTOCK, DAVID A.**, Mary Imogene Bassett Hosp., Cooperstown, N.Y.
heart transplantation; transplantation..homotransplantation; chemotherapy; radiation effects; thymectomy; immunology.. antigens; typing sera; resuscitation; tissue preservation

HE-06504 **CORDELL, ALFRED R.**, Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.
blood circulation dynamics; heart function; hypothermia; perfusion; peripheral vascular resistance

HE-06510 **KANTROWITZ, ADRIAN**, Maimonides Hosp., Brooklyn, N.Y.
artificial sphincters; diaphragmatic respirators; electronic heart stimulators; electrophysiology; electrostimulus; heart..auxiliary ventricle; heart block..Stokes-Adams disease; heart conduction system..heart pacemakers; implants; intestines..ileum; limbs movement; medical electronics; nervous system..peripheral nerves; prosthesis; urinary bladder

HE-06511 **GORDON, ARCHER S.**, Lovelace Fdn. Med. Education, Research, Albuquerque, N. Mex.
heart arrest; hypothermia; heart surgery; blood pressure; carbon dioxide tension; acid--base equilibrium; electrocardiography; electroencephalography; hibernation; arrhythmia, cardiac..ventricular fibrillation; electrical defibrillation; heat exchanger; resuscitation; artificial respiration; cardiac assistor, external; heart trans-plantation; lung transplantation

HE-06612 **FITZPATRICK, HUGH F.**, St. Luke's Hosp., N.Y.C.
arterial occlusions; blood coagulation..plasmin; extracorporeal circulation; peripheral vascular system; streptokinase; therapy evaluation

HE-06619 **WARDEN, HERBERT E.**, West Virginia Univ. Med. Cr., Morgantown, W.Va.
electrolytes; hormones; kidney circulation; kidney function; urine

HE-06699 **POPPENDIEK, HEINZ F.**, 8686 Dunaway Drive, La Jolla, California
instrumentation; pump oxygenator; electromagnetic fields; hemolysis; viscosity; extracorporeal circulation

HE-06706 **EISEMAN, BEN**, Univ. Kentucky Med. Cr., Lexington, Ky.
heart..artificial heart; instrumentation

HE-06763 **WARREN, RICHARD**, Sch. Med., Harvard Univ., Boston, Mass.
thrombosis; radiolabeled iodine; blood coagulation.. plasminogen; streptokinase

HE-06850 **SPENCER, FRANK C.**, Sch. Med., Univ. Kentucky, Lexington, Ky.
cardiovascular diseases; heart surgery; endartectomy; transplantation..autotransplantation; extracorporeal circulation..heart-lung bypass; hypothermia; heart valves prosthesis; heart valves..aortic valve; teflon; heart block; nervous system..intercostal nerves; blood vessels restoration

HE-06929 **WALKER, MATTHEW**, Meharry Medical College, Nashville, Tenn.
blood vessels transplantation; arteries; blood vessels restoration

HE-06967 **GALLA, STEPHEN J.**, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
anesthetics; ether; blood flow; gas chromatography; bromochlorotrifluoroethane; cardiovascular system; respiratory system; electroencephalography; arteries.. coronary arteries; liver circulation; glucose; thiamine; fatty acids; heart..myocardium

HE-06985 **HOLSWADE, GEORGE R.**, Sch. Med., Cornell Univ., New York, N.Y.
heart conduction system..heart pacemakers; heart block; electrodes..microelectrodes; instrumentation

HE-07028 **DENNIS, CLARENCE**, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
heart surgery; coronary occlusions and thrombosis; oxygen consumption; extracorporeal circulation..cardiac bypass; myocardial infarct

HE-07052 **KNEISEL, JOHN J.**, Hosp. St. Raphael, New Haven, Conn.
blood vessels prosthesis; blood flow; blood pressure; thrombosis

HE-07092 **NEVILLE, JOHN F., Jr.**, Sch. Med., State Univ. New York, Syracuse, N.Y.
heart conduction system..heart pacemakers; heart block; electrodes..platinum electrodes; heart catheterization; instrumentation

HE-07102 **CUTHBERTSON, ELIZABETH M.**, Children's Hosp., San Francisco, Cal.
blood vessels vasomotion; bone marrow; blood pressure; limbs; plethysmography; blood flow; nerves..denervation; sympathectomy; transplantation..autotransplantation; arteries..femoral artery; amputation; pain; bone; thrombosis; electronarcosis; primates..monkeys

HE-07129 **ANDERSEN, THORKILD W.**, Sch. Med., Univ. Florida, Gainesville, Fla.
anesthetics; vasoactive agents..vasopressors; blood pressure; heart function; peripheral vascular resistance

HE-07130 **GROSS, ROBERT E.**, Children's Hosp. Cr., Boston, Mass.
cardiovascular diseases; congential abnormalities; congenital heart disease..septal defect; heart conduction system..bundle of His; extracorporeal circulation..heart-lung bypass; heart arrest; electronic recording; hypothermia; therapy; plastics; heart surgery; tris(hydroxymethyl)aminomethane; acidosis; dextran; blood; viscosity; heart conduction system..heart pacemakers; heart block; heart block; instrumentation; children; infant human; oxygen inhalation therapy..hyperbaric oxygen therapy; blood coagulation..plasmin

HE-07171 **YEAGER, GEORGE H.**, Sch. Med., Univ. Maryland, Baltimore, Md.
pulmonary arterial occlusions; contrast media; pulmonary ventilation; respiration; blood volume; enzymes; serotonin; blood coagulation..fibrinolysis; extracorporeal circulation..cardiac bypass; therapy

HE-07253 **FALOR, WILLIAM H.**, Akron City Hosp., Akron, Ohio
blood vessels prosthesis; elasticity; implants; instrumentation-methodology; rubber

(contd)

SURGERY (CONTD)

HE-07277 LIEBOW, AVERILL A., Sch. Med., Yale Univ., New Haven, Conn.
pulmonary heart disease; pulmonary circulation; pulmonary hypertension; coronary occlusions and thrombosis; hyperlipemia; blood collateral circulation; lung; growth; transplantation; pneumonectomy; infant animals..newborn; tritium; atelectasis, congenital; cyanosis; oxygen tension; blood vessels shunts; blood vessels transposition; heart..myocardium revascularization; hyaline membrane disease, pulmonary

HE-07354 SCHWARTZ, SEYMOUR I., Strong Mem. Hosp., Rochester, N.Y.
blood vessels restoration; thrombosis; blood vessels prosthesis; therapy; electrical fields; radiolabeled phosphorus; potentials

HE-07355 GRYSKA, PAUL F., Boston City Hosp., Boston, Mass.
electrocoagulation; hemorrhage; thrombosis

HE-07405 BOEREMA, ITE, Chirurgische Kliniek, Amsterdam, Holland
hyperbaric oxygenation; heart surgery; hypothermia; blood collateral circulation; bacterial diseases; injuries ..wound healing; tetanus, clostridial; myositis

HE-07440 SIGEL, BERNARD, Woman's Med. Col., Philadelphia, Pa.
blood vessels restoration; electrocoagulation; instrumentation--methodology; adhesion

HE-07516 HYMAN, ALBERT, Sch. Med., Tulane Univ., New Orleans, Louisiana
acetylcholine; atropine; blood circulation dynamics; blood coagulation..fibinolytic drugs; ganglionic blocking agents (non-specific); heart function; isoproterenol; l-methyl-D-lysergic acid butanolamide tartrate; pulmonary arterial occlusions; pulmonary circulation; vasoactive agents..vasopressors

HE-07518 LENDRUM, BESSIE L., Univ. Illinois Med. Cr., Chicago, Ill.
cardiorenal disorders; extracorporeal circulation..heart-lung bypass; kidney function; blood circulation dynamics; water-electrolyte balance; heart surgery; heart function; dyes; acidosis; congenital heart disease

HE-07552 KELLY, WILLIAM D., Univ. Minnesota, Minneapolis, Minn.
blood circulation dynamics; blood flow; epinephrine; extracorporeal circulation; hypothermia; norepinephrine; perfusion

HE-07622 TOOLE, JAMES F., Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.
angiography; arteries..carotid arteries; arteries..vertebral artery; arteriosclerosis; arthritis..osteoarthritis; autopsy; blood flow; blood vessels restoration; body position; cerebrovascular disorders; diagnostic tests; head; neck; primates; therapy evaluation

HE-07624 DAHLEN, ROGER W., Sch. Med., Dent., Seton Hall Col., Jersey City, N. J.
hypothermia; blood collateral circulation; heart arrest; blood pressure; heart function; extracorporeal circulation; gases; viscosity; monitoring

HE-07706 JACOBSON, JULIUS H., II, Mount Sinai Hosp., New York, N.Y.
blood collateral circulation; sympathectomy; vasoactive agents..vasodilators; arterial occlusions; exercise; radiation effects; peripheral vascular diseases; hyperbaric oxygenation; oxygen tension; lymphatic tissue

HE-07707 JACOBSON, JULIUS H., II, Mount Sinai Hosp., New York, N.Y.
blood vessels shunts; microsurgery and microdissection; hyperbaric oxygenation; blood vessels prosthesis; endarterectomy; ureter; vas deferens; oviduct; bile ducts; nerves; lymphatic tissue

HE-07708 LITWAK, ROBERT S., Mount Sinai Hosp., N.Y.C.
blood volume; heart surgery; arterial infusions; radiolabeled iodine; albumins, serum albumins; monitoring

HE-07712 LEVOWITZ, BERNARD S., Maimonides Hosp. Brooklyn, Brooklyn, N.Y.
heart..myocardium revascularization; blood vessels shunts; arteries, pulmonary artery; arteries, aorta

HE-07735 MARCHIORO, THOMAS L., Univ. Colorado Med. Cr., Denver, Colo.
kidney function; hypothermia; heparin; procaine hydrochloride; renal arterial occlusions and stenosis; nephrectomy; urinary calculi; renal hypertension; kidney transplantation; kidney revascularization; liver; perfusion

HE-07740 NEELY, WILLIAM A., Univ. Mississippi Med. Cr., Jackson, Miss.
heart-lung bypass; blood substitutes; dextran; oxygen transport; heart; brain; blood cells; injuries

HE-07772 EISEMAN, BEN, Univ. Kentucky Med. Cr., Lexington, Ky.
anesthesia; blood volume; drugs addiction; hypotension

HE-07785 STAHL, WILLIAM M., Col. Med., Univ. Vermont, Burlington, Vt.
adrenal cortex hormones; body fluids; extracorporeal circulation..cross-circulation; kidney function; osmoreceptors; pituitary hormones; pressoreceptors; water-electrolyte balance

HE-07816 ALMOND, CARL H., University Hosp., Columbia, Mo.
heart transplantation; heart surgery; hypothermia; tissue preservation; perfusion; freezing; extracorporeal circulation; dimethyl sulfoxide

HE-07821 SAWYER, PHILIP N., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
hemostasis; electrocoagulation; instrumentation-methodology; hemophilia; esophageal varices

HE-07822 FISHER, BERNARD, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
lymph flow; blood circulation dynamics; fluorescein; skin transplantation; transplantation..homotransplantation; transplantation immunology

HE-07897 HITCHCOCK, CLAUDE R., Minneapolis Gen. Hosp. Res. Fdn, Minneapolis, Minn.
heart surgery; atmospheric pressure; ischemia; infants (animals)..newborn; hypothermia; instrumentation-methodology

HE-07918 BLAIR, EMIL, Sch. Med., Univ. Maryland, Baltimore, Md.
blood flow; coronary occlusions and thrombosis; heart..myocardium revascularization; heart function; heart surgery; injury..wound healing; myocardial infarct; therapy evaluation

HE-07920 GALLETTI, PIERRE M., Basic Hlth. Sci., Emory Univ., Atlanta, Ga.
membranes..prosthetic membranes; lung..artificial lung; kidney..artifical kidney; instrumentation; implants; membrane permeability and transport

HE-07934 ENERSON, DANIEL M., Veterans Admin. Hosp., Pittsburgh, Pa.
heart..myocardium; heart arrest; hypothermia; myocardial ischemia and hypoxia

HE-07943 BARKER, WILEY F., Sch. Med., Univ. California, Los Angeles, Cal.
atherosclerosis; congenital abnormalities; endarterectomy; blood vessels transplantation; arteries..aorta; arteries..renal artery; blood vessels shunts; kidney revascularization; blood coagulation..anticoagulants

HE-07946 EGER, EDMOND I., Univ. California Med. Cr., San Francisco, Cal.
anesthetics; anesthesia; respiration; blood circulation dynamics; acid-base equilibrium; hypocapnia; hypercapnia; hypothermia; hyperthermia; dosage

HE-07984 RAND, PETER W., Maine Medical Cr., Portland, Me.
blood..plasma; viscosity; hematocrit; temperature; blood flow impedance; perfusion; shock; oliguria; dyspnea; coma; heart surgery; oxygenation

HE-07989 KAPLAN, ABRAHAM, Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
aorta coarctation; renal arterial occlusions and stenosis; hypertension (systemic); blood circulation dynamics; kidney function

HE-07996 LURIE, ABRAHAM A., Univ. Rochester Med. Cr., Rochester, N.Y.
anesthetics; blood circulation dynamics; peripheral vascular system; veins; heart function; cyclopropane; hypotension

HE-08021 AUSTEN, WILLIAM G., Massachusetts Gen. Hosp., Boston, Mass.
heart surgery; arterial occlusions; arteries..aorta; heart arrest; heart myocardium; oxygen consumption; heart function; glycolysis; hypothermia; acid-base equilibrium

HE-08043 AUSTEN, WILLIAM G., Massachusetts Gen. Hosp., Boston, Mass.
blood flow; blood pressure; blood vessels resistance; carbon dioxide tension; cardiotomy; contrast media; extracorporeal circulation; hydrogen-ion concentration; oxygen tension; pulmonary hypertension; radioisotopes.. oxygen 15; therapy; valvular heart diseases; vasoactive agents

HE-08066 WOLFSON, SIDNEY K., Jr., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
hypothermia; heart--lung bypass; electron transport; blood flow; glycolysis; brain, cerebrum; electrocoagulation

HE-08132 CAMPBELL, CRAWFORD J., Albany Med. Cr. Hosp., Albany, N.Y.
blood..serum; calcium; magnesium; fats; embolism

HE-08142 MOVITZ, DAVID, Chicago Med. Sch., Chicago, Ill.
heart..pericardium; heart myocardium revascularization; coronary occlusions and thrombosis; transplantation..autotransplantation; spleen tissue (cells) transplantation; blood circulation dynamics; atherosclerosis

HE-08162 PASCALE, LUKE R., St. James Hosp., Chicago Heights, Ill.
hyperbaric oxygenation; heart function; electrocardiography; blood circulation dynamics; exercise; heart diseases

HE-08163 MALM, JAMES R., Presbyterian Hosp., N.Y.C.
extracorporeal circulation..cardiac bypass; kidney function; diuretics; perfusion; tris(hydroxymethyl) aminomethane; mannitol

HE-08164 SOROFF, HARRY S., New England Cr. Hosp., Boston, Mass.
extracorporeal circulation; counterpulsation (arterial); oxygen consumption; heart..myocardium; blood circulation dynamics

HE-08179 POWERS, SAMUEL R., Jr., Albany Med. Col., Albany, N.Y.
blood pressure; vascular disorders; brain ischemia and hypoxia; convulsions; familial periodic vertigo and ataxia; headache

HE-08244 HARA, MASAUKI, Univ. Arkansas Med. Cr., Little Rock, Ark.
blood..plasma; blood cells..erythrocytes; blood proteins..

plasma proteins; body fluids; dextran; extracorporeal circulation; hypothermia; kidney function; radiolabeled iodine; serology; solutions..aqueous solutions

HE-08282 GOTT, VINCENT L., Sch. Med., Univ. Wisconsin, Madison, Wis.
blood collateral circulation; blood vessels prosthesis; coronary diseases; heart..myocardium; heart..myocardium revascularization; heart surgery; high energy compounds; metabolites; therapy evaluation

HE-08325 CROSS, FREDERICK S., St. Luke's Hosp., Cleveland, Ohio
blood coagulation..anti-coagulants; heart..myocardium; heart arrest; heart valves..aortic valve; heart valves.. mitral valve; heart valves..prosthesis; thrombosis

HE-08329 MASSION, WALTER H., Sch. Med., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
capillary beds; embolism; lung; nervous system.. autonomic nervous system; pulmonary arterial occlusions; pulmonary function; respiratory system reflexes; transplantation..autotransplantation

HE-08373 WEIDNER, MICHAEL G., Jr., Med. Col. South Carolina, Charleston, S.C.
acid-base equilibrium; adrenal cortex hormones; 4-amino antipyrine; blood circulation dynamics; blood pressure; body water; catecholamines; heart function; peripheral vascular resistance; radiolabeled iodine; radiolabeled krypton; shock

HE-08411 WARREN, WALTER D., Jackson Memorial Hosp., Miami, Fla.
blood circulation dynamics; blood vessel shunts.. portocaval shunt; brain damage; liver cirrhosis; liver function; nitrogen; portal hypertension

HE-08427 SANGER, PAUL W., Charlotte Mem. Hosp., Charlotte, N.C.
heart bypass; heart..ventricles; heart function; blood vessels transposition; blood pressure; blood circulation dynamics

HE-08432 SCHWARTZ, SEYMOUR I., Sch. Med., Dent., Univ. Rochester, Rochester, N. Y.
arterial occlusions; blood circulation dynamics; carbon dioxide tension; dextran; hypothermia; liver ischemia and hypoxia; oxygen inhalation therapy..hyperbaric oxygen therapy; oxygen poisoning; pulmonary ventilation; renal ischemia and hypoxia

HE-08531 BRYANT, LESTER R., Univ. Kentucky Med. Cr., Lexington, Ky.
lung..bronchi; pulmonary airway resistance; pulmonary emphysema; pulmonary function; pulmonary ventilation; thorax..intrathoracic pressure; trachea; trachea.. intratracheal pressure; tracheal restoration; transplantation..autotransplantation

HE-08585 ERNST, RICHARD W., Harris Hosp., Ft. Worth Med. Cr., Ft. Worth, Tex.
heart valves prosthesis; heart valves..mitral valve; toxicology; thrombosis; heart surgery; plastics; instrumentation

HE-08594 MONAFO, WILLIAM W., Jr., Sch. Med., Washington Univ., St. Louis, Mo.
heart transplantation; transplantation..homotransplantation; transplantation immunology; tissue preservation; hypothermia; organ culture; blood circulation dynamics; heart function

HE-08604 MULLER, OTTO F., Thomas M. Fitzgerald Mercy Hosp., Darby, Pa.
heart..artificial heart; instrumentation--methodology; peripheral vascular resistance; hemolysis; implants; kidney..glomerular filtration

HE-08621 WILLIAMS, G. RAINEY, Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
collagen; heart surgery; heart valves; heart valves prosthesis; implants; transplantation..autotransplantation; transplantation..homotransplantation

HE-08626 PAREIRA, MORTON D., Jewish Hosp., St. Louis, Mo.
homeostasis; blood volume; trauma; hemorrhage; cell water; body fluids; blood pressure; capillary beds; hepatectomy; albumins..serum albumins; globulins..serum globulins; norepinephrine; vasoactive agents; tritium; radiolabeled sulfur; radiolabeled iron

HE-08636 GIANNELLI, STANLEY, Jr., Saint Vincent's Hosp., N.Y.C.
blood flow; dextran; embolism; extracorporeal circulation; gas tensions; heparin; hypothermia; nitrogen; oxygen

HE-08644 BEALL, ARTHUR C., Jr., Col. Med., Baylor Univ., Houston, Tex.
heart-lung bypass; information exchange; pulmonary arterial occlusions; resuscitation; therapy evaluation; thrombectomy

HE-08657 HALL, ALBERT D., Univ. California, San Francisco Med. Cr., San Francisco, Cal.
oxygen inhalation therapy..hyperbaric oxygen therapy; cerebroarterial occlusions and thrombosis; pulmonary function; brain..cerebral cortex; blood flow; eye.. retina; cerebrospinal fluid; oxygen tension

HE-08696 SHUMWAY, NORMAN E., Sch. Med., Stanford Univ., Palo Alto, Cal.
transplantation..autotransplantation; transplantation.. homotransplantation; heart diseases; tissue preservation; transplantation rejection; blood vessels transposition; primates; research programs; heart transplantation

HE-08698 HARKEN, DWIGHT E., Harvard Sch. Med., Boston, Mass.
research programs; heart surgery; counterpulsation, arterial; extracorporeal circulation..heart--lung bypass; heart valves prosthesis; heart transplantation; transplantation rejection; hypothermia; pulmonary ventilation; electrical defibrillation; instrumentation--methodology; therapy evaluation; arrhythmia, cardiac; myocardial infarct; heart diseases; lung transplantation; blood vessels transplantation

HE-08719 BAILEY, CHARLES P., St. Barnabas Hosp. for Chronic Diseases, N.Y.C.
heart valves; transplantation, autotransplantation; veins..vena cava inferior; valvular heart diseases; heart function

HE-08765 HALLER, J. ALEX, Jr., Johns Hopkins Univ., Baltimore, Md.
pulmonary hypertension; pulmonary arterial occlusions; blood vessels shunts; heart catheterization; angiography

HE-08746 HALLER, J. ALEX, Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
arteries..carotid arteries; blood flow; brain ischemia and hypoxia; cerebroarterial occlusions extracranial; cerebrovascular system; endartectomy; longitudinal study; therapy evaluation

HE-08768 SMYTH, NICHOLAS P.D., Washington Hospital Cr., Washington, D.C.
heat exchanger; hypothermia; instrumentation--methodology; pump oxygenator

HE-08771 BAXTER, CHARLES R., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
injury..burns; blood flow; blood volume; body fluids; peripheral vascular resistance; heart function; blood cells ..erythrocytes; phenoxybenzamine; 1-methyl-4-(5-dibenzo (a,e)-cycloheptatrienylidene)-piperidine; digitalis; radiolabeled sulfur; radiolabeled chromium; radiolabeled iodine; serotonin inhibitors

HE-08824 GADBOYS, HOWARD L., Mount Sinai Hosp., N.Y.C.
blood transfusion; shock; extracorporeal circulation; hemostasis; peripheral vascular resistance; histamine; lymph flow; cell components; radiolabeled chromium

HE-08826 SHUMACKER, H.B., Indiana Univ. Med. Cr., Indianapolis, Ind.
instrumentation--methodology; heart..artificial heart; implants

HE-08831 SHAFTAN, GERALD W., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
hemorrhage; hemostasis; blood transfusion; vasoactive agents; dextran; blood coagulation; blood pressure; blood volume; arteries; veins; hypotension; ganglionic blocking agents; blood flow

HE-08838 DE WALL, RICHARD A., Chicago Med. Sch., Chicago, Ill. heart..myocardium; heart failure; heart surgery; perfusion; glucose; phosphocreatine; adenosine phosphates; muscle contraction

HE-08842 LEE, WILLIAM H., Jr., Med. Col. South Carolina, Charleston, S.C.
trauma; blood flow; hemagglutination; hemostasis; blood coagulation; proteins denaturation; blood proteins..plasma proteins; pulmonary function; hypovolemia; injuries..burns; myocardial infarct

HE-08847 HAGLIN, JOHN, Minneapolis Gen. Hosp., Minneapolis, Minn.
ischemia; lung transportation; pulmonary function; tissue preservation; primates..baboons

HE-08849 KIRKLIN, JOHN W., Mayo Assn., Rochester, Minn.
heart surgery; extracorporeal circulation..heart--lung bypass; blood circulation dynamics; heart function; kidney..glomerular filtration; endothelium permeability and transport; limbs; blood coagulation; radiolabeled iodine; radioisotopes..xenon 33

HE-08853 WILDER, ROBERT J., Sinai Hosp., Baltimore, Md.
hypothermia; extracorporeal circulation; blood circulation dynamics; heart valves; indicator dilution (concentration) techniques; cineradiography

HE-08929 ANLYAN, WILLIAM G., Duke Univ. Med. Cr., Durham, N.C.
research programs; thrombosis; thromboembolism; blood vessels prosthesis; blood vessels shunts.. portacaval shunt; venous occlusion; teflon; blood coagulation..anticoagulants; dextran; bone fractures; lymph nodes neoplasms; diagnostic tests; blood coagulation; lipids; surgery; vascular disorders

HE-08934 IDRISS, FAROUK S., Children's Mem. Hosp., Chicago, Ill.
blood vessels shunts; arteries..pulmonary artery; cardiovascular surgery; congenital abnormalities; cell adhesion

HE-08935 ZIMMERMAN, JACOB, St. Barnabas Hosp., Bronx, N.Y.
arteries..aorta; elasticity; heart surgery; valvular heart diseases..aortic insufficiency

HE-08946 WEBB, WATTS R., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
lung transplantation; heart transplantation; tissue preservation; transplantation rejection; thymectomy; splenectomy; pulmonary edema; contrast media; lymph flow; freezing; iodoacetate; antimetabolites

HE-08970 BAHNSON, HENRY T., Univ. Pittsburgh Health Cr., Pittsburgh, Pa.
congenital heart disease; cardiovascular diseases; heart valves prosthesis; extracorporeal circulation; blood coagulation..anticoagulants; infant human; heart transplantation; patient care; perfusion; valvular heart diseases

HE-08981 BERNSTEIN, EUGENE F., Univ. Minnesota Hospitals, Minneapolis, Minn.
heart..artificial heart; heart bypass; instrumentation-methodology; hemolysis; blood flow; blood cells

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SURGERY (CONTD)

HE-08999 ROSENBERG, HARVEY S., Texas Children's Hosp., Houston, Tex.
pulmonary hypertension; pulmonary circulation; arteries.. pulmonary artery; heart function; congenital heart disease ..septal defect; atmospheric pressure; infants, animals

HE-09024 WEINBERG, SIDNEY R., Jewish Hosp., Brooklyn, N.Y.
urinary tract disorders; ureteral motility; urinary bladder; electronic recording; ureteral obstruction; ureter; prosthesis; ureteral restoration

HE-09035 ZINTEL, HAROLD A., St. Luke's Hosp., New York, N.Y.
renal hypertension; blood vessels shunts..portacaval shunt; renal arterial occlusions and stenosis; blood flow; kidney..juxtaglomerular apparatus; proteases..renin; angiotensin; vasoactive agents

HE-09042 HERSHEY, S.G., New York Univ. Med. Cr., N.Y.C.
shock; therapy; peripheral vascular system; polypeptides; reticuloendothelial system; blood proteins..serum; vasoactive agents..vasopressors

HE-09053 WRIGHT, PHILIP W., Harbor Gen. Hosp., Torrance, Cal.
arteries..superior mesenteric artery; arterial stenosis; blood circulation dynamics; intestines; ischemia; diagnostic tests; radiolabeled phosphorus; therapy evaluation; sympathectomy; anesthesia; dextran; phenoxybenzamine; papaverine

HE-09083 ELLISON, ROBERT G., Med. Col. Georgia, Augusta, Ga.
electrolytes; heart--lung bypass; acidosis; hypovolemia; blood circulation dynamics; gas tensions; hypoxia; acid citric dextrose; lactates; pyruvates

HE-09092 MACKENZIE, JAMES W., Univ. Missouri Med. Cr., Columbia, Mo.
heart valves..aortic valve; heart transplantation; valvular heart diseases; tissue preservation; sterilization; dimethyl sulfoxide; instrumentation--methodology; infant animals

HE-09096 CRAYTHORNE, NORMAN W., West Virginia Univ. Med. Cr., Morgantown, W.Va.
anesthesia; acidosis; shock; cerebrovascular surgery; arteries..carotid arteries; pulmonary ventilation; gas tensions; lactates; pyruvates; vasoactive agents.. vasopressors; norepinephrine; neosynephrine; methoxamine; ephedrine; vasopressin

HE-09114 KARLSON, KARL E., Downstate Med. Cr., State University New York, Brooklyn, N.Y.
tissue preservation; lung transplantation; transplantation rejection; pulmonary ventilation; perfusion; arteries..pulmonary artery; hypothermia; hyperoxia

HE-09116 DALE, W. ANDREW, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
blood vessels restoration..tissue preservation; kidney transplantation; transplantation..homotransplantation; dacron; fabrics

HE-09137 LOMBARDO, CARLOS R., Sch. Med., Miami Univ., Miami, Fla.
therapy evaluation; peripheral vascular system; pulmonary arterial occlusions; thrombosis; perfusion blood flow; blood vessels shunts..arteriovenous shunt; endarterectomy

HE-09204 BUCKLEY, JOSEPH J., Univ. Minnesota Med. Cr., Minneapolis, Minn.
surgery..postoperative; heart surgery; extracorporeal circulation; pulmonary heart diseases; pulmonary function; pulmonary ventilation; hypoxia; oxygenation; gas tensions; therapy evaluation

HE-09207 WANTZ, GEORGE E., Cornell Univ. Med. Col., New York, N.Y.
blood vessels transplantation; transplantation.. autotransplantation; tensile strength; elasticity; elastin

HE-09211 WALDHAUSEN, JOHN A., Indiana Univ. Med. Cr., Indianapolis, Ind.
arteriovenous fistula; heart function; heart..atrium; arteries..pulmonary artery; blood flow; exercise; isoproterenol; hexamethonium compounds; radiolabeled iodine; heart intracardiac pressures; pulmonary circulation

HE-09218 SALTZMAN, HERBERT A., Duke Univ. Med. Cr., Durham, N.C.
oxygen inhalation therapy..hyperbaric oxygen therapy; instrumentation--methodology; gas tensions

HE-09223 KAY, JEROME H., Sch. Med., Univ. Southern California, Los Angeles, Cal.
valvular heart diseases; heart transplantation; heart valves..aortic valve; dacron

HE-09237 SPENCER, FRANK C., Col. Med., Univ. Kentucky, Lexington, Ky.
heart failure; shock; blood vessels shunts.. arteriovenous shunt; phenoxybenzamine; therapy evaluation; perfusion

HE-09243 WALDHAUSEN JOHN A., Indiana Univ. Med. Cr., Indianapolis, Ind.
lung transplantation; transplantation..autotransplantation; pulmonary function; arteries..bronchial arteries; arteries..pulmonary artery; veins..pulmonary veins; blood vessels restoration; vagotomy; pulmonary ischemia and hypoxia; lymphatic system

HE-09244 MANDELBAUM, ISIDORE, Indiana Univ. Med. Cr., Indianapolis, Ind.
heart--lung bypass; lung..alveolus; arteries.. bronchial arteries; capillaries; blood collateral circulation; pulmonary ventilation

HE-09253 PEIRCE, EDMUND C., II, Sch. Med., Emory Univ., Atlanta, Ga.
hypothermia; perfusion; heat exchanger; heart function; blood flow; capillaries; oxygen tension; peripheral vascular resistance; resuscitation; hibernation; dextran; glucose; mannitol; saline solutions

HE-09254 MANNICK, JOHN A., Boston Univ. Med. Cr., Boston, Mass.
blood flow; blood vessels prosthesis; transplantation.. autotransplantation; endarterectomy; transplantation rejection; sympathectomy; peripheral vascular disease; atherosclerosis; blood pressure; dacron; arteries

HE-09261 FROEB, HERMAN F., San Diego County Gen. Hosp., San Diego, Cal.
pulmonary body; respiration; pulmonary circulation; arteries..pulmonary artery

HE-09268 ANDERSEN, MURRAY N., E.J. Meyer Mem. Hosp., Buffalo, N.Y.
haptoglobins; hemoglobin; heart surgery; surgery.. postoperative; nephrotoxins; kidney function; radiolabeled chromium; reaction sites; mannitol..tris(hydroxymethyl)aminomethane; water loading; renal failure

HE-09277 ELLISON, LOIS T., Med. Col. Georgia, Augusta, Ga.
pulmonary function; lung..alveolus; surface properties; pulmonary ventilation; blood flow; gas tensions; lipids; radioisotopes; heart--lung bypass; pulmonary hypertension; lung transplantation; cardiovascular surgery

HE-09309 GOWEN, GEORGE F., Misericordia Hosp., Philadelphia, Pa.
extracorporeal circulation..heart--lung bypass; pump oxygenator; hypovolemia; vasoactive agents..vasodilators; blood transfusion..autotransfusion; dextran; phenoxybenzamine; oxygen; therapy evaluation; hemorrhagic shock

HE-09310 YEH, THOMAS J., Med. Col. Georgia, Augusta, Ga.
transplantation..autotransplantation; lung transplantation; pulmonary function; bronchospirometry; gases; pulmonary diffusion; transplantation..homotransplantation..methotrexate; surface active agents; 6--((1--methyl--4--nitro--5--imidazolyl)thio) purine

HE-09315 SABISTON, DAVID C., Jr., Duke Univ. Med. Cr., Durham, N.C.
coronary occlusions and thrombosis; heart..myocardium revascularization; atherosclerosis; cholesterol; thiouracil; diet; heart..myocardium; cardiovascular system

HE-09318 McCLELLAND, ROBERT N., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
portal hypertension; ascites; arteries..splenic artery; blood vessels transposition; blood flow; blood vessels resistance; liver function; surgery.. postoperative

HE-09319 MORGENSTERN, LEON, Cedars-Sinai Hosps., Los Angeles, Cal.
hemostasis; spleen; splenectomy; injuries..wound healing; surgical adhesives; collagen; collateral circulation; hematopoiesis; myelofibrosis

HE-09321 BANNETT, AARON D., Albert Einstein Med. Cr., Philadelphia, Pa.
perfusion; kidney transplantation; transplantation.. homotransplantation; tissue preservation; blood flow; hemolysis; electrolytes; kidney necrosis; papaverine; α--methyl DOPA; guanethidine

HE-09332 JUDE, JAMES R., Jackson Mem. Hosp., Miami, Fla.
pulmonary heart disease; resuscitation; artificial respiration; heart massage; cardioactive agents; pulmonary circulation

HE-09340 LAVER, MYRON B., Massachusetts General Hosp., Boston, Mass.
anesthesia; atelectasis; artificial respiration; hyperventilation, passive; respiratory failure; gas tensions; pulmonary function; pulmonary circulation; dead space; lung volume; oxygen inhalation therapy

HE-09341 ATTAR, SAFUH, University Hosp., Baltimore, Md.
blood coagulation..fibrinolysis; blood coagulation.. clot retraction; blood coagulation..anticoagulants; hemorrhagic shock; peritonitis; myocardial infarct; proteolysis; hyperbaric oxygen therapy; endothelium permeability; bradykinin

HE-09354 McKAIN, JOHN M., Sch. Med., Creighton Univ., Omaha, Nebr.
biliary tract restoration; cholesterol; lipids blood.. serum lipids; hyperlipemia..hypercholesteremia; atherosclerosis; radiolabeled carbon

HE-09361 MURPHY, JOHN J., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
renal hypertension; blood pressure; blood flow impedance; arteries..renal artery; renal arterial occlusions and stenosis; angiotensin; proteases.. renin; reaction sites; kidney..juxtaglomerular apparatus

HE-09374 SWAN, HAROLD J., Mayo Assn., Rochester, Minn.
heart..ventricles; heart..myocardium; heart function; heart enlargement..ventricular hypertrophy; heart intracardiac volume; stress; blood circulation dynamics; heart surgery; surgery..postoperative

HE-09375 McCLENAHAN, JAMES B., Palo Alto Med. Res. Fdn., Palo Alto, Cal.
heart--lung bypass; atelectasis; surface properties; pulmonary function; blood cells..erythrocytes; dextran; electrolytes; blood circulation dynamics; perfusion

HE-09381 HINSHAW, LERNER B., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
endotoxins; shock; adrenergic receptors; peripheral

HE-09385 KAHN, DONALD R., Univ. Michigan Med. Cr., Ann Arbor, Mich.
extracorporeal circulation; infant human; heart transplantation; pulmonary hypertension; blood vessels resistance; arteries..pulmonary artery; age; temperature

HE-09396 BAUE, ARTHUR E., Graduate Hosp., Univ. Pennsylvania, Philadelphia, Pa.
heart transplantation; transplantation..homotransplantation; tissue preservation; sterilization; prosthetic valves; x--rays; valvular heart diseases

HE-09402 JUDSON, WALTER E., Indiana Univ. Med. Cr., Indianapolis, Ind.
heart valves prosthesis; surgery..postoperative; therapy evaluation; blood circulation dynamics; water--electrolyte balance; kidney circulation; heart function; heart intracardiac pressures; valvular heart diseases; exercise; digitalis; isoproterenol; angiotensin

HE-09408 RAPPOLT, RICHARD T., Col. Med., Univ. Nebraska, Omaha, Nebr.
ascites; instrumentation; diffusion dialysis; therapy evaluation; ion exchange resins; abdomen.. intra--abdominal pressure; kidney function; exudates

HE-09409 JACKSON, BENJAMIN T., Sch. Med., Boston Univ., Boston, Mass.
aorta coarctation; blood flow; blood pressure; blood collateral circulation; kidney function; renal hypertension; proteases..renin; cardiovascular surgery; age; stress

HE-09491 FINLEY, THEODORE N., Univ. New Mexico, Albuquerque, N. Mex.
hyaline membrane disease, pulmonary; infant human.. newborn; phospholipids; blood; lung; extracorporeal circulation..heart--lung bypass; surface active agents

HE-09503 MARKLAND, ALAN C., Univ. Minnesota, Minneapolis, Minn.
hypothermia; renal ischemia and hypoxia; instrumentation--methodology; kidney function; transplantation..homotransplantation; kidney

HE-09535 SYMBAS, PANAGIOTIS N., Sch. Med., Emory Univ., Atlanta, Ga.
lymphatic system; heart..endocardium; heart valves; heart function; bacterial endocarditis; bacteria.. Staphylococcus; myosin; actin; arteriovenous fistula; arteries..iliac artery; veins

HE-09536 MOCKROS, LYLE F., Northwestern Univ., Evanston, Ill.
extracorporeal circulation; hemolysis; hemostasis; oxygen transport; ion exchange and transport; membrane..prosthetic membranes; gas tensions; blood flow; temperature; heart surgery

HE-09575 KAUFMAN, JOSEPH J., Sch. Med., Univ. California, Los Angeles, Cal.
renal ischemia and hypoxia; kidney function; renal arterial occlusions and stenosis; renal hypertension; angiography; blood vessels shunts.. splenorenal shunt; angiotensin; diagnostic tests

HE-09576 CRYSTAL, DEAN K., Pacific Northwest Res. Fdn., Seattle, Wash.
heart--lung bypass; hemodialysis; nephrectomy; instrumentation--methodology; gas tensions; membrane permeability and transport; membrane..prosthetic membranes; uremia; heart surgery; transplantation.. organ transplantation

HE-09609 COLGAN, FRANK J., Univ. Med. Cr., Rochester, N.Y.
lung volume; anesthesia; pulmonary airway resistance; pulmonary function; pulmonary ventilation; atelectasis; helium; gas tensions; surgery

HE-09634 NELSON, RUSSELL M., Latter-day Saints Hosp., Salt Lake City, Utah
heart bypass; heart surgery; valvular heart diseases; hemolysis; heart function; instrumentation; implants

HE-09642 BOLAND, JAMES P., Woman's Med. Col., Philadelphia, Pa.
blood; oxygenation; hydrogen peroxide; toxicology; pump oxygenator; extracorporeal circulation

HE-09667 SWAN, HENRY, Col. Vet. Med., Colorado State Univ., Fort Collins, Colo.
hemorrhage; blood circulation dynamics; splenectomy; temperature; cardioactive agents; vasoactive agents..vasodilators; vasoactive agents..vasopressors; heart--lung bypass; heart transplantation

HE-09681 EDMUNDS, L. HENRY, Jr., Virginia Mason Res. Cr., Seattle, Wash.
extracorporeal circulation; pulmonary function; surgery..postoperative; pulmonary congestion; surface active agents; pulmonary ventilation

HE-09687 MORSE, DRYDEN P., Albert Einstein Med. Cr., Philadelphia, Pa.
instrumentation; heart block..Stokes--Adams disease; electronic stimulators, radiofrequency controlled; heart..ventricles

HE-09688 REED, WILLIAM A., Univ. Kansas Med. Cr., Kansas City, Kans.
fatty acids; extracorporeal circulation; heparin; heart surgery; thrombosis; shock; hemostasis

HE-10052 PRENTISS, ROBERT J., San Diego County Gen. Hosp., San Diego, Cal.
urinary tract surgery; electrostimulus; muscle contraction; instrumentation--methodology

NB-02940 OWENS, GUY, Health Research, Inc., Buffalo, N.Y.
anesthesia; convulsions; diet; drugs interaction (synergism); embolism; ether; lipids; nervous system.. central nervous system; nitrogen mustards

NB-03138 McKISSOCK, WYLIE, Atkinson Morley's Hosp., London, England
cerebrovascular disorders; cerebral aneurysms; cooperative study

NB-03378 RAY, BRONSON S., Cornell Univ. Med. Col., N.Y.C.
extracorporeal circulation; heart arrest; hypothermia; neurosurgery

NB-03738 NANGERONI, LOUIS L., Col. Vet. Med., Cornell Univ., Ithaca, New York
anesthesia; acid-base equilibrium; blood sugar; nervous system..central nervous system; sympatholytic agents; ganglionic blocking agents; veterinary medicine; electronarcosis

NB-03751 SCOTT, F. BRANTLEY, Col. Med., Baylor Univ., Houston, Tex.
urination; spinal cord lesions; injury; muscle..perineal muscles; urinary bladder; urethra; longitudinal study

NB-03996 MORRIS, LUCIEN E., Providence Hosp., Seattle, Wash.
liver function; anesthetics; primates

NB-04815 HERIN, REGINALD A., Col. Vet. Med., Colorado State Univ., Fort Collins, Colo.
electronarcosis; anesthesia; electroencephalography; instrumentation--methodology

NB-04991 YOUMANS, JULIAN R., Med. Col. South Carolina, Charleston, S.C.
oxygen tension; electrodes..oxygen microelectrode; brain; injury..head injury; neurosurgery; anesthesia; arteries.. carotid arteries; blood pressure; muscle..skeletal muscle; arterial occlusions; blood vessels restoration

NB-05519 DE PALMA, ANTHONY F., Jefferson Med. Col. Philadelphia, Pa.
flatfoot; nerves..innervation; congenital abnormalities; joints; orthopedics; infant human

NB-05580 BASSETT, FRANK H., III, Duke Univ. Med. Cr., Durham, N.C.
bone deformities; cerebral palsy; bone..hip; bone..epiphyses; growth; muscles..skeletal muscle; muscle tension; nerves..denervation; immobilization; infant animals, neuromuscular disorders

TOXICOLOGY

AC-00108 VIETTI, TERESA J., Sch. Med., Washington Univ., St. Louis, Mo.
lead poisoning; children; diagnostic tests; epidemiology; chemotherapy; pica; lead; coproporphyrins; delta--aminolevulinic acid; fluorescence microscopy; blood cells.. erythrocytes; radiography; brain damage; sodium citrate; EDTA

AC-00150 GAST, JOSEPH H., Col. Sci., Univ. San Francisco, San Francisco, Cal.
bioassay; boric acid; boron compounds; fractionation; toxicology

AC-00184 KAYE, SIDNEY, Sch. Med., Univ. Puerto Rico, San Juan, P. R.
forensic medicine; alcoholism; ethanol; blood preservation

AC-00185 KIRK, PAUL L., Sch. Criminology, Univ. California, Berkeley, Cal.
drugs; food additives

AC-00211 HODGE, HAROLD C., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
information exchange; publications; poisoning; therapy; accidents

AI-02217 TERRIERE, LEON C., Sch. Agr., Oregon State Univ., Corvallis, Ore.
flies; detoxication; naphthalene; hydroxylation reactions; cell components..microsomes; insecticides

AI-02793 BLOCK, SEYMOUR S., Sch. Eng., Univ. Florida, Gainesville, Fla.
bactericides; fungicides; thiosulfonates; captan; chemical structure--biological activity

AI-02875 LEWALLEN, LAWRENCE L., California State Dept. Pub. Hlth., Berkeley, Cal.
choline esterases; esterases; genetic strains; insecticides resistance; metabolites; mosquitoes

AI-05808 GERSHON, HERMAN, Boyce Thompson Inst. Plant Res., Yonkers, N.Y.
cell; chelation; copper; fungicides; 8-hydroxyquinoline; membrane permeability; metal; radiolabeled carbon; reaction sites; stability constants; substitution reactions (chemistry); synthesis

AM-08084 DI LUZIO, NICHOLAS R., Sch. Basic Med. Sci., Univ. Tennessee Med. Units, Memphis, Tenn.
antioxidants; DPPD; fatty liver; lipids; lipogenic inhibitors; radiolabeled carbon; therapy evaluation; triglycerides

AP-00041 WOLTZ, SHREVE S., Univ. Florida, Bradenton, Fla.
air pollution; fluorides; plants; carbohydrates; amino acid; photosynthesis; tissue respiration

AP-00132 STEWART, WILLIAM S., California Arboretum Fdn., Arcadia, Cal.
air pollution; combustion exhausts; carrots; growth; plants; antioxidants; aerosols

AP-00189 WEINSTEIN, LEONARD H., Thompson Inst., Yonkers, N.Y.
air pollution; fluorides; plants; food

(contd)

LISTING OF GENERAL RESEARCH AREAS

TOXICOLOGY (CONTD)

AP-00205 THIENES, CLINTON H., Huntington Mem. Hosp., Pasadena, Cal.
air pollution; ozone; nitrogen oxides; sulfur dioxide; carbon monoxide; serotonin; decarboxylases.. 5-hydroxy-tryptophan decarboxylase; catecholamines; hypothyroidism; hyperthyroidism; enzyme inhibitors; lung

AP-00212 FRIBERG, LARS T., Sch. Med., Karolinski Inst., Stockholm, Sweden
air pollution; pulmonary function; aerosols; radiolabeled gold; sulfur dioxide; dust; cell components..ciliary movement; age

AP-00213 ORDIN, LAWRENCE, Sch. Agr., Univ. California, Riverside, Cal.
crops; oxidants; air pollution; ozone; growth inhibitors; cell components..cell wall; polysaccharides; auxins; cellulose; enzyme inhibitors; carboxylic nitrates; fluorides; phosphomutases..phosphoglucomutase

AP-00220 KEHOE, ROBERT A., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
aerosols; air pollution; combustion exhausts; lead; lead poisoning; occupational hazards; public health

AP-00230 HELWIG, HAROLD L., California State Dept. Pub. Hlth., Berkley, Cal.
air pollution; glucose; homeostasis; metabolites; radiolabeled carbon; respiration; tryptophan

AP-00260 SMITH, ROGER P., Dartmouth Med. Sch., Hanover, N.H.
hydrogen sulfide; occupational hazards; azides; methemoglobin; sulfmethemoglobin; cyanates; selenium; fluorides; sulfides; thiocyanates; boron compounds

AP-00272 DARLEY, ELLIS F., Univ. California, Riverside, Cal.
air pollution; dust; particle size; agriculture; crops; plants; plants diseases; chemical structure

AP-00276 MILLER, GENE W., Col. Sci., Utah State Univ., Logan, Utah
air pollution; carbon dioxide; cell components.. mitochondria; chemical structure--biological activity; enzymes inhibitors; fluorides; necrosis; plants; proteins; toxicology

AP-00312 HIBBEN, CRAIG, R., Kitchawan Res. Lab. of Brooklyn Botanic Garden, Ossining, N.Y.
air pollution; combustion exhausts; ozone; plants

AP-00341 PACK, MERRILL R., Washington State Univ., Pullman, Wash.
pesticides; hydrogen fluoride; bioassay; seeds; vegetables; fruit; crops; air pollution

CA-06120 AUTIAN, JOHN, College Pharm., Univ. Texas, Austin, Tex
polyvinyl chloride; nylon; packaging materials; drugs; prosthesis; carcinogenesis

CA-06578 BROWN, ELLIS V., Grad. Sch., Univ. Kentucky, Lexington, Ky.
o-amino-azotoluene analogs; carcinogens; p-dimethylaminoazobenzene analogs; genetic strains; hepatoma; heterocyclic compounds; synthesis

CA-09212 SHUBIK, PHILLIPPE, Chicago Med. Sch., Chicago, Ill.
carcinogenesis; carcinogens; dosage; environment

CC-00038 FUKUTO, T. ROY, Col. Agr., Univ. California, Riverside, Cal.
insecticides; enzymes; organophosphorus compounds; carbamates; enzyme inhibitors..anticholinesterase; insects; plants; methylenedioxyphenyl compounds; chemical structure--biological activity; detoxication

CC-00039 STERNBURG, JAMES G., Grad. Sch., Univ. Illinois, Urbana, Ill.
insecticides; nervous system..central nervous system; DDT; neurosecretion; chemical structure; chromatography

CC-00040 CASIDA, JOHN E., Sch. Agr., Univ. California, Berkeley, Cal.
insecticides resistance; flies; mosquitoes; genetics.. population genetics, animal; enzymes

CC-00042 COON, JULIUS M., Jefferson Med. Col., Philadelphia, Pa.
organophosphates; drugs; drugs tolerance; insecticides; neurotoxins; chlorinated hydrocarbons

CC-00061 RIDER, J. ALFRED, Franklin Hosp. Fdn., San Francisco, Cal.
organophosphates; insecticides; toxicology; choline esterase

CC-00102 HANSENS, ELTON J., Rutgers State Univ., New Brunswick, N.J.
insecticides resistance; population dynamics, animal; esterases; membrane permeability and transport; solvents; insecticides; genetic strains; chemical structure

EF-00002 ARANT, FRANK S., Sch. Agr., Auburn Univ., Auburn, Ala.
anthelmintics; chemical structure--biological activity; enzymes inhibitors..antiesterases; insecticides; parasitic diseases

EF-00006 GOLDBLITH, SAMUEL A., Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.
bacteria..Salmonella; egg proteins; food poisoning; heat lability; ionizing radiation; food; disease transmission

EF-00019 DAHM, PAUL A., Iowa State Univ., Ames, Iowa
insecticides; enzymes; cell components..microsomes; detoxication; carbamates; organophosphates; pyridine nucleotides; aldrin; heptachlor; hexachlorobenzene

EF-00020 WEISER, HARRY H., Ohio State Univ., Columbus, Ohio
age; antibiotics; bacteria..Mycoplasma; bacteria..Paracolobactrum; bacteria..Salmonella; cold; feeding; food poisoning; heat; immunity; poultry; stress; terephthalic acid

EF-00022 YANG, HOYA Y., Sch. Agr., Oregon State Col., Corvallis, Ore.
food preservation; vitamin K5; bacteria..Sarcina; bacteria..Escherichia coli; bacteria..Staphylococcus aureus; bactericides

EF-00029 GUNTHER, FRANCIS A., Col. Agr., Univ. California, Riverside, Cal.
food contamination; insecticides; toxicology

EF-00033 FANG, SHENG C., Oregon State Univ., Corvallis, Ore.
age; food contamination; herbicides; sex difference

EF-00049 LISKA, BERNARD J., Sch. Agr., Purdue Univ., Lafayette, Ind.
dairy products; food contamination; food processing; insecticides

EF-00077 SUGIYAMA, HIROSHI, Univ. Chicago, Chicago, Ill.
staphylotoxins; food poisoning; toxemias (non-specific); bioassay

EF-00079 CASTRO, CHARLES E., Univ. California, Riverside, Cal.
anthelmintics; microorganisms; soil; ecology (microorganisms); halides; germicides; nematodes.. plant nematodes

EF-00084 HAMMOND, EARL G., Iowa State Univ., Ames, Iowa
food quality; taste; unsaturated fats; oxidation.. auto-oxidation; esters; linolenic acid; linoleic acid; fractionation; chemical structure; cooking oils

EF-00092 JENNINGS, WALTER G., Grad. Sch., Univ. California, Davis, Cal.
food additives; pepper oil, Piper; chemical structure; antibiotics; taste; fractionation; fruit; organic compounds

EF-00105 FREED, VIRGIL H., Agr. Exptl. Sta., Oregon State Univ., Corvallis, Ore.
fish; ecology, animal; poison; enzymes; nervous system; tissue respiration; food; growth

EF-00107 GOOD, ERNEST E., Col. Agr., Ohio State Univ., Columbus, Ohio
breeding cycles; chemical structure--biological activity; insecticides; population dynamics (animal); reproduction; sex difference

EF-00110 CORDEN, MALCOLM E., Oregon State Univ., Corvallis, Ore.
food contamination; soil pollution; irrigation (agriculture); plants; water pollution; insecticides residue; fungicides

EF-00126 ORDAL, Z. JOHN, Univ. Illinois, Urbana, Ill.
food poisoning; bacteria..Staphylococcus aureus; cheese; staphylotoxins; food processing

EF-00129 FOLTZ, VERNON D., Kansas State Univ., Manhattan, Kansas
food contamination; dairy products; bacteria..Staphylococcus; food processing

EF-00131 STRONG, DOROTHY H., Sch. Home Ec., Univ. Wisconsin, Madison, Wis.
food poisoning; food contamination; bacteria..Clostridium perfringens; temperature

EF-00154 BERRY, CLYDE M., Inst. Agr. Med., State Univ. Iowa, Iowa City, Iowa
screening; cell culture; insecticides

EF-00156 PRATT, HARLAN K., Col. Agr., Univ. California, Davis, Cal.
fruit; tissue respiration; auxins; gibberellin; ethylene; carbon dioxide; oxygen; adenosine phosphates; radiolebeled carbon; food processing

EF-00157 LUH, BOR S., Col. Agr., Univ. California, Davis, Cal.
p-chlorophenoxy acetic acid; (2,4-dichlorophenoxy) acetic acid; food contamination; food preservation; fruit; growth hormones; 2,4,5-trichlorophenoxyacetic acid

EF-00168 LICHTENSTEIN, E.P., Sch. Agr., Univ. Wisconsin, Madison, Wis.
insecticides residue; soil; crops; food contamination

EF-00171 LIPPOLD, PAUL C., New York State Agr. Exp. Station, Geneva, N.Y.
esterases; ovum; carboxylic ester hydrolases..carboxylic ester hydrolases (aliesterase); organophosphates; insecticides; DEAE cellulose chromatography; age; poisoning; petroleum oils; respiration

EF-00177 MILLER, VERNON L., Washington State Univ., Puyallup, Wash.
heavy metals; mercury; detoxication; reaction sites; hormones; radioisotopes..uranium

EF-00179 WATTS, BETTY M., Sch. Home Ec., Florida State Univ., Tallahassee, Fla.
phospholipids; oxidation; ionizing radiation; sterilization; antioxidants; meat; radiation effects; vegetables; flavonoids; lipids; malonaldehyde; oxidoreductases.. lipoxidase

EF-00182 DAY, EDGAR A., Sch. Agr., Oregon State U., Corvallis, Ore.
carbonyl compounds; fats; oils; oxidation..auto-oxidation; chemical structure; food processing

EF-00183 ZWEIG, GUNTER, Col. Agr., Univ. California, Davis, Cal.
agriculture; insecticides; enzyme inhibitors..anticholinesterase; choline esterases; radiolabeled carbon; (2,4--dichlorophenoxy) acetic acid; naphthaleneacetic acid

EF-00187 MAAG, D.D., Sch. Sci., Arts, Colorado State Univ., Fort Collins, Colo.
selenium; alfalfa; geographical sites..Colorado; geographical sites, Wyoming

EF-00193 LINCK, ALBERT J., Grad. Sch., Univ. Minnesota, St. Paul, Minn.
Mexican jumping bean; insecticides residues; copper; radiolabeled copper; temperature; membrane permeability and transport; toxins; food contamination; plants

EF-00194 **CANDAU, MARCELINO G., World Hlth. Organization Geneva, Switzerland**
World Health Organization· insecticides· insecticides resistance; malaria; cooperative study; genetics· information exchange

EF-00197 **SHERMAN, MARTIN, Col. Tropical Agri. Univ. Hawaii, Honolulu, Hawaii**
poultry; insecticides· flies

EF-00199 **SPARKS, ALBERT K., Col. Fisheries, Univ. Washington, Seattle, Wash.**
coastal waters; ecology, animal; seafood; seasonal variation; toxicology

EF-00205 **HANSEN, POUL M.T., Col. Agr., Ohio State Univ., Columbus, Ohio**
food processing; milk; proteins denaturation; heat lability

EF-00206 **GOULD, IRA A., Col. Agr., Ohio State Univ., Columbus, Ohio**
milk; food processing; casein; fractionation; lipases; fatty acids

EF-00212 **PEARSON, A.M., Grad. Sch. Agr., Michigan State Univ., East Lansing, Mich.**
meat; odor; sex difference· fats· taste· food quality

EF-00213 **HEWITT, WILLIAM B., Col. Agr., Univ. California, Davis, Cal.**
food contamination; food processing; fungi..plant fungi; fruit; alcoholic beverages

EF-00214 **BURG, STANLEY P., Sch. Med., Univ. Miami, Coral Gables, Fla.**
fruit; ethylene; plants hormones; growth; food preservation

EF-00216 **BANNER, ALBERT H., Univ. Hawaii, Honolulu, Hawaii**
ichthyosarcotoxins..ciguatera; food poisoning; toxins; geographical sites..Pacific Islands; fish

EF-00219 **DAVIS, DONALD E., Sch. Agr., Auburn Univ., Auburn, Ala.**
herbicides; 2--chloro--4,6--bis(ethylamino) --s--triazine; 2--chloro--4--ethylamino--6--isopropylamino--s--triazine; plants; respiratory enzymes; metabolites; radiolabeled; chromatography

EF-00222 **JOHNSON, PAUL E., Natl. Acad. Sci., Washington, D.C.**
publications..monograph; food additives; chemical structure--biological activity

EF-00224 **SCHEUER, PAUL J., Univ. Hawaii, Honolulu, Hawaii**
ichthyosarcotoxins; fish; chemical structure--biological activity· hypotension· dyspnea

EF-00225 **PERKINS, EDWARD G., Grad. Sch., Univ. Illinois, Urbana, Ill.**
cooking oils; fatty acids; glycerides; heat lability; oxidation

EF-00258 **WRIGHT, SYDNEY E., Sch. Pharm., Univ. Sydney, Sydney, Australia**
food additives; azo compounds; bile; radiolabeled carbon; tritium; antioxidants; aromatic amines; insecticides

EF-00260 **BANNER, ALBERT H., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii**
antidotes; seafood poisoning; geographical sites.. Pacific Islands; ichthyosarcotoxins..ciguatera; medicinal plants

EF-00266 **CAIRNS, JOHN, Jr., Acad. Natural Sci., Philadelphia, Pa.**
organic compounds; fish

EF-00269 **DAY, EDGAR A., Oregon State Univ., Corvallis, Ore.**
cheese; fats; fractionation; proteins; taste

EF-00281 **AKESSON, NORMAN B., Col. Agr., Univ. California, Davis, Cal.**
air pollution· soil pollution· pesticides· fluorescent dyes; aerosols; powders; air flow (meteorology)· plants

EF-00288 **MITCHELL, JOHN E., Col. Agr., Univ. Wisconsin, Madison, Wis.**
fungicides· fruit· food contamination

EF-00292 **SNYDER, HARRY E., Col. Agr., Iowa State Univ., Ames, Iowa**
meat· food preservation· antioxidants· oxidation auto-oxidation; myoglobin; growth, microorganisms; sodium malonate· temperature· spectrophotometry

EF-00305 **WOGAN, GERALD N., Massachusetts Inst. Tech., Cambridge, Mass.**
anorexia; chemical structure--biological activity; edema (generalized); food additives; food poisoning; primates.. monkeys; saturated fats; solubility; unsaturated fatty acids

EF-00314 **GOLDBLITH, SAMUEL A., Sch. Sci., Mass. Inst. Tech., Cambridge, Mass.**
food contamination· food processing· freeze-drying· microorganisms

EF-00319 **CAVILL, GEORGE W.K., Sch. Chem., Univ. New South Wales, Kensington, Australia**
chemical structure--biological activity; geographical sites..Australia; insects control; odors; pheromones; phylogeny; synthesis; venoms

EF-00352 **YAMAMOTO, HARRY Y., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii**
ascorbic acid; fruit; food preservation; sulfur dioxide; browning reaction

EF-00357 **ZWEIG, GUNTER, Col. Agr., Univ. California, Davis, Cal.**
herbicides; triazines; urea; anilines; bacteria.. Rhodospirillum rubrum; bacteria..Chromatium; algae.. Chlorella; photosynthesis; photochemistry; enzymes; oxidative phosphorylation; reaction sites; fluorescence; carbondioxide fixation; pyridines; reduction

EF-00366 **AURAND, LEONARD W., Sch. Agr., North Carolina State Col., Raleigh, N.C.**
beta rays; fatty acids; flavin; food poisoning; free radicals; gamma rays; metal complexes; oxidases; oxidation..auto-oxidation; radiolabeled; radiation effects

EF-00376 **KAREL, MARCUS, Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.**
food processing; freeze-drying; oxidation..autooxidation; lipids; antioxidants; water; browning reaction; dehydrated foods

EF-00378 **SPECK, MARVIN L., Sch. Agr., North Carolina State Univ., Raleigh, N.C.**
spores; bacteria; milk; sterilization; heat; growth, microorganisms

EF-00383 **BORGSTROM, GEORGE, Michigan State Univ., East Lansing, Mich.**
frozen foods; bacteria; growth, microorganisms; temperature

EF-00415 **DAUTERMAN, WALTER C., Sch. Agr., North Carolina State Col., Raleigh, N.C.**
insecticides; organophosphates; enzymes; enzymes substrate; chemical structure--biological activity; radiolabeled phosphorus; radiolabeled carbon; radiolabeled sulfur

EF-00420 **CARTER, MASON C., Sch. Agr., Auburn Univ., Auburn, Ala.**
3--amino--1H--1,2,4--triazole; metabolites; plants; radiolabeled carbon; amino acids; formates; glyoxalate; synthesis

EF-00424 **TARASSUK, NIKITA P., Univ. California, Davis, Cal.**
lipases· milk· food quality

EF-00429 **ANGLEMIER, ALLEN F., Sch. Agr., Oregon State Univ., Corvallis, Ore.**
food preservation; meat; muscle proteins; hydration (body fluids); ion exchange; sterilization

EF-00435 **Bratzler, L.J., Col. Agr., Michigan State Univ., East Lansing, Mich.**
carcinogens; chemical structure; food additives; food processing; hydrocarbons; meat; polycyclic compounds; taste

EF-00438 **DODGEN, CHARLES L., Univ. Mississippi Med. Cr., Jackson, Miss.**
insecticides· ethyleneimines· alkylating agents· fertility

EF-00449 **SALUNKHE, D.K., Utah State Univ., Logan, Utah**
chemical structure; environment; food processing; fruit; smell; taste

EF-00454 **AXTELL, RICHARD C., North Carolina State Col., Raleigh, N.C.**
insects control; insecticides; parasites; mites; flies; biological control

EF-00459 **KOSIKOWSKI, FRANK V., Col. Agr., Cornell Univ., Ithaca, N.Y.**
bacteria..Escherichia coli; bacteria..Aerobacter aerogenes; cheese; milk; sterilization; heat lability; enzymes; gastrointestinal disorders; taste; hydrogen peroxide; catalase; food; food preservation; fermentation; dairy products; toxin; food quality

EF-00467 **SMITH, GEORGE E., Univ. Missouri, Columbia, Missouri**
nitrates· fertilizers· nitrogen· crops· plants· diet

EF-00473 **WICK, EMILY L., Mass. Inst. Technology, Cambridge, Mass.**
food quality; taste; odors; sensory mechanisms; organic compounds; fractionation; functional groups; chemical structure

EF-00474 **BENNETT, HARRY J., Col. Arts, Sci., Louisiana State Univ., Baton Rouge, La.**
pesticides; chlordane; hexachlorobenzene; DDT; malathion; parathion; respiration; seafood; bioassay; oxygen consumption; marine biology

EF-00500 **REED, RAYMOND E., Col. Agr., Univ. Arizona, Tucson, Ariz.**
nitrites· poisoning· methemoglobinemia; death· blood cells..erythrocytes; hematopoiesis..erythropoiesis

EF-00531 **SCHANDERL, SIGMUND H., Col. Agr., Michigan State Univ., East Lansing, Mich.**
chlorophyll; food processing; fruit; heat lability; oxidases; vegetables

EF-00532 **DAY, EDGAR A., Sch. Agr., Oregon State Univ., Corvallis, Ore.**
milk; taste; heat; food processing; chemical structure

EF-00543 **STREET, JOSEPH C., Col. Agr., Utah State Univ., Logan, Utah**
insecticides; dieldrin; methoxychlor; DDT; detoxication; adipose tissue; chemical structure--biological activity; chlorinated hydrocarbons

EF-00547 **ALEXANDER, MARTIN, Col. Agr., Cornell Univ., Ithaca, N.Y.**
herbicides; soilborne microbes; toxicology; silage; crops; food contamination; microbial culture; phenolic acids

EF-00567 **FRANCIS, FREDERICK J., Col. Agr., Univ. Massachusetts, Amherst, Mass.**
pigments; chlorophyll; vegetables; spinach; food processing; heat; instrumentation--methodology; taste; peroxidases; microorganisms

EF-00569 **MITCHELL, H.L., Col. Agr., Kansas State Univ., Manhattan, Kans.**
nitrates; toxicology; plants; reductases..nitrate reductase; molybdenum; environment; genetics..genotypes; soil; food; cattle

(contd)

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TOXICOLOGY (CONTD)

EF-00571 HUNT, ELDRIDGE G., California Dept. of Fish and Game, Sacramento, Cal.
birds: reproduction: DDT: insecticides residue: chemical structure--biological activity; egg hatching; population dynamics. animal: geographical sites. California

EF-00574 FANG, SHENG C., Sch. Agr., Oregon State Univ., Corvallis, Ore.
organometallic compounds; aryl mercurials: synthesis: fungicides; plants; chemical structure--biological activity; functional groups; radiolabeled carbon; radiolabeled mercury

EF-00600 OLCOTT, HAROLD S., Col. Agr., Univ. California, Berkeley, Cal.
insecticides..DDT: insecticides..DDD: insecticides.. dieldrin; insecticides..heptachlor; chlorinated hydrocarbons; aquatic animals; bioassay; geographical sites..Pacific coast: insecticides residue: food contamination

EF-00611 RALLS, JACK W., National Canners Assn., Berkeley, Cal.
pesticides; diazinon; crops; food contamination; food processing: food preservation

EF-00614 RAY, SAMMY M., A. and M. Marine Laboratory, Ft. Crockett, Galveston, Texas
protozoa..dinoflagellates: marine biology: toxins: seafood poisoning; epidemiology; host-parasite; geographical sites..Gulf of Mexico

EF-00615 GRAHAM, HORACE D., Col. Agr., Mechanic Arts, Univ. Puerto Rico, Mayaguez, P.R.
food additives: colloids: carrageenan: stabilizers: emulsions; milk; dairy products; proteins; vitamins; amino acids: casein

EF-00619 McINTOSH, THOMAS H., Col. Agr., Univ. Arizona, Tucson, Ariz.
triazines; herbicides; soil; fractionation; chemical bonds.. bond cleavage: hydrogen bond: covalent bonds

EF-00627 WITT, JAMES M., Col. Agr., Univ. Arizona, Tucson, Ariz.
pesticides; dosage; environment; time; respiration; food: air pollution: milk: lactation: DDT: insecticides residue

EF-00628 MILLEMANN, RAYMOND E., Agr. Exptl. Station, Oregon State Univ., Corvallis, Ore.
insecticides; sevin; aquatic animals; insecticides residue: coastal waters

EF-00629 KRONSTAD, WARREN E., Oregon State Univ., Corvalis, Ore.
pesticides; genetics..chromosomes; mutation; injuries; population dynamics. plants: plants

EF-00639 CURL, ELROY A., Sch. Agr. Auburn Univ., Auburn, Alabama
herbicides: soilborne microbes: microbial culture: population dynamics, microorganisms; 1,3,5--triazines: chemical structure--biological acitivity

EF-00652 NEWLIN, HARRISON E., Midwest Research Inst., Kansas City, Mo.
conferences: food: antimetabolites: toxins: travel: geographical sites..Missouri

EF-00663 OWENS, ROBERT G., Boyce Thompson Inst., Yonkers, N.Y.
toxins; fungi..Aspergillus flavus; grain; seeds; food contamination: bioassay: chemical structure--biological activity; instrumentation--methodology; reaction sites: enzymes

EF-00668 SPECK, MARVIN L., North Carolina State of Univ. North Carolina, Raleigh, N.C.
forzen foods: bacteria: food contamination: freezing: microbial culture: culture media

EF-00669 HILL, ROBERT M., Grad. Col., Univ. Nebraska, Lincoln, Nebr.
nitrates: toxicology: crops: silage: fermentation: oxidoreductases..nitrate reductase; aerobiosis; anaerobiosis: food contamination

EF-00676 JOHANSEN, CARL A., Grad. Sch., Washington State Univ., Pullman, Wash.
food contamination: insecticides residue: legumes: toxicology

EF-00722 ISSENBERG, PHILLIP, Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.
food processing: food additives: meat: gases

EF-00749 CRUMP, MALCOLM H., Col. Vet. Med., Iowa State Univ., Ames, Iowa
toxins: fungi..Rhizoctonia leguminicola: fungi.. Fusarium: toxicology: diagnostic tests: food poisoning

EF-00753 BISWAS, PROSANTO K., Sch. Agr., Tuskegee Inst., Tuskegee Institute, Ala.
herbicides: trifluralin: metabolites: bioassay: crops: toxicology

EF-00766 SCHULTZ, HAROLD W., Sch. Agr., Oregon State Univ., Corvallis, Ore.
conferences..international meetings: publications: food; taste; food quality; food processing; food preservation: geographical sites..Oregon

ES-00013 GESSNER, TERESA, Sch. Pharm., State Univ., New York, Buffalo, N.Y.
pesticides: synthesis: detoxication: chemical structure--biological activity; thiols; sulfur compounds: disulfides

ES-00024 MEDLER, JOHN T., Col. Agr., Univ. Wisconsin, Madison, Wis.
auxins; beans; cell differentiation; plants..leaves; saliva; tissue culture: toxins

ES-00037 MICHAELI, DOV, Kaiser Fdn. Hosp., San Francisco, Cal.
choline esterases..acetylcholinesterase; blood cells.. erythrocytes; immunology..antigen-antibody reactions; proteins; chemical structure: insecticides

ES-00048 ZAVON, MITCHELL R., Kettering Lab., Cincinnati, Ohio
insecticides; chlorinated hydrocarbons; fats; reaction sites: body composition: autopsy

ES-00049 CASIDA, JOHN E., Col. Agr., Univ. California, Berkeley, Cal.
insecticides: rotenone: methyleredioxyphenyl compounds: toxicology; drugs interaction; synthesis; alkylation; bioassay; radiolabeled carbon; cell components.. microsomes: enzyme inhibitors: NADPH2: metabolites: detoxication: carcinogens: carcinogenesis: beans

ES-00060 WHITE, JOE L., Agr. Expt. Station, Purdue Univ., Lafayette, Ind.
pesticides; soil; colloids; chemical structure--biological activity; x--ray diffraction; infrared spectrometry; gas chromatography

ES-00061 LORBER, MORTIMER, Sch. Med., Georgetown Univ., Washington, D.C.
insecticides; toxicology; air pollution; hematopoiesis; bone marrow; blood cells..leukocytes; blood cells.. erythrocytes; blood cells..reticulocytes; blood cells.. thrombocytes; hematocrit; splenectomy

ES-00063 HAYNE, DON W., Sch. Agr., North Carolina State of UNC, Raleigh, N.C.
population dynamics. animal: insecticide residues: insecticides..DDT; survey; environment; statistics; bioassay

ES-00067 MATSUMURA, FUMIO, Col. Agr., Univ. Wisconsin, Madison, Wis.
insecticides: detoxication: enzymes: organophosphorus compounds; chlorinated hydrocarbons; 1-6 insecticides ..dieldrin

ES-00071 BISHOP, JACK L., Col. Agr., Virginia Polytechnic Inst. Blacksburg, Va.
cockroaches: genetic strains: insecticides resistance: enzymes: detoxication: DDT

ES-00075 NEAL, ROBERT A., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
insecticides..parathion: organophosphorus compounds: detoxication; cell components..microsomes; liver; enzyme inhibitors; NADP(H2); stable isotope labeled oxygen

ES-00078 CORY, LAWRENCE, Brother, St. Mary's Col., St. Mary's College, Cal.
pesticides: insecticides residues: chlorinated hydrocarbons; geographical sites..California; environment; atmosphere; air flow (meteorology); air pollution: adipose tissue: carcinogenesis

ES-00083 ADAMS, RUSSELL S., Jr., Univ. Minnesota, St. Paul, Minn.
soil sampling: soil pollution: herbicides; salts: fertilizers: pesticides

ES-00084 MURPHY, SHELDON D., Harvard Sch. Pub. Hlth., Boston, Mass.
pesticides: organophosphorus compounds: chlorinated hydrocarbons: enzyme inhibitors: bioassay

ES-00085 DOROUGH, H. WYMAN, Sch. Agr., Texas AM Univ., College Station, Tex.
carbamates: insecticides: metabolites: insecticides resistance; enzyme inhibitors..anticholinesterase; detoxication; tritium; radiolabeled carbon; radiolabeled phosphorus: oxidation

ES-00086 FERGUSON, DENZEL E., Col. Arts, Sci., Mississippi State Univ., State College, Miss.
insecticides resistance: ecology..animal; genetics; drugs tolerance; drugs interaction; insecticides.. DDT; chlorinated hydrocarbons; insecticides..aldrin; insecticides..parathion

ES-00087 GETZIN, LOUIS W., Western Washington Experiment Sta., Puyallup, Wash.
organophosphorus compounds: insecticides: soil pollution; microorganisms; temperature; molecular structure: solubility: radiolabeled carbon

ES-00088 LOW, MANFRED J.D., Sch. Chem., Rutgers State Univ., New Brunswick, N.J.
pesticides: soil: soil pollution: surface properties; adsorption; instrumentation--methodology; radiation effects; solar radiation; stereochemistry; benzene

ES-00089 BARTLETT, BLAIR R., Col. Agr., Univ. California, Riverside, Cal.
pesticides: population dynamics. animal: biological control: fertility: classification

ES-00102 COCHRAN, DONALD G., Va. Polytechnic Inst., Blacksburg, Va.
insecticides resistance: cockroaches: genetics

ES-00103 SHELLENBERGER, THOMAS E., Stanford Res. Inst., Menlo Park, Cal.
toxicology: pesticides: insecticides residue: insecticides..dieldrin; insecticides..heptachlor; DDT: reproduction: growth: diet

GM-06111 TAHORI, ALEXANDER S., Israel Inst. Biological Research, Ness-Ziona, Israel
insecticides resistance: fluoroacetates: metabolites: tissue respiration: muscle, sarcosomes

GM-07006 SINNHUBER, RUSSELL O., Sch. Agr., Oregon State Univ., Corvallis, Ore.
blood cells..erythrocytes: carbonyl compounds: diet: fish oils; glycine; hemoglobin; malonaldehyde; tetraethoxypropane

GM-07152 **FOX, IRVING**, Sch. Med., Univ. Puerto Rico, San Juan, P.R.
insecticides resitance; DDT; dieldrin; mosquitoes; genetics

GM-07642 **WRIGHT, MADISON J.**, New York State Col. Agr., Cornell Univ., Ithaca, N.Y.
nitrates; corn; veterinary medicine; oats; methemoglobin

GM-07789 **BRIN, MYRON**, Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
radiolabeled carbon; tritium; toxins

GM-07804 **O'BRIEN, RICHARD D.**, New York State Col. Agr., Cornell Univ., Ithaca, N.Y.
insecticides; insecticides resistance; organophosphates; carbamates; fluoroacetates; choline esterases; hydrolases; chemical structure--biological activity; neuromuscular system

GM-07891 **CHADWICK, LEIGH E.**, Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
choline esterases; proteins denaturation; bioassay; enzymes inhibitors, anticholinesterase; insecticides

GM-09086 **SHRIFT, ALEX**, Kaiser Fdn. Res. Inst., Richmond, Cal.
Astragalus (bot.); chemical structure--biological activity; growth inhibitors; microorganisms; plants; selenium; sulfates

GM-10154 **KIKKAWA, HIDEO**, Sch. Med., Osaka Univ., Osaka, Japan
insecticides resistance; mutations; genetics; DDT; parathion; diazinon; phenylthiourea; sevin

GM-10896 **LEVINSON, ZVI H.**, Hebrew Univ., Jerusalem, Israel
growth hormones; juvenile hormone; ecdysone; life cycle; reproduction; growth inhibitors; farnesol; stereoisomers; diet; synthesis; insects control

GM-11491 **SKINNER, WILFRED A.**, Stanford Res. Inst., Menlo Park, Cal.
alkylating agents; antifertility factors; bioassay; chemical structure..biological activity; functional groups; reproduction; synthesis

GM-11505 **BRADFORD, LOWELL W.**, Lab. of Criminalistics, San Jose, Cal.
forensic medicine; drugs classification; poison; narcotics; classification

GM-11772 **ORGELL, WALLACE H.**, Florida Atlantic Univ., Boca Raton, Fla.
enzymes inhibitors..anticholinesterase; molecular structure; plants

GM-12540 **BLOOMFIELD, RICHARD A.**, Sch. Agr., Univ. Missouri, Columbia, Mo.
ammonia intoxication; heart rate; respiration; blood pressure; brain; liver; hydrogen--ion concentration; carbon dioxide; detoxication; stable isotope labeled nitrogen; ammonia

GM-12662 **GABRIELI, ELEMER R.**, Sch. Med., State Univ. New York, Buffalo, N.Y.
insecticides..dieldrin; liver function; reticuloendothelial system; proteins; cell components..microsomes; phagocytosis; chemical structure--biological activity; drugs; 4--iodoantipyrine; diagnostic tests

GM-12854 **CORNISH, HERBERT H.**, Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.
enzymes..isoenzymes; tissue; injuries; serology; organic compounds; heavy metals; instrumentation--methodology; acrylamide gel electrophoresis; diagnostic tests

GM-12999 **GREENE, FRANK E.**, Sch. Med., West Virginia Univ., Morgantown, W. Va.
insecticides..heptachlor; epoxidation; toxicology; cell components..microsomes; sex difference; species; drugs interaction

HD-01265 **KILGORE, WENDELL W.**, Col. Agr., Univ. California, Davis, Cal.
antimetabolites; alkylating agents; insecticides; 5-fluorouracil; flies; fertility; ovum

HD-01584 **HARDY, HARRIET L.**, Massachusetts Inst. Tech., Cambridge, Mass.
lead poisoning; children; diagnostic tests; psychometrics; chelating agents; penicillamine; environment

HE-08681 **ALLEN, JAMES R.**, Sch. Med., Univ. Wisconsin, Madison, Wis.
cardiovascular diseases; deoxyribonucleic acid; edema, generalized; fats; heart..myocardium; liver; primates.. monkeys; ribonucleic acid; toxins; tritium

HE-09467 **GISCLARD, J. BRENNAN**, Grandview Hosp., Dayton, Ohio
laboratory facilities; polarography; diagnostic tests; toxicology; body fluids; metabolites; chlorides; calcium; ions

MH-03692 **CORNISH, HERBERT H.**, Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.
diphenylmethane; triphenylmethanes; hydroxylation reactions; enzymes

NB-04541 **WAY, JAMES L.**, Sch. Med., Marquette Univ., Milwaukee, Wis.
alkylphosphates; enzymes inhibitors..anticholinesterase; hydroxamic acid; neurotoxins; oximes; toxicology

NB-05544 **LUMB, WILLIAM V.**, Col. Vet. Med., Colorado State Univ., Fort Collins, Colo.
bromochlorotrifluoroethane; chloroform; toxins; instrumentation--methodology; liver damage; veterinary medicine; anesthesia

OH-00005 **BAETJER, ANNA M.**, Sch. Hygiene and Pub. Hlth., Johns Hopkins U., Baltimore, Md.
dehydration (body fluids); blood; tissue; lead poisoning; occupational diseases

OH-00028 **CORNISH, HERBERT H.**, Sch. Pub. Hlth., U. Michigan, Ann Arbor, Mich.
occupational hazards; organic compounds; solvents; enzymes inhibitors

OH-00060 **GRIGGS, ROBERT C.**, Metropolitan Gen. Hosp., Cleveland, Ohio
lead poisoning; hematopoietic tissues; kidney disorders; chelating agents

OH-00079 **GOLDWATER, LEONARD J.**, Sch. Pub. Hlth., Admin. Med., Columbia Univ., N.Y.C.
arsenic; lead; mercury

OH-00099 **CORNISH, HERBERT H.**, Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.
occupational hazards; ethanolamines; choline inhibitors; lipids..serum lipids; liver damage; hepatotoxins

OH-00103 **RADFORD, EDWARD P., Jr.**, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
occupational hazards; ionizing radiation; radiation effects; age; pulmonary function; kidney function; liver function; neuromuscular system; screening

OH-00115 **NAU, CARL A.**, Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
occupational hazards; rubber; dust; carcinogens; air pollution

OH-00117 **HEIMBERG, MURRAY**, Sch. Med., Vanderbilt Univ., Nashville, Tenn.
carbon tetrachloride; epinephrine; fats; fatty acids; fatty liver; norepinephrine; perfusion; phospholipids; radiolabeled carbon; reserpine; sympatholytic agents; triglycerides; tritium

OH-00124 **LEIBMAN, KENNETH C.**, Col. Med., Univ. Florida, Gainesville, Fla.
trichloroethylene; trichloroacetate; trichloroethanol; oxidation; molecular rearrangement; chloral hydrate; radiolabeled; detoxication; cell components..microsomes; liver

OH-00148 **BOETTNER, EDWARD A.**, Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.
plastics; heat; chemical structure--biological activity; respiratory system; public health; gases; occupational hazards; combustion exhausts

OH-00156 **BRIEGER, HEINRICH**, Jefferson Med., Col., Philadelphia, Pa.
cobalt; urine; blood; monitoring; occupational hazards; air pollution; carbonyl compounds; metal; diurnal variation

OH-00165 **STEMMER, KLAUS L.**, Col. Med., Univ. Cincinnati, Cincinnati, Ohio
occupational hazards; industrial wastes; chromium; iron; alloys; proteins; solutions; binding; reaction sites; immunology; respiratory diseases

OH-00176 **MURPHY, SHELDON D.**, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
air pollution; stress; phosphomonoesterases..alkaline phosphatase; liver; ozone; adrenalectomy; hypophysectomy; aldehydes; adrenal cortex hormones; proteins; glycogen; hepatotoxins; aminotransferases.. tyrosine transaminase

OH-00182 **SPERLING, FREDERICK**, Col. Med., Howard Univ., Washington, D.C.
turpentine; vapors; toxicology; occupational hazards; respiration; heart function; body temperature

OH-00191 **BATTIGELLI, MARIO C.**, Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
combustion exhausts; dosage; occupational hazards; irritants; criteria; pulmonary function; eye; physical fitness

OH-00199 **CEMBER, HERMAN**, Northwestern Univ., Evanston, Ill.
mercury; mercury poisoning; occupational hazards; kidney..renal tubular transport; intestinal absorption; dosage; bioassay

OH-00210 **SNYDER, ROBERT**, Jefferson Med. Col., Philadelphia, Pa.
benzene; toxicology; reaction sites; metabolites; bone marrow; brain; cell components; enzymes; phenols; conjugates

OH-00213 **METCALF, DAVID R.**, Univ. Colorado Med. Cr., Denver, Colo.
pesticides; occupational hazards; toxicology; industry; agriculture; chlorinated hydrocarbons; organophosphorus compounds; enzyme inhibitors.. anticholinesterase; longitudinal study; diagnostic tests; psychological tests; nervous system..central nervous system; electroencephalography; computer analysis; glaucoma; 2--pyridine aldoxime methiodide; therapy evaluation

RH-00173 **GEISMAN, JEAN R.**, Col. Agr., Ohio State Univ. Res. Fdn., Columbus, Ohio
food contamination; food processing; monitoring; occupational hazards; radiation decontamination; radiation fallout; radioisotopes..cesium 137; radioisotopes..iodine 131; radioisotopes..strontium 90

RH-00215 **GOODNIGHT, CLARENCE J.**, Grad. Sch., Purdue Univ., Lafayette, Ind.
radiation hazards; inland fresh waters; ecology, animal; radioisotopes..phosphorus 32; radioisotopes..strontium 90; radioisotopes..cesium 137; water pollution

WP-00003 **GAUFIN, ARDEN R.**, Grad. Sch., Univ. Utah, Salt Lake City, Utah
aquatic insects; toxicology; insecticides; water flow; bioassay

(contd)

TOXICOLOGY (CONTD)

WP-00026 OSWALD, WILLIAM J., Col. Eng., Univ. California, Berkeley, Cal.
algae; microbial culture; sewage; cytolysis; cell components..cell wall; food; nutrition; microorganisms; sterilization; pesticides

WP-00035 BREHMER, MORRIS L., Virginia Inst. Marine Science, Gloucester Point, Va.
industrial wastes; coastal water; toxicology; radiolabeled; information exchange

WP-00223 SMITH, LLOYD L., Jr., Univ. Minnesota, St. Paul, Minn.
industrial wastes; inland fresh waters; toxicology; embryology; toxins

WP-00270 LARSON, T.E., Grad. Sch., Univ. Illinois, Urbana, Ill.
organic acids; water pollution; column chromatography; paper chromatography; gas chromatography

WP-00359 KOBAYASHI, JUN, Sch. Agr., Okayama Univ., Kurashiki City, Japan
geographical sites..Japan; osteomalacia; zinc; cadmium; poisoning; lead poisoning; water pollution; industrial wastes; epidemiology; chelating agents; vitamin D; chemotherapy; rice; insects diseases; sex difference

WP-00365 FAUST, SAMUEL D., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
4-amino antipyrine; phenols; water pollution

WP-00433 SKRINDE, ROLF T., Washington Univ., St. Louis, Mo.
water pollution; pesticides; water supply; water filters and filtration; ion exchange; oxidation; organic compounds; sanitary engineering

WP-00438 BROWN, C.J.D., Montana State Col., Bozeman, Mont.
water pollution; ecology, animal; inland fresh waters; blood proteins..serum proteins; stress

WP-00636 FUNDERBURK, H. HANLY, Jr., Sch. Agr., Auburn Univ., Auburn, Ala.
herbicides; toxicology; aquatic plants; diffusion; membrane permeability and transport; bioassay; chemical structure--biological activity; photosynthesis; water pollution; soil pollution

WP-00676 HINDIN, ERVIN, Washington State Univ., Pullman, Wash.
water pollution; DDT; insecticides residue; seasonal variation; inland fresh waters

WP-00715 McCARTY, PERRY L., Col. Eng., Stanford Univ., Stanford, Cal.
water pollution; pesticides; chlorinated hydrocarbons; organophosphorus compounds; inland fresh waters; diffusion; adsorption; aquatic animals; aquatic plants; soil

WP-00750 TORGESON, DEWAYNE C., Boyce Thompson Inst. Plant Res., Yonkers, N.Y.
soil pollution; herbicides; soilborne microbes; microbial culture; perfusion; detoxication

WP-00751 CHESTERS, GORDON, Col. Agr., Univ. Wisconsin, Madison, Wis.
pesticides; herbicides; adsorption; soil pollution; plants; radiolabeled carbon; soilborne microbes; microbial culture; water pollution; public health

WP-00768 NEUHOLD, JOHN M., Sch. Grad. Studies, Utah State Univ., Logan, Utah
toxicology; halides; fluorides; chlorides; bromides; iodides; water quality; water pollution; population dynamics. animal; inland fresh waters

WP-00793 DUGAN, PATRICK R., Col. Arts, Sci., Ohio State Univ., Columbus, Ohio
water pollution; detergents; pesticides; fish; DDT; dieldrin; toxicology

TROPICAL MEDICINE AND PARASITOLOGY

AI-00087 BALL, GORDON H., Univ. California, Los Angeles, Cal.
host-parasite; malaria..avian malaria; mosquitoes; protozoa..Plasmodium relictum; protozoan culture

AI-00092 STAUBER, LESLIE A., Grad. Sch., Rutgers, The State Univ., New Brunswick, N.J.
chemotherapy; hormones; immunology; leishmaniasis; nutrition; serology; species

AI-00351 ROSEBOOM, LLOYD E., Sch. Hygiene, Public Hlth., Johns Hopkins Univ., Baltimore, Md.
mosquitoes; genetic strains; insecticides resistance; species; genetics..chromosomes; ecology, animal; longevity; immunity; protozoa..Plasmodium

AI-00513 CHERNIN, ELI, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
trematodes..Schistisoma mansoni; mollusks; nematodes ..Daubaylia potomaca; life cycle; host-parasite; tissue culture; parasitic diseases; mollusks control

AI-00528 DeLONG, DWIGHT M., Ohio State Univ., Columbus, Ohio
mosquitoes; reproduction; behavior; esophagus; embryology; diapause

AI-00616 STANDTMANN, RUSSELL W., Grad. Sch., Texas Tech. Col., Lubbock, Tex.
mites; taxonomy; birds

AI-00742 HONIGBERG, BRONISLAW M., Col. Arts, Sci., Univ. Massachusetts, Amherst, Mass.
protozoa..Trichomonas vaginalis; protozoa..Trichomonas gallinae; cytotoxicity; drugs resistance; transformation; deoxyribonucleic acid; nitrogen; freezing

AI-00771 HANSON, ROBERT P., Univ. Wisconsin, Madison, Wis.
eastern encephalitis; western encephalitis; viruses.. vesicular stomatitis virus; epizootiology; disease transmission; geographical sites..Georgia; geographical sites.. Wisconsin; ticks

AI-00781 STAUBER, LESLIE A., Grad. Sch., Rutgers Univ., New Brunswick, N.J.
mollusks; immunity; host-parasite

AI-00800 FINLEY, HAROLD E., Grad. Sch., Howard Univ., Washington, D.C.
protozoa..Peritrichida; protozoan culture

AI-00850 McCASHLAND, BENJAMIN W., Grad. Sch., Univ. Nebraska, Lincoln, Nebr.
protozoa..Euglena; cell culture; growth inhibitors; antimetabolites; life cycle; cells; growth

AI-00867 PRATT, IVAN, Sch. Sci., Oregon State Univ., Corvallis, Ore.
Acanthocephala; cestodes; geographical sites.. United States, Pacific Northwest; host-parasite; life cycle; trematodes

AI-00884 LEWERT, ROBERT M., Univ. Chicago, Chicago, Ill.
nematodes..Trichinella spiralis; mast cells; metachromasia; immunology; granuloma; trematodes; hibernation

AI-00924 McGHEE, R. BARCLAY, Univ. Georgia, Athens, Ga.
blood cells..erythrocytes; cell; epizootiology; enzymes substrate complex; Hemiptera; immunity; immunology.. autoantibodies; mosquitoes; plants; protozoa.. Haemosporidiidea; protozoa..Trypanosomidae

AI-00926 HANSEN, EDER L., Kaiser Fdn. Res. Inst., Richmond, Cal.
helminth culture; axenic culture; liver; fungi..yeasts; bacteriolysis; anthelmintics; culture media

AI-00931 OWEN, WILLIAM B., Grad. Sch., Univ. Wyoming, Laramie, Wyo.
chemoreceptors

AI-00939 HSU, H.F., Sch. Med., State U. Iowa, Iowa City, Iowa
primates..Macaca mulatta; schistosomiasis; trematodes.. Schistosoma japonicum; vaccines

AI-00947 ROEDER, K.D., Tufts Univ., Medford, Mass.
nerve impulse transmission; ear..tympanum; sense organs; neurosecretion; nerve cells..neurons; chemoreceptors; hearing

AI-00961 BROOKS, MARION A., Grad. Sch., Univ. Minnesota, St. Paul, Minn.
bacteria..bacteroids; growth factors; symbiosis

AI-00977 MILLER, O. NEAL, Sch. Med., Tulane Univ., New Orleans, La.
protozoa..Trypanosoma cruzi; protozoa..Trypanosoma gambiense; protozoa..Leishmania donovani; host-parasite; nutrition; immunity

AI-01006 FELDMAN-MUHSAM, B., Sch. Med., Hebrew Univ., Jerusalem, Israel
ticks; microorganisms; symbiosis; life cycle; taxonomy; ecology, animal

AI-01037 PITTS, THOMAS D., Loyola Univ., Los Angeles, Cal.
nematodes..Ascaris suum; growth inhibitors; oxidation--reduction; potentials; uterus; ovum; oxygen tension; carbon dioxide tension; growth; culture media; molting

AI-01042 RITTERSON, ALBERT L., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
cell components..granules; immunity; immunology..antigens; mast cells; nematodes..Trichinella spiralis

AI-01098 NEWBURGH, R.W., Grad. Sch., Oregon State Univ., Corvallis, Ore.
phospholipids; life cycle; carnitine; lecithin; enzymes

AI-01155 WEST, ALLEN S., Queen's Univ., Kingston, Ontario, Canada
insects bites; hypersensitivity; mosquitoes; saliva; chemical structure--biological activity; salivary glands; histogenesis

AI-01237 HUTCHISON, WILLIAM F., Univ. Mississippi Med. Cr., Jackson, Miss.
cestodes..Echinococcus granulosus; immunology..antigens; diagnostic tests; helminth culture; echinococcosis; epidemiology; geographical sites..Mississippi; species

AI-01251 HERTIG, MARSHALL, Gorgas Mem. Inst., Balboa Heights, Canal Zone
protozoa..Leishmania; disease transmission; diagnostic tests; therapy evaluation; protozoa..Leptomonas; pyrimethamine; ecology, animal; genetic strains

AI-01266 HUNGATE, ROBERT E., Grad. Sch., Univ. California, Davis, Cal.
bacteria..rumen bacteria; stomach; protozoa; protozoan culture; growth, microorganisms

AI-01319 KRUIDENIER, FRANCIS J., Sch. Zoology, Univ. Illinois, Urbana, Ill.
helminths; host-parasite; life cycle

AI-01384 READ, CLARK P., Grad. Sch., Rice Univ., Houston, Tex.
host-parasite; organic compounds; growth factors; mammal; parasitic diseases; membrane permeability

AI-01389 FEINGOLD, BEN F., Kaiser Fdn. Hosps., San Francisco, Cal.
insects bites; immunology..hapten; fleas; chemical structure--biological activity; desensitization; allergens standardization

AI-01401 MOST, HARRY, New York Univ. Med. Cr., N.Y.C.
nematodes..Dirofilaria immitis; nematodes..Wuchereria malayi; organ culture; insects; host-parasite; filariasis

AI-01407 TRAGER, WILLIAM, Rockefeller Inst., N.Y.C.
malaria; host-parasite; electron microscopy; cell differentiation; protozoa..Plasmodium lophurae; protozoa.. Leishmania donovani; protozoa..Babesia rodhaini

AI-01508 SCHILLER, EVERETT L., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
cestodes..Hymenolepis diminuta; nematodes..Trichinella spiralis; host--parasite; age; nutrition; sex difference; genetics; radiation effects; helminth culture; trematodes.. Schistosoma mansoni; trematodes..Schistosoma haematobium; trematodes..Schistosoma japonicum

AI-01592 ELSDON-DEW, RONALD, Amoebiasis Research Unit, Durban, South Africa
amebiasis; epidemiology; ethnic groups Bantu; ethnic groups..whites; host-parasite; immunology; liver diseases; nutrition

AI-01611 HUFFAKER, CARL B., Univ. California, Albany, Cal.
population dynamics, animal; mites; moths; host-parasite

AI-01723 GRESSITT, J. LINSLEY, B.P. Bishop Museum, Honolulu, Hawaii
arthropods; disease transmission; ecology, animal; taxonomy; geographical sites..Pacific Islands; geographical sites..Asia; publications..monograph

AI-01741 SIIM, J. C. Sch. Med., State Serum Inst., Copenhagen, Denmark
toxoplasmosis; epidemiology; protozoa..Toxoplasma; immunology..antigens; immunological tests; plastics particles; chemical structure--biological activity; lymphatic tissue

AI-01782 ROHDE, CHARLES J., Jr., Northern Illinois Univ., DeKalb, Ill.
embryology; histogenesis

AI-01861 ENTNER, NATHAN, New York Univ. Med. Cr., N.Y.C.
cell components..microsomes; genetic strains; genetics; protozoa..Entamoeba histolytica

AI-01867 AGOSIN, MOISES, Sch. Med., Univ. Chile, Santiago, Chile, South America
Krebs cycle; cell-free systems; carbon dioxide; succinic acetates; pyruvate; radiolabeled carbon; amino acid; proteins

AI-01876 MUELLER, JUSTUS F., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
helminth culture; growth; genetics; cestodes..Sparganum mansonoides; cestodes..Spirometra; obesity; parasites; host--parasite; life cycle; immunity; immunology.. antigens

AI-01944 LEVI, HERBERT W., Museum Comp. Zoology, Harvard Univ., Cambridge, Mass.
behavior; spiders; taxonomy; venoms

AI-02067 COCHRAN, DONALD G., Virginia Polytechnic Inst., Blacksburg, Va.
oxidative phosphorylation; cell components.. mitochondria; muscle..sarcosomes; nucleotides; adenosine diphosphate; tissue respiration

AI-02205 SWEATMAN, GORDON K., Sch. Med., Pub. Hlth., American Univ., Beirut, Lebanon
cestodes..Echinococcus granulosus; immunology..antigens; anthelmintics; chemotherapy; epidemiology; diagnostic tests; skin tests; fractionation; helminth cysts; membrane permeability and transport; immunity

AI-02250 DIMOPOULLOS, GEORGE T., Louisiana State Univ., Baton Rouge, La.
anaplasmosis; rickettsia..anaplasma marginale; blood cells..erythrocytes; blood..plasma; surface properties; lipids; veterinary medicine; immunology..antigens; immunology..antibodies; radiolabeled phosphorus; fractionation

AI-02253 HARWOOD, ROBERT F., Grad. Sch., Washington State Univ., Pullman, Wash.
ecology (animal); flies; immunological tests; midges; mosquitoes; ticks; viruses..arthropod-borne viruses (unspecified)

AI-02271 HODGSON, EDWARD S., Grad. Sch., Columbia Univ., N.Y.C.
electrophysiology; hormones; neurohormones; potentials; sensory mechanisms

AI-02300 NEGHME, AMADOR R., Sch. Med., Univ. Chile, Santiago, Chile
DDT; Hemiptera; insecticides resistance; proteins; radiolabeled carbon

AI-02320 BROWN, ANTHONY W.A., Univ. W. Ontario, London, Ontario, Canada
mosquitoes; DDT; metabolites; insecticides resistance; genetics

AI-02347 MILLER, JOSEPH H., Sch. Med., Louisiana State Univ., New Orleans, La.
protozoa..Entamoeba histolytica; protozoa..Entamoeba coli; protozoa..Dientamoeba fragilis; electron microscopy; nematodes..Ancylostoma; nematodes..Strongyloides

AI-02373 WALLACE, FRANKLIN G., Grad. Sch., Univ. Minnesota, Minneapolis, Minn.
protozoa..Trypanosomidae; insects; host--parasite; protozoa..Blastocrithidia; protozoan culture; protozoa.. Trypanosoma; life cycle; taxonomy; protozoa..Leishmania

AI-02389 HARGIS, WILLIAM J., Jr., Virginia Inst. Marine Sci., Gloucester Point, Va.
epizootiology; host-parasite; publications..catalogs; publications..monograph; translations; trematodes.. Monogenea

AI-02390 BROOKES, VICTOR J., Sch. Sci., Oregon State Univ., Corvallis, Ore.
amino acid; carbon; lipids; glycogen; adipose tissue

AI-02401 VLOEDMAN, DERK A., Jr., Sch. Med., Univ. Miami, Coral Gables, Fla.
growth factors; protozoa..Balantidium caviae; protozoa.. Balantidium coli; protozoan culture

AI-02409 WALTER, HAROLD J., Am. Fdn. Trop. Med., New York, N.Y.
schistosomiasis; mollusks; genetics..hybrids; taxonomy; ecology, animal; geographical sites..Africa

AI-02423 YOELI, MEIR, New York Univ. Med. Cr., New York, N.Y.
protozoa..Plasmodium berghei; blood; immunity

AI-02462 DAY, MAXWELL F., Sci. Ind. Organ., Canberra, Australia
viruses..insects viruses; tissue culture; virus replication; cytopathogenic effect, viral; viruses..arthropod-borne viruses (unspecified); viruses, plant viruses

AI-02477 SWINGLE, H.S., Sch. Agr., Auburn Univ., Auburn, Ala.
aquatic plants; biological control; fish

AI-02487 CAMIN, JOSEPH H., Grad. Sch., Univ. Kansas, Lawrence, Kans.
mites; disease transmission; population dynamics, animal; cytology; protozoa..Hepatozoon; reptiles; behavior; sensory mechanisms; ticks; genetics..sex determination; water--electrolyte balance

AI-02631 VON LICHTENBERG, FRANZ, Peter Bent Brigham Hosp., Boston, Mass.
trematodes..Schistosoma mansoni; ovum; pulmonary granuloma; arteritis; lung; hypersensitivity; pulmonary artery hypertrophy; immunology; chitin; methyl cellulose

AI-02701 COSGROVE, WILLIAM B., Grad. Sch., Univ. Georgia, Athens, Ga.
tissue respiration; aerobiosis; host-parasite; protozoa..Leptomonas; protozoa..Crithidia; protozoa..Blastocrithidia

AI-02705 CHI, LOIS W., Immaculate Heart Col., Los Angeles, Cal.
copper sulfate; molluscacides; mollusks; ovum; pentachlorophenate; sodium pentachlorophenate

AI-02732 OLSON, LEROY J., Sch. Med., Univ. Texas, Galveston, Tex.
larva migrans; diagnostic tests; nematodes, Toxocara canis; hypersensitivity

AI-02759 MEYER, MARVIN C., Univ. Maine, Orono, Maine
birds; cestodes..Diphyllobothrium; crustaceans..copepods; epizootiology; fish; geographical sites..Maine; life cycle

AI-02770 RODRIGUEZ, J.G., Sch. Agr., Univ. Kentucky, Lexington, Ky.
flies; biological control; mites; radiolabeled; ecology, animal; ammonium; urea; nematodes

AI-02859 ZUCKERMAN, AVIVAH, Hebrew University-Hadassah Med. Sch., Jerusalem, Israel
anemia; blood; immunology..antigens; immunology..autoantibodies; malaria; primates..monkeys; protozoa.. plasmodium; reticulocytosis

AI-02886 WHEELER, CHARLES M., Dept. Hlth., Honolulu, Hawaii
bacteria..Pasteurella pestis; disease transmission; ecology (animal); epidemiology; fleas; geographical sites ..Hawaii; host-parasite; pasteurellosis; rodents

AI-02887 FOX, IRVING, Sch. Med., Univ. Puerto Rico, San Juan, Puerto Rico
typhus; insects control; ectozoic parasites; mites; fleas

AI-02898 MALEK, EMILE A., Sch. Med., Tulane Univ., New Orleans, La.
trematodes..Schistosoma mansoni; schistosomiasis; geographical sites..Louisiana; mollusks; dermatitis; trematodes..Heterobilharzia americana; ecology, animal; immunity

AI-02908 EISNER, THOMAS, Cornell Univ., Ithaca, N.Y.
antibiotics; chemical structure--biological activity; immunity; infectious diseases; insecticides; pheromones

AI-02951 REEVES, RICHARD E., Sch. Med., Louisiana State Univ., Baton Rouge, La.
genetic strains; protozoa..Entamoeba histolytica; protozoan cysts; species

AI-02984 GALINDO, PEDRO, Gorgas Mem. Lab., Balboa Heights, Canal Zone
viruses..arthropod--borne viruses (unspecified); ecology, microorganisms; geographical sites..Panama; viruses.. vesicular stomatitis virus; viruses..Ilheus encephalitis virus; disease transmission; immunological tests; viruses..Venezuelan equine encephalitis virus

AI-02984 GALINDO, PEDRO, P.O. Box 2016 Balboa Heights, Canal Zone, Republic Panama
disease transmission; ecology (microorganisms); geographical sites..Panama; immunological tests; viruses ..arthropod-borne viruses (unspecified); viruses..Ilheus encephalitis virus; viruses..vesicular stomatitis virus

AI-02992 FOSTER, WILLIAM B., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
beetles; diet; growth; host-parasite; proteins

AI-03049 THORSON, RALPH E., Sch. Biology, Univ. Notre Dame, Notre Dame, Ind.
blood..serum; chemical structure--biological activity; gastrointestinal system; immunity; lipases; proteases

AI-03067 GRAHAM, JAY E., Mosquito Abatement District, Midvale, Utah
insects control; mosquitoes; population dynamics, animal; geographical sites..Utah; ecology, animal

AI-03129 BIAGI, FRANCISCO, Sch. Med., Univ. Mexico, Mexico, D.F.
protozoa..Entamoeba histolytica; liver diseases; drugs; dietary deficiency; cholesterol; immunological tests; steroids

AI-03165 GRIFFITHS, HENRY J., Sch. Vet. Med., Univ. Minnesota, St. Paul, Minn.
disease transmission; epizootiology; geographical sites..Minnesota; immunology..antibodies; insecticides; mosquitoes; nematodes..Dipetalonema; nematodes.. Dirofilaria immitis

AI-03166 BULLOCK, WILBUR L., Grad. Sch., Univ. New Hampshire, Durham, N.H.
Acanthocephala; parasitic diseases; host-parasite; intestines

(contd)

TROPICAL MEDICINE AND PARASITOLOGY (CONTD)

AI-03212 **AREAN, VICTOR M., Col. Med., Univ. Florida, Gainesville, Fla.**
nematodes..Ascaris; immunity; immunology..antigen-antibody reactions; ferritin labeled antibody technique; reaction sites

AI-03304 **ZELEDON, RODRIGO A., Sch. Microbiology, Univ. Costa Rica, San Jose, Costa Rica, C.A.**
protozoa..Leishmania; zoonoses; leishmaniasis; genetic strains; transamination; enzymes; carbohydrates

AI-03315 **RISTIC, MIODRAG, Col. Vet. Med., Univ. Illinois, Urbana, Ill.**
anaplasmosis; rickettsiales..Anaplasma; rickettsiales.. Haemobartonella; rickettsiales..Eperythrozoon coccoides; ferritin labeled antibody technique; immunology..autoantibodies; blood cells..erythrocytes; mutagens

AI-03356 **HALL, JOHN E., West Virginia Univ. Med. Cr., Morgantown, W.Va.**
host-parasite; trematodes; insects; mollusks; epizootiology

AI-03366 **SOGANDARES-BERNAL, FRANKLIN, Grad. Sch., Tulane Univ., New Orleans, La.**
trematodes..Paragonimus; crustaceans; epizootiology; mollusks; life cycle

AI-03388 **HALEY, ALBERT J., Univ. Maryland, College Park, Md.**
nematodes..Nippostrongylus brasiliensis; immunity; sex difference; host-parasite; gonadectomy; testosterone; cortisone; age

AI-03407 **LOOMIS, RICHARD B., Long Beach State Col., Long Beach, Cal.**
mites; life cycle; ecology, animal; disease transmission; geographical sites..United States; geographical sites.. Latin America; geographical sites..North America

AI-03409 **LINCICOME, DAVID R., Howard Univ., Washington, D.C.**
cell components..protoplasmic membrane; growth factors; host-parasite; membrane permeability; oxygen consumption; population dynamics, microorganisms; protozoa.. Trypanosoma

AI-03424 **BRELAND, OSMOND P., Grad. Sch., Univ. Texas, Austin, Texas**
cell division..mitosis; cytology; genetics..chromosomes; insecticides resistance; oogenesis; salivary glands; spermatogenesis

AI-03461 **KRUPP, IRIS M., Sch. Med., Tulane Univ., New Orleans, La.**
protozoa..Entamoeba histolytica; immunology..antigens; genetic strains; immune sera

AI-03490 **JENSEN, DILWORTH D., Col. Agr., Univ. California, Berkeley, Cal.**
viruses..plant viruses; disease transmission; insects; virulence, microorganisms; reproduction; immunofluorescence; virus replication; serology; cytology

AI-03496 **KELLEN, WILLIAM R., Dept. Pub. Hlth., Fresno, Cal.**
disease transmission; ecology, animal; host-parasite; insects diseases; mosquitoes; ovary; protozoa.. Microsporidia; seasonal variation

AI-03497 **SYLVESTER, EDWARD S., Univ. California, Berkeley, Cal.**
viruses..plant viruses; insects; disease transmission; ecology, animal; aphids; nutrition

AI-03498 **GREENBERG, BERNARD, Col. Pharm., Univ. Illinois, Chicago, Ill.**
publications..monograph; publications..literature survey; flies; host--parasite; disease transmission; food contamination; meat; bacteria..Salmonella; bacteria..enterobacteria; mites; geographical sites..Mexico

AI-03499 **PIFFL, EDUARD, Univ. Vienna, Vienna, Austria**
documentation systems; mites; taxonomy

AI-03515 **BUEDING, ERNEST, Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.**
fatty acids; glucose; glycogen; glycolysis; muscle; muscle contraction; phosphorylases

AI-03550 **TRAGER, WILLIAM, Rockefeller Inst., New York, N.Y.**
protozoa..Plasmodium lophurae; oxidoreductases..glucose--6--phosphate dehydrogenase; host--parasite; blood cells..erythrocytes; immunity; oxidoreductases..lactate dehydrogenase; protozoa..Plasmodium coatneyi; growth, microorganisms

AI-03606 **OTT, RICHARD L., Col. Vet. Med., Washington State Univ., Pullman, Wash.**
disease transmission; fish; mollusks; rickettsia; trematodes

AI-03611 **TODD, A.C., Univ. Wisconsin, Madison, Wis.**
drugs resistance; genetic strains; nematodes..Haemonchus placei; nematodes, Haemonchus contortus; phenothiazine

AI-03650 **WRIGHT, CHRISTOPHER A., British Museum, London, England**
trematodes..Schistosoma; mollusks; host-parasite; mucus; genetics strains; chemical structure

AI-03653 **SMITH, RAY F., Univ. California, Berkeley, Cal.**
ectozoic parasites; population dynamics, animal; host--parasite; ecology, animal; age; sex difference; body weight; reptiles

AI-03655 **SHAFFER, JAMES G., Lutheran General Hosp., Park Ridge, Ill.**
amebiasis; blood cells..erythrocytes; diagnostic tests; growth factors; protozoa..Entamoeba histolytica; protozoan culture; species; toxicology

AI-03717 **CANDAU, MARCOLINO G., World Hlth. Orgn., Geneva, Switzerland**
schistosomiasis; cooperative study; World Health Organization; molluscacides; chemotherapy; diagnostic tests; immunological tests

AI-03743 **DAVIS, WILLIAM B., Texas A&M Col., College Station, Tex.**
bats; ecology, animal; ectozoic parasites; geographical sites..Guatemala; geographical sites..Latin America; geographical sites..Mexico; seasonal variation; taxonomy

AI-03744 **BECKMAN, HARRY, Sch. Med., Marquette Univ., Milwaukee, Wis.**
protozoa..Plasmodium gallinaceum; growth factors; blood; species; skin

AI-03746 **RASKI, DEWEY J., Univ. California, Davis, Cal.**
disease transmission; nematodes..plant nematodes; plants; virus replication

AI-03781 **BOX, EDITH D., Univ. Texas, Galveston, Texas**
protozoa..toxoplasma-like organisms; arthropods; life cycle; disease transmission

AI-03793 **AUDY, J. RALPH, Univ. California Med. Cr., San Francisco, Cal.**
mites; ticks; ecology, animal; life cycle; taxonomy; host--parasite; disease transmission; cooperative study; geographical sites..Asia; geographical sites..Pacific islands

AI-03795 **FRIZZI, GUIDO, Univ. Cagliari, Cagliari, Italy**
mosquitoes; malaria; disease transmission; genetics.. chromosomes; genetics..population genetics, animal; genetic mapping; fertilization..artificial fertilization; mutations; radiation effects

AI-03808 **KRUSBERG, LORIN R., Sch. Agr., Univ. Maryland, College Park, Md.**
nematodes..plant nematodes; nutrition; alfalfa; cytolysis; indoles; plants hormones; plants galls; tryptophan; plants..roots; neoplastic cells; lipids

AI-03821 **FOX, IRVING, Sch. Med., Univ. Puerto Rico, San Juan, P.R.**
acaricides; insecticides; mites; reproduction; species; toxicology

AI-03826 **NELSON, E. CLIFFORD, Med. Col. Virginia, Richmond, Va.**
protozoan culture; protozoa..Entamoeba histolytica; protozoa..Crithidia; carbon dioxide tension; axenic culture

AI-03930 **TANADA, YOCHINORI, Univ. California, Berkeley, Calif.**
butterflies; moths; viruses..insects viruses; immunity; age; heat; insects diseases

AI-03966 **BENJAMINI, ELIEZER, Kaiser Fdn., San Francisco, Cal.**
insects bites; immunology..hapten; conjugates; skin; chemical structure--biological activity

AI-03967 **ARUGA, HISAO, Univ. Tokyo, Tokyo, Japan**
virus diseases; insects; stress; moths; attentuation, microorganisms; immunity; genetics; viruses..polyhedral virus, insect

AI-04093 **ROGERS, WILLIAM P., Univ. Adelaide, Adelaide, South Australia**
gastrointestinal system; host-parasite; nematodes; parasitic diseases; skin

AI-04098 **BECK, ELISABETH C., Florida State Bd. Hlth., Jacksonville, Fla.**
midges; species; geographical sites..Florida; ecology, animal; sanitary engineering

AI-04101 **BURNS, WILLIAM C., Grad. Sch., Univ. Wisconsin, Madison, Wis.**
blood..serum; bursectomy; chickens; coccidiosis; genetics; immunity; intestines..cecum; splenectomy

AI-04107 **ANDERSON, LAUREN D., Col. Agr., Univ. California, Riverside, Cal.**
aquatic insects; midges; insects control; ecology, animal; life cycle

AI-04109 **TOWNES, HENRY, Sch. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.**
ichneumon flies; taxonomy; publications..monograph; parasites; insects; biological control

AI-04143 **GOODMAN, ROBERT N., Univ. Missouri, Columbia, Mo.**
antibiotics; aphids; bacteria..Erwinia amylovora; disease transmission; fruit; plants diseases

AI-04175 **VOGE, MARIETTA, Sch. Med., Univ. California, Los Angeles, Cal.**
helminth culture; cestodes..Hymenolepis diminuta; cestodes..Hymenolepis nana; nematodes..Trichinella spiralis; growth, microorganisms; metabolites; blood.. serum; fractionation

AI-04194 **HARWOOD, ROBERT F., Grad. Sch., Washington State Univ., Pullman, Wash.**
ecology, animal; mosquitoes; photoperiodism

AI-04205 **SUMMERS, WILLIAM A., Sch. Med., Indiana Univ., Indianapolis, Ind.**
immunology; reproduction, microorganisms; Rickettsia.. Anaplasma marginale; tissue culture

AI-04214 **MANSOUR, TAG E., Sch. Med., Stanford Univ., Palo Alto, Cal.**
serotonin; LSD; trematodes..Fasciola hepatica; glycolysis; host-parasite; phosphorylases; phosphotransferases..ATP : D-fructose-6-phosphate 1-phosphotransferase

AI-04242 **TRAUB, ROBERT, Sch. Med., Univ. Maryland, Baltimore, Md.**
fleas; ecology, animal; taxonomy; geographical sites..Asia; geographical sites; disease transmission; viruses; Rickettsia; host--parasite; geographical sites..Latin America

AI-04276 **TREJOS, ALFONSO, Sch. Med., Univ. El Salvador, San Salvador, El Salvador, C.A.**
complement-fixation tests; disease transmission; epidemiology; geographical sites..Central America; leishmaniasis

AI-04290 MARAMOROSCH, KARL, Boyce Thompson Inst., Yonkers, N.Y.
viruses..plant viruses; viruses..arthropod--borne viruses (unspecified); disease transmission; tissue culture; cytophathogenic effect, viral; virus replication; hemolymph; insects

AI-04291 HARVEY, WILLIAM R., Grad. Sch., Univ. Massachusetts, Amherst, Massachusetts
membrane permeability; ion..cation; skin; invertebrate hormones; phase microscopy; histogenesis; tissue respiration; gastrointestinal system; potassium

AI-04293 KEESHAN, CLARENCE P., Sister, Col. Saint Rose, Albany, N.Y.
axenic culture; nutrients; protozoa..Ciliata

AI-04334 ANASTOS, GEORGE, Grad. Sch., Univ. Maryland, College Park, Md.
publications..catalogs; trematodes; taxonomy; host--parasite; parasitic diseases; epizootiology

AI-04357 JONES, E. WYNN, Col. Vet. Med., Oklahoma State Univ., Stillwater, Okla.
anaplasmosis; anemia; splenectomy; reticuloendothelial system

AI-04379 BELKIN, JOHN N., Col. Agr., Univ. California, Los Angeles, Cal.
disease transmission; ecology, animal; geographical sites..Central America; geographical sites..Mexico; geographical sites..West Indies; mosquitoes; taxonomy

AI-04402 SONENSHINE, DANIEL E., Old Dominion College, Norfolk, Va.
ticks; taxonomy

AI-04404 MUELLING, RUDOLPH J., Jr., Sch. Med., Univ. Kentucky, Lexington, Ky.
trypanosomiasis; mucopolysaccharides; blood..serum; amyloidosis; densitometry; therapy evaluation; myocarditis; immunological tests; geographical sites.. Louisiana; geographical sites..Latin America; geographical sites..Philippines

AI-04411 BRAY, ROBERT S., London Sch. Hygiene, Tropical Med., London, England
protozoa..Leishmania; immunity..cross immunity; immunology..antigens; immunology..antigen-antibody reactions; diagnostic tests; growth, microorganisms; chemotherapy; vaccines; protozoa..Lankesterella; gametogenesis

AI-04438 MICHENER, CHARLES D., Grad. Sch., Univ. Kansas, Lawrence, Kans.
taxonomy; mathematical models; computer programming; ecology, animal

AI-04476 JAFFE, JULIAN J., Sch. Med., Univ. Vermont, Burlington, Vt.
trypanosomiasis; chemotherapy; antimetabolites; 6-azauricil; species; parasitic diseases

AI-04528 SHAFFER, JAMES G., Lutheran Gen. Hosp., Park Ridge, Ill.
protozoa..Entamoeba histolytica; genetics; protozoan culture; growth factors; growth inhibitors; genetic strains; immunology..antigens

AI-04540 ENTNER, NATHAN, Sch. Med., New York Univ., N.Y.C.
protozoa..Trypanosoma lewisi; host-parasite; immunology

AI-04607 BARBOSA, FREDERICO S., Univ. Recife, Recife, Brazil
schistosomiasis; disease transmission

AI-04643 HOPKINS, THEODORE L., Grad. Sch., Kansas State Univ., Manhattan, Kans.
gastrointestinal system; stress; insecticides; membrane permeability; purine

AI-04693 KRANTZ, GERALD W., Sch. Sci., Oregon State Univ., Corvallis, Ore.
mites; beetles; host-parasite; taxonomy; geographical sites..Africa; disease transmission

AI-04707 CLEGG, JOHN A., Australian Nat. Univ., Canberra, Australia
life cycle; egg shell; proteins; helminth culture

AI-04717 REMINGTON, JACK S., Palo Alto Med. Res. Fdn., Palo Alto, Cal.
toxoplasmosis; disease transmission; immunology..antigens; immunology..antigen-antibody reactions; protozoa.. Toxoplasma gondii; infectious diseases

AI-04722 JUNG, RODNEY C., Sch. Med., Tulane Univ., New Orleans, La.
immunology..antigens; immunology..antibodies; parasites; eosinophilia, blood; diagnostic tests; immune sera; epidemiology; public health

AI-04725 HANSON, ROBERT P., Univ. Wisconsin, Madison, Wis.
rabbits; disease transmission; parasitic diseases; infectious diseases; population dynamics, animal

AI-04749 SHORT, ROBERT B., Grad. Sch., Florida State Univ., Tallahassee, Fla.
Mesozoa; taxonomy; life cycle; host-parasite

AI-04752 MANDAHL-BARTH, GEORGE, Denmarks Akvarium, Charlottenlund, Denmark
schistosomiasis; mollusks; disease transmission; taxonomy; ecology, animal; mollusks control; World Health Organization; geographical sites..Africa; geographical sites..Middle East

AI-04790 FOOTE, BENJAMIN A., Kent State Univ., Kent, Ohio
flies; species; life cycle; taxonomy

AI-04836 BIAGI, FRANCISCO, Med. Sch., Univ. Mexico, Mexico, D.F.
cerebrospinal fluid; cestodes..Taenia; cysticercosis; diagnostic tests; fractionation; helminths; immunity..cross immunity; immunological tests; immunology..antigens; proteins

AI-04868 HOPKINS, THEODORE L., Grad. Sch., Kansas State Univ., Manhattan, Kans.
Diptera; feeding behavior; blood; host--parasite; blood proteins..serum proteins; fertility; precipitin technique; serology; disease transmission

AI-04870 FAIN, A.M.A.J., Inst. Tropical Med., Antwerp, Belgium
mange; mites; species

AI-04904 HAYS, KIRBY L., Sch. Agr., Auburn Univ., Auburn, Alabama
arthropods; taxonomy; species; disease transmission; epizootiology; population dynamics, animal; seasonal variation; ecology, animal; geographical sites..United States; publications..monograph

AI-04906 HUBENDICK, BENGT L., Naturhistoriska Museet, Goteborg, Sweden
mollusks control; snails; growth; population dynamics, animal; ecology, animal; schistosomiasis; reproduction; life cycle

AI-04908 VON ZELLEN, BRUCE W., Col. Liberal Arts, Sci., Northern Illinois Univ., DeKalb, Ill.
protozoa..Eimeria; protozoan culture; cell division.. schizogony; liver; cell culture

AI-04910 ECKERT, JOHN E., Col. Agr., Univ. California, Davis, Cal.
bees; insects diseases; life cycle; mites; parasitic diseases; protozoa..Nosema apis; publications..book; taxonomy

AI-04918 ANDERSON, JOHN R., Col. Agr., Univ. California, Berkeley, Cal.
flies; feeding behavior; host--parasite; diurnal variation; disease transmission; precipitin technique

AI-04919 BEAVER, PAUL C., Sch. Med., Tulane Univ., New Orleans, La.
research programs; cooperative study; parasitic diseases; epidemiology; zoonoses; amebiasis; larva migrans; filariasis; schistosomiasis; ascariasis; strongyloidiasis; sex behavior; diurnal variation; life cycle; soil; insects; travel;ancylostomiasis; sparganosis; echinococcosis

AI-04950 LANCASTER, J.L., Jr., Sch. Agr., Univ. Arkansas, Fayetteville, Ark.
ecology (animal); feeding; insecticides; insect bites; life cycle; reproduction; seasonal variation; spiders; toxins

AI-04953 FAIRBAIRN, DONALD, Univ. Massachusetts, Amherst, Mass.
nematodes..Ascaris lumbricoides; fats; carbohydrates; trehalose; skin; egg hatching

AI-05006 CAMPBELL, JAMES W., William Marsh Rice Univ., Houston, Tex.
nitrogen; urea; uric acid; carbamyl phosphate; amidohydrolases..asparaginase; transcarbamylases.. ornithine transcarbamylase; radiolabeled carbon; amino acid; carbon--nitrogen ligases..L--citrulline:L--aspartate ligase (AMP); glycosyltransferases..IMP:pyrophosphate phosphoribosyltransferase

AI-05008 FERNANDES, JOSE F., Faculty Med., Lab. de Fisiologia celular, Sao Paulo, Brasil
protozoa..Trypanosoma cruzi; trypanosomiasis; purine nucleotides; pyrimidine nucleotides; purine analogs; pyrimidine analogs; nucleic acids

AI-05053 McKITTRICK, FRANCES A., Col. Agr., Cornell Univ., Ithaca, N.Y.
phylogeny; reproduction; reproductive system; gastrointestinal system; publications..monograph

AI-05054 VAN HANDEL, EMIL, Florida State Bd. Hlth., Vero Beach, Fla.
sex difference; triglycerides; fatty acids; phospholipids; body weight; glucose; inositol; chemical structure; nutrition; aging

AI-05055 BROWN, C.J.D., Sch. Letters, Sci., Montana State Col., Bozeman, Mont.
parasitic diseases; fish; trematodes..Bolbophorus confusus; hematology; reproduction; temperature; life cycle

AI-05067 SIMS, ASA C., Jr., Southern Univ., Baton Rouge, La.
carbohydrases..cellulase; carbohydrases..pectic enzymes; fungi..Pellicularia filamentosa; metabolites; microbial culture; plants diseases; spores; toxins

AI-05068 KRAMER, JOHN P., Grad. Sch., Univ. Illinois, Urbana, Ill.
flies; host-parasite; insects control; life cycle; parasitic diseases; protozoa..Microsporidia; reproduction

AI-05074 LYCKE, ERIK N., Sch. Pub. Hlth., Virological Lab., Gothenburg, Sweden
antibiotics; antimetabolites; antiprotozoal agents; host-parasite; protozoa..Toxoplasma gondii; radioautography; reproduction (microorganisms)

AI-05075 STAY, BARBARA, Univ. Pennsylvania, Philadelphia, Pa.
electron microscopy; embryology; nutrition; phenol oxidases; proteins; radioautography; reproductive system; secretion

AI-05119 KNIGHT, KENNETH L., Sch. Agr., Home Ec., Iowa State Univ., Ames, Iowa
ecology, animal; life cycle; mosquitoes; ovum; soil

AI-05123 COIL, WILLIAM H., Univ. Kansas, Lawrence, Kansas
cestodes; geographical sites..Formosa; host-parasite; taxonomy; trematodes; vertebrates

AI-05124 LEHMANN, DONALD L., Whitman Col., Walla Walla, Wash.
protozoa..Trypanosoma; protozoan culture; culture media; temperature; reproduction; taxonomy

(contd)

TROPICAL MEDICINE AND PARASITOLOGY (CONTD)

AI-05145 COIL, WILLIAM H., Grad. Sch., Univ. Kansas, Lawrence, Kansas
cestodes; gametogenesis; genetics..sex determination; fertilization; life cycle; taxonomy

AI-05177 HOLLIMAN, RHODES B., Virginia Polytechnic Inst., Blacksburg, Va.
trematodes; mollusks; fish; birds; reptiles; amphibians; host-parasite; life cycle; taxonomy; geographical sites.. Virginia; inland fresh waters

AI-05182 MANWELL, REGINALD D., Col. Liberal Arts, Syracuse Univ., Syracuse, N.Y.
malaria..avian malaria; protozoa..Plasmodium; genetic strains; disease transmission; virulence, microorganisms; host-parasite; serology

AI-05188 RODRIGUES DA SILVA, JOSE, Sch. Med., Univ. Brazil, Rio de Janeiro, Brazil
malabsorption syndromes; strongyloidiasis; nematodes.. Strongyloides stercoralis; protozoa..Giardia lamblia; intestines..small intestine; diagnostic tests; nutrition; chemotherapy; malnutrition; giardiasis; trematodes.. Schistosoma mansoni; schistosomiasis; blood circulation dynamics; immunity..autoimmunity

AI-05195 SCHACHER, JOHN F., Sch. Pub. Hlth., Med., American Univ. Beirut, Beirut, Lebanon
nematodes..Brugia; nematodes..Wuchereria bancrofti; life cycle; histogenesis; taxonomy; hematology; serology; filariasis; zoonoses; geographical sites..Lebanon

AI-05226 SHERMAN, IRWIN W., Univ. California, Riverside, Cal.
malaria; protozoa..Plasmodium; blood cells..erythrocytes; duction, microorganisms

AI-05232 SELF, J. TEAGUE, Sch. Med., Univ. Oklahoma, Norman, Okla.
birds; viruses..arthropod-borne viruses (unspecified); parasites; host-parasite; ecology, animal

AI-05253 WEATHERSBY, A. BURNS, Col. Arts, Sci., Univ. Georgia, Athens, Ga.
mosquitoes; parabiosis; host-parasite; malaria..avian malaria; immunity

AI-05275 CLEVELAND, LEMUEL R., Grad. Sch., Univ. Georgia, Athens, Ga.
cinematography; parasites; reproduction; protozoa.. Mastigophora; genetics..chromosomes; cell components.. centrioles

AI-05276 CLEVELAND, LEMUEL R., Univ. Georgia, Athens, Ga.
termites; protozoa..mastigophora; juvenile hormone; ecdysone; invertebrate hormones; reproduction, micro-organisms; heterothallic reproduction; host--parasite

AI-05288 FULEIHAN, FARID J.D., Sch. Med., American Univ. Hosp., Beirut, Lebanon
schistosomiasis; pulmonary function; trematodes..schisto-somas; drugs, hypersensitivity; cell death

AI-05290 SAZ, HOWARD J., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.
nematodes..Ascaris lumbricoides; cestodes..Hymenolepis diminuta; radiolabeled carbon; carbohydrates; succinic acid; fatty acids; glycogen; oxidoreductases ..succinate dehydrogenase

AI-05329 SIMONS, JOHN N., Stanford Res. Inst., South Pasadena, Cal.
viruses..plant viruses; viruses..Arthropod-borne viruses, unspecified; plants; aphids; disease transmission; virus inhibitors; chemical structure--biological activity; genetic strains

AI-05345 CRANDALL, RICHARD B., Col. Med., Univ. Florida, Gainesville, Fla.
nematodes..Trichinella spiralis; molting; immunology.. antibodies; blood cells..leukocytes; nematodes.. Nippostrongylus brasiliensis

AI-05390 MAEGRAITH, B.G., Liverpool Sch. Tropical Med., Liverpool, England
malaria; host-parasite; blood cells, erythrocytes; cell components..mitochondria; immune sera; oxidative phosphorylation; membrane permeability and transport; blood flow; brain; primates..monkeys; therapy

AI-05436 KIM, KE CHUNG, Univ. Minnesota, St. Paul, Minn.
diptera; taxonomy; geographical sites

AI-05459 ROTHENBUHLER, WALTER C., Col. Agr., Ohio State Univ., Columbus, Ohio
foulbrood disease; immunity; ecology, animal; genetics; bees

AI-05500 SAXE, LEROY H., Jr., West Virginia Univ. Med. Cr., Morgantown, W.Va.
intestines..cecum; protozoa; bacteria; population dynamics, microorganisms; nutrition; chemotherapy; screening; stress

AI-05512 LEWIS, ROBERT E., Sch. Arts, Sci., American Univ. of Beirut, Beirut, Lebanon
fleas; life cycle; host--parasite; disease transmission; ecology, animal; geographical sites..Middle East sites..Mediterranean countries; geographical sites..Arab Near East; geographical sites..Asia; geographical sites.. Latin America; geographical sites..Central America

AI-05524 ADLER, SAUL, Hadassah Med. Sch., Hebrew Univ., Jerusalem, Israel
protozoa..Leishmania; genetic strains; immunity..cross immunity; epidemiology; virulence, microorganisms; geographical sites..India; geographical sites..Latin

AI-05554 HOEPPLI, REINHARD J.C., American Fdn. Tropical Med., Inc., N.Y.C.
parasitic diseases; publications..history of medicine; geographical sites..Africa; geographical sites.. United States; geographical sites..Latin America; travel; archeology

AI-05563 CHEATUM, E.L., New York State Conservation Dept., Albany, N.Y.
rabies; reproduction; antigonadotropic agents; disease transmission; population dynamics, animal; biological control

AI-05569 LEIGH, THOMAS F., U.S. Cotton Res. Station, Shafter, Cal.
mites; cotton; host-parasite; population dynamics, animal; genetic strains

AI-05595 MOORE, JOSEPH, Sch. Sci., San Fernando Valley State Col., Northridge, Cal.
axenic culture; protozoa..Gregarinida; host--parasite; bacteria

AI-05640 McCAULEY, JAMES E., Sch. Sci., Oregon State Univ., Corvallis, Ore.
marine biology; trematodes; life cycle; taxonomy; host--parasite; fish; ecology, animal

AI-05655 CAMPOS, LOURDES E., Sch. Virology, Univ. Philippines, Manila, Philippines
age; children; gastrointestinal system; geographical sites.. Philippines; seasonal variation; socioeconomics; viruses.. enteroviruses

AI-05657 CROSS, EARLE A., Jr., Grad. Sch., Northwestern State Col., Natchitoches, La.
bacteria; epizootiology; microbial culture; taxonomy; mites; bees; host--parasite; disease transmission; life cycle

AI-05658 SIMONS, JOHN N., Stanford Res. Inst., South Pasadena, Cal.
aphids; disease transmission; host-virus; plants diseases; viruses..arthropod borne viruses (unspecified)..viruses.. plants viruses

AI-05666 NOLF, LUTHER O., Grad. Col., State Univ. Iowa, Iowa City, Iowa
nematodes..Trichinella spiralis; host--parasite; cestodes.. Hymenolepis diminuta; carbon dioxide fixation; glucose

AI-05677 CHITANONDH, HATAI, 399 Linchee Street, Bangkok, Thailand
parasitic diseases; nervous system disorders; epidemiology; therapy; eosinophilic meningoencephalitis; nematodes..Gnathostoma spinigerum; cysticercosis; nematodes..Angiostrongylus contonensis; diagnostic tests; biopsy techniques; geographical sites..Thailand

AI-05680 WOLCOTT, GORDON B., Southwestern Univ., Georgetown, Tex.
protozoa..Trypanosoma cruzi; life cycle; host--parasite; gametogenesis; cell division..meiosis

AI-05690 HUNTLEY, CAROLYN C., Bowman Gray Sch. Med., Winston-Salem, N.C.
immunology..antibodies; larva migrans; children; diagnostic tests; hypersensitivity; parasitic diseases; gamma globulin; liver; geographical sites..Puerto Rico

AI-05717 DUNAGAN, TOMMY T., Grad. Sch., Southern Illinois Univ., Carbondale, Ill.
carbohydrates; amino acid; lipids; reaction sites; adsorption; membrane permeability and transport; growth factors; radiolabeled carbon

AI-05726 SUDDS, RICHARD H., State University Col., Plattsburgh, N.Y.
host-parasite; trematodes; larva, Helminths

AI-05745 STROUT, R.G., Col. Agr., Univ. New Hampshire, Durham, N.H.
amino acid; carbohydrates; cell division..schizogony; chemical structure--biological activity; host-parasite; lipids; protozoa..Eimeria; toxins

AI-05748 SIMMONS, JOHN E., Jr., Rice Univ., Houston, Tex.
urea; amidohydrolases..urease; carbon dioxide fixation; transcarbamylases; host--parasite; cestodes

AI-05775 HSIEH, HSIEN-CHEN, Kaohsiung Med. Col., Kaohsiung, Taiwan, Formosa
nematodes..Strongylata; epidemiology; host-parasite; seasonal variation; axenic culture; ethnic groups.. Africans; diagnostic tests; geographical sites..Africa; immunity

AI-05799 GOMEZ N., JUAN C., Instituto Venezolano de Investigaciones Cientificas, Caracas, Venezuela
insects; disease transmission; trypanosomiasis; population dynamics, animal; sex behavior; life cycle; radiation effects; genetics; feeding behavior; reproduction; insects control; geographical sites.. Venezuela; ecology, animal

AI-05802 HOLZ, GEORGE G., Jr., Upstate Med. Cr., State Univ. New York, Syracuse, N.Y.
cell components; drugs; fatty acids; lipids; phospholipids; phylogeny; protozoa..ciliata; radiolabeled carbon; sterols; synchronous cell division; temperature; tritium

AI-05832 JAMES, DOUGLAS, Col. Arts, Sci., Univ. Arkansas, Fayetteville, Ark.
birds; population dynamics, animal; disease transmission; survey; publication..book; geographical sites.. Arkansas

AI-05835 VOGE, MARIETTA, Sch. Med., Univ. California, Los Angeles, Cal.
cestodes; Hymenolepis; cell differentiation; enzymes; histogenesis; growth, microorganisms

AI-05872 ROBERTS, JOHN F., New Mexico Highlands Univ., Las Vegas, N. Mex.
protozoa..Trypanosoma; microbial culture; dimorphism (biology); temperature; enzymes; respiration; cell com-

AI-05881 NEWSOM, LEO D., Grad. Sch., Louisiana State Univ., Baton Rouge, La.
insects; fatty acids; triglycerides; gonadotropins; diapause

AI-05882 WHISLER, HOWARD C., Sch. Arts, Sci., Univ. Washington, Seattle, Wash.
fungi..Trichomycetes; growth, microorganisms; host-parasite; axenic culture; ecology, microorganisms; arthropods; nutrition; growth factors; histogenesis

AI-05888 SCHMIDT, L. H., U. California, Davis, Cal.
chemotherapy; cooperative study; life cycle; primates.. Macaca mulatta; Protozoa..Plasmodium; tissue culture

AI-05910 SILVERMAN, PAUL H., Univ. Illinois, Urbana, Ill.
parasitic diseases; immunology..antigens; immunology.. antigen-antibody reactions; host-parasite; reaction sites; immunity; serology; genetics sex difference; age; stress; life cycle; feeding behavior; vaccines

AI-05917 PELLEGRINO, JOSE, Instituto de Biologia, Faculdade de Filosofia, Belo Horizonte, Brasil
trematodes..Schistosoma mansoni; chemotherapy; drugs; primates..monkeys; serology; reproduction, microorganisms

AI-05923 BERG, CLIFFORD O., Col. Agr., Cornell Univ., Ithaca, N.Y.
mollusks; flies; biological control; mollusks control

AI-05927 HARKEMA, REINARD, Sch. Agr., North Carolina State Univ., Raleigh, N.C.
helminths; trematodes..Heterobilharzia americana; host--parasite; life cycle; epizootiology; geographical sites..United States, Southeastern

AI-05931 ROBINSON, EDWIN J., Jr., Macalester Col., St. Paul, Minn.
nematodes..Filaria; host--parasite; taxonomy; disease transmission; life cycle; ecology, animal

AI-05932 SAMUELS, ROBERT, Meharry Med. Col., Nashville, Tenn.
protozoa..Trichomonas vaginalis; drugs resistance; therapy evaluation; mutations; genetics..recombination

AI-05938 SWARTZWELDER, J. CLYDE, Sch. Med., Louisiana State Univ., New Orleans, La.
diagnostic tests; disease transmission; epidemiology; geographical sites..Costa Rica; population dynamics, animal; public health; trypanosomiasis

AI-05944 KAJIHIRO, EDWIN S., Col. Arts, Sci., Wayland Col., Plainview, Tex.
fungi..dermatophytes; microbial culture; geographical sites..United States

AI-05947 TURNER, E.C., Jr., Virginia Polytechnic Inst., Blacksburg, Va.
synovitis; infectious diseases; poultry; disease transmission; insects; bacteria..Mycoplasma

AI-05966 WEINMANN, CLARENCE J., Col. Agr., Univ. California, Berkeley, Cal.
nematodes..Thelazia californiensis; disease transmission; life cycle; conjunctivitis; keratitis; epizootiology; host--parasite; cooperative study; ecology, animal; seasonal variation; survey; flies

AI-06034 THOMPSON, WAYNE H., State Lab. of Hygiene, Madison, Wis.
viruses..California encephalitis virus; epidemiology; immunology; seasonal variation; age; disease transmission; zoonoses; geographical sites..United States

AI-06047 BEAMES, CALVIN G., Jr., Col. Vet. Med., Oklahoma State Univ., Stillwater, Okla.
nematodes..Ascaris lumbricoides; lipids; reproductive system; antimetabolites; life cycle

AI-06083 FOX, IRVING, Sch. Med., Univ. Puerto Rico, San Juan, P.R.
molluscacides; detoxication; snails; chlorination; genetics

AI-06092 SEAMAN, GERALD R., Hunter Col., City Univ. N.Y., New York, N.Y.
protozoa..Tetrahymena pyriformis; host--parasite; chemical structure--biological activity; peptides; phagocytosis; cell components..cell membrane

AI-06103 LEE, HO W., Col. Med., Seoul Natl. Univ., Chongno-Ku, Seoul, Korea
viruses..Japanese B encephalitis virus; mosquitoes; disease transmission; seasonal variation; epizootiology; migratory animals; hibernation; taxonomy; geographical sites..Korea

AI-06104 WEINMANN, CLARENCE J., Col. Agr., Univ. California, Berkeley, Cal.
cestodes; immunity..cross immunity; host-parasite; genetic strains; preventive medicine; parasitic diseases

AI-06107 GRESSITT, J. LINSLEY, Bernice P. Bishop Museum, Honolulu, Hawaii
atmosphere; air sampling; instrumentation--methodology; allergens..airborne allergens; bacteria..airborne bacteria; spores; wind tunnels; dust; insects

AI-06108 KREIER, JULIUS P., Col. Vet. Med., Ohio State Univ., Columbus, Ohio
blood cells..erythrocytes; hemolysis; host--parasite; immunology..autoantibodies; immunology..antibodies; protozoa..Plasmodium berghei; reaction sites; parasitic diseases

AI-06117 BAND, RUDOLPH N., Michigan State Univ., East Lansing, Mich.
protozoa..Hartmannella; aerobiosis; anaerobiosis; protozoan culture; protozoan cysts; surface properties; cell aggregation

AI-06153 ROBERTS, LARRY S., Col. Arts, Sci., Univ. Masschusetts, Amherst, Mass.
carbohydrates; cestodes; diet; gastrointestinal system; growth; helminth culture; host-parasite; oxygen tension; population dynamics, animal; thiamine; vitamin B12

AI-06195 NORRIS, DALE M., Sch. Agr., Univ. Wisconsin, Madison, Wis.
beetles; fungi; plants diseases; host-parasite; life cycle; microbial culture; environment

AI-06196 LECHLEITNER, R.R., Col. Arts, Sci., Colorado State Univ., Fort Collins, Colo.
ecology, animal; prairie dogs; ecology, microorganisms; disease transmission; epizootiology; population dynamics, animal; feeding behavior; seasonal variation; bacteria..Pasteurella

AI-06197 LEVINE, NORMAN D., Col. Vet. Med., Univ. Illinois, Urbana, Ill.
nematodes; life cycle; climate; ecology, animal; population dynamics, animal; instrumentation--methodology; disease transmission; criteria

AI-06209 ANDRADE, ZILTON A., Hosp. das Clinicas, Salvador, Brazil
schistosomiasis; splenomegaly; hepatitis; intestines; granuloma; hypersensitivity; immunity; nutrition; adrenal cortex hormones

AI-06238 DE PAOLA, DOMINGOS, Catholic Univ. Brazil, Guamabara, Brazil
viruses..arthropod--borne group C viruses; genetic strains; virus diseases; cytopathogenic effect, viral; geographical sites..Brazil

AI-06249 DICKERMAN, ROBERT W., Oficina Sanitaria Panamericana, Colonia Juarez, Mexico, D.F., Mexico
viruses..arthropod-borne viruses (unspecified); epizootiology; disease transmission; population dynamics, animal; life cycle; host-virus; seasonal variation; migratory animals; birds; geographical sites.. Mexico; taxonomy; serology

AI-06262 SOULSBY, ERNEST J.L., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
nematodes..Ascaris suum; immunology, antigens; immune sera; helminths control

AI-06271 BARBOSA, F.S., Univ. Recife, Recife, Brazil
snails; host--parasite; life cycle; population dynamics, animal; trematodes..Schistosoma mansoni; disease transmission; taxonomy; geographical sites..Brazil

AI-06295 JENNINGS, JOSEPH B., Univ. Leeds, Leeds, England
helminths; feeding behavior; nutrients; enzymes; gastrointestinal system; parasites

AI-06298 DAMIAN, RAYMOND T., Col. Arts, Sci., Emory Univ., Atlanta, Ga.
immunology..antigens; host--parasite; trematodes.. Schistosoma mansoni; blood groups; reaction sites

AI-06345 FRIEDMAN, STANLEY, Grad. Sch., Univ. Illinois, Urbana, Ill.
trehalose; blood

AI-06406 SMITH, R. JAY, Col. Arts, Sci., Univ. Detroit, Detroit, Mich.
trematodes; snails; host--parasite; life cycle; taxonomy; genetic strains; epizootiology; geographical sites.. United States

AI-06413 BOGITSH, BURTON J., Col. Arts, Sci., Vanderbilt Univ., Nashville, Tenn.
trematodes..Posthodiplostomum minimum; host--parasite; life cycle

AI-06414 VILCHES, ANTONIO M., Hospital Rivadavia, Buenos Aires, Argentina
Argentine hemorrhagic fever; epidemiology; diagnostic tests; therapy evaluation; geographical sites.. Latin America

AI-06442 ROTHMAN, ALVIN H., California State Col., Fullerton, Cal.
cestodes..Hymenolepis diminuta; tissue; oxido-reductases..dehydrogenases; phosphatases..adenosine triphosphatase; pinocytosis; electron microscopy; histogenesis

AI-06452 TODD, A.C., Col. Agr., Univ. Wisconsin, Madison, Wis.
germ--free; axenic culture; nematodes..Nippostrongylus brasiliensis; nematodes..Nematospiroides dubius; viruses.. swine influenza virus; viruses..influenza viruses; disease transmission; epizootiology; host--virus

AI-06498 KOBERLE, FRITZ, Fac. Med., Univ. Sao Paulo, Sao Paulo, Brazil
trypanosomiasis; ganglion..nervous system; nervous system..central nervous system; nervous system.. peripheral nerves; nerves degeneration

AI-06530 GUTTMAN, HELENE N., Univ. Col., New York Univ., Bronx, N.Y.
protozoa..Crithidia; protozoa..Herpetomonas; protozoa.. Strigomonas; protozoan culture; host--parasite; insects; nutrition; stress; heat; methionine; protozoa.. Trypanosomatidae; catalase

AI-06564 BERGOLD, GERNOT H., Inst. Venezolano de Investigaciones Cientificas, Caracas, Venezuela
viruses..yellow fever virus; genetic strains; virus inhibitors; attenuation, microorganisms; disease transmission; mosquitoes

AI-06567 DUWE, ARTHUR E., Waynesburg Col., Waynesburg, Pa.
platyhelminths; nematodes; immune sera; immunological sera; immunological tests; gel diffusion technique; immunology; proteins; electrophoresis

AI-06599 MILLEMANN, RAYMOND E., Oregon State Univ., Corvallis, Ore.
rickettsiales..Neorickettsia helminthoeca; trematodes..Nanophyetus salmincola; snails; disease transmission; fish; host--parasite; life cycle; epizootiology; food poisoning

(contd)

LISTING OF GENERAL RESEARCH AREAS

TROPICAL MEDICINE AND PARASITOLOGY (CONTD)

AI-06603 **VELASQUEZ, CARMEN C., Museum Natural History, Smithsonian Inst., Washington, D.C.**
fish; helminths; host--parasite; information exchange; seafood; geographical sites..Asia; life cycle; epizootiology

AI-06605 **CALENTINE, ROBERT L., Wisconsin State Univ. River Falls, Wis.**
life cycle; cestodes; host--parasite; taxonomy; phylogeny

AI-06633 **LEIBY, PAUL D., Minot State Col., Minot, N.D.**
echinococcosis; cestodes..Echinococcus multilocularis; geographical sites..United States; life cycle; host--parasite; zoonoses; disease transmission

AI-06679 **HARMS, CLARENCE E., Tabor Col., Hillsboro, Kans.**
Acanthocephala; axenic culture; culture media

AI-06783 **IVEY, MICHAEL H., Univ. Oklahoma, Oklahoma City, Okla.**
protozoa..Trichomonas vaginalis; culture media; age; growth, microorganisms; virulence, microorganisms; immunology; physiology

AM-04635 **GRAHAM, GEORGE G., British American Hosp., Lima, Peru, South America**
dehydration; diarrhea; diet; geographical sites..Peru; infants (human); malnutrition; potassium; proteins

AM-04827 **VITERI, FERNANDO, Inst. Nutr. Central America and Panama, Guatemala City, Guatemala**
infectious diseases; nutrition; geographical sites.. Central America; children; nitrogen balance; vitamins; proteins; malnutrition; virus diseases; parasitic diseases; bacterial diseases; blood..plasma; blood cells..eosinophil leukocytes; amino acid; adrenal glands

AM-05691 **OLIVER-GONZALEZ, JOSE, Sch. Trop. Med., Univ. Puerto Rico, San Juan, P.R.**
hematopoiesis; polysaccharides; nematodes..Ascaris lumbricoides; antineoplastic agents; blood cells.. erythrocytes; immunology..antigens; cancer; diagnostic tests

AM-06004 **SAYRE, FRANCIS W., Kaiser Inst., Richmond, Cal.**
helminth culture; growth factors; liver; chemical structure--biological activity

AM-07531 **SHORB, MARY S., Sch. Agr., Univ. Maryland, College Park, Md.**
protozoa..Tetrahymena pyriformis; culture media; fatty acids; steroids; glycerides; phospholipids; carboxylic acids; hypocholesteremia; triparanol; benzmalecene; oleic acid; sterol esters; radiolabeled; pentacyclic triterpenes; enzyme inhibitors

AM-08632 **STOKSTAD, E.L., ROBERT, Col. Agr., Univ. California, Berkeley, Cal.**
annelids; axenic culture; cytolysis; growth factors; neoplastic growth; nutrients; reproduction; viruses

AM-08683 **KOTCHER, EMIL, Louisiana State Univ., ICMRT, San Jose, Costa Rica**
gastrointestinal disorders; protozoa..Giardia lamblia; nematodes..Strongyloides stercoralis; chemotherapy; diagnostic tests; children

AM-08799 **WARREN, LIONEL G., Sch. Med., Louisiana State Univ., New Orleans, La.**
parasites; adenosine triphosphate; electron transport; oxidative phosphorylation; Embden--Meyerhof pathway; enzymes; carbohydrates; fatty acids; nematodes.. Strongylata; radiolabeled carbon

CA-04160 **BURDETTE, WALTER J., Col. Med., Univ. Utah, Salt Lake City, Utah**
brain hormones (invertebrate); cell culture; chemical structure--biological activity; ecdysone; invertebrate hormones; juvenile hormones

CA-05783 **LICHTWARDT, ROBERT W., Grad. Sch., Univ. Kansas, Lawrence, Kans.**
plants galls; fungi; insects; tissue culture

CA-06164 **GROTH, AARON H., Jr., Sch. Vet. Med., Auburn Univ., Auburn, Ala.**
sarcoma; granuloma; nematodes..Spirocerca lupi; neoplasms transplantation; life cycle; beetles; axenic culture; esophagus neoplasms; carcinogenesis; cytology

CA-07061 **CHAPMAN, WARREN H., Western Washington State Col., Bellingham, Wash.**
AAF; carcinogenesis; carcinogens; helminth culture; hydrogen-ion concentration; life cycle; nematodes.. Trichosomoides crassicauda; ovum; salts; temperature urinary bladder neoplasms

CA-07299 **SUTHERLAND, DONALD J., Col. Agr., Rutgers State Univ., New Brunswick, N.J.**
carcinogenesis; carcinogens; diet; implants; salivary gland neoplasms

CA-07839 **CONNER, GABEL H., Col. Vet. Med., Michigan State Univ., East Lansing, Mich.**
leukemia; lymphosarcoma; epizootiology; cattle; diagnostic tests; hematology; geographical sites.. Michigan; disease transmission; ecology, animal

CC-00004 **IRONS, JESSE V., Texas State Dept. Hlth., Austin, Tex.**
viruses..arthropod--borne viruses; disease transmission; epidemiology; host--parasite; mosquitoes; birds; mammals

CC-00006 **ROTH, EARL E., Agr. Mechanical Col., Louisiana State Univ., Baton Rouge, La.**
spirochetes..Leptospira; epizootiology; immunology.. antigens; leptospirosis

CC-00017 **SASA, MANABU, Univ. Tokyo, Tokyo, Japan**
filariasis; geographical sites..Japan; chemotherapy; insecticides; disease transmission; diagnostic tests; diethylcarbamazine

CC-00034 **UECKERT, VERDES H., Maricopa Co. Hlth. Dept., Phoenix, Arizona**
viruses..St. Louis encephalitis; western encephalitis; geographical sites..Arizona; disease transmission; mosquitoes; epidemiology

CC-00047 **SANDERSON, GLEN C., Univ. Illinois, Urbana, Ill.**
viruses..rabies virus; epizootiology; population dynamics, animal; immunity

CC-00052 **SANDERSON, GLEN C., Illinois Natural History Survey, Urbana, Ill.**
disease transmission; zoonoses; epizootiology; population dynamics, animal; ecology, animal; deer

CC-00073 **DEWHIRST, LEONARD W., Col. Agr., Univ. Arizona, Tucson, Ariz.**
cysticercosis; diagnostic tests; cestodes..Taenia saginata; immunology..antigens; chemical structure-biological activity; helminth culture; embryo; cattle

CC-00079 **STEVENSON, HENRY M., Fla. State Univ., Tallahassee, Florida**
migratory animals; geographical sites..Florida; population dynamics, animal; seasonal variation

CC-00080 **MOYA, VICTOR, Pan American Sanitary Bureau, Washington, D.C.**
anthelmintics; echinococcosis; therapy evaluation; zoonoses

CC-00082 **OLIVER-GONZALEZ, JOSE, Sch. Med., Univ. Puerto Rico, San Juan, P.R.**
trematodes..Schistosoma; mollusks control; biological control; disease transmission

CC-00100 **RATHBURN, CARLISLE B., Jr., Florida State Bd. Health, Vero Beach, Fla.**
insecticides; aerosols; insects control; climate humidity; temperature; environment; mortality; public health

CC-00101 **HARRINGTON, ROBERT W., Jr., Florida State Bd. Hlth., Vero Beach, Fla.**
coastal waters; fish; seasonal variation; insecticides; diet; mosquitoes; ecology (animal); breeding cycles

CC-00103 **CHEW, ROBERT M., Sch. Liberal Arts, Sci., Univ. Southern California, Los Angeles, Cal.**
mosquitoes; ecology, animal; breeding cycles; insects control; irrigation (agriculture)

CC-00126 **HARRY, HAROLD W., A and M Marine Lab., Galveston, Tex**
mollusks; water quality; growth; reproduction; population dynamics, animal; trace elements; hydrogen-ion concentration; fatty acids; heavy metals; chelating agents; toxicology

EF-00114 **WILBUR, DONALD A., Sch. Agr., Kansas State Univ., Manhattan, Kans.**
food contamination; grain; insects; ecology, microorganisms; radiography

EF-00185 **LA PIDUS, JULES B., Col. Pharm., Ohio State Univ., Columbus, Ohio**
plants; beetles; host-parasite; chemical structure; insects control

EF-00203 **VAN MIDDELEM, C.H., Univ. Florida, Gainesville, Fla.**
food contamination; pesticides; crops; chlorides; bromides; sulfur; gas chromatography; coulometry; column chromatography; phosphates; chlorinated hydrocarbons; organophosphorus compounds; carbamates; bioassay

EF-00209 **SMISSMAN, EDWARD E., Sch. Pharm., Univ. Kansas, Lawrence, Kans.**
plants; immunity; bacteria; fungi; insects; antibiotics; chemical structure--biological activity; plants diseases; crops; synthesis

EF-00331 **PEPPER, J.H., Sch. Letters, Sci., Montana State Col., Bozeman, Mont.**
embryology; neuroendocrine systems; population dynamics (animal); reproduction; stress; teratoma

EF-00338 **RAY, SAMMY M., Texas A&M Marine Lab., Galveston, Tex.**
antibiotics; bactericides; fungi..Dermocystidium marinum; fungicides; mollusks; mycoses; seafood

EF-00346 **SPARKS, ALBERT K., Col. Fisheries, Univ. Washington, Seattle, Wash.**
crustaceans; epizootiology; food poisoning; mollusks; parasitic diseases; public health; seasonal variation

EF-00515 **ANDERSON, JOHN R., Col. Agr., Univ. California, Berkeley, Cal.**
diptera; life cycle; population dynamics, animal; environment; feces; nutrients; reproduction; geographical sites..California

EF-00593 **ALLISON, RAY, Sch. Agr., Auburn Univ., Auburn, Ala.**
protozoa..Myxosporidia; organophosphates; antiprotozoal agents; toxicology; microbial culture; host-parasite; anthelmintics

EF-00621 **MACKIN, JOHN G., Col. Arts, Sci., Texas AM Univ., College Station, Tex.**
fungi..Dermocystidium marinum; host--parasite; life cycle; microbial culture; taxonomy; mollusks

ES-00022 **CLOUTIER, ELMER J., Sch. Natural Sci., Elmira Col., Elmira, N.Y.**
diapause; histogenesis; hormones; photoperiodism

ES-00023 **WINGO, CURTIS W., Col. Agr., Univ. Missouri, Columbia, Mo.**
flies; population dynamics, animal; life cycle; host-parasite; reproduction; insects control; geographical sites..Missouri; disease transmission

ES-00039 TUCKER, JOHN S., Raymond Col., Univ. Pacific, Stockton, Calif.
marine biology; invertebrates; reproduction; ecology, animal; gametogenesis; cyclic functions; nutrients; geographical sites..California

GM-05093 BECK, STANLEY D., Grad. Sch., Univ. Wisconsin, Madison, Wis.
parasites; nutrition; growth; feeding behavior; plants; insects control

GM-06021 JONES, JACK C., Univ. Maryland, College Park, Md.
reproduction; fertilization..artificial fertilization; spermatozoa; ovum; ovary

GM-06101 SHAPPIRIO, DAVID G., Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
metamorphosis; growth; diapause; oxidoreductases; respiratory enzymes; endocrine glands; salivary glands; saliva; brain; choline esterase; neurosecretion

GM-07194 DUNDEE, DOLORES S., Louisiana State Univ., New Orleans, La.
mollusks; geographical sites..Gulf Coast; ecology, animal

GM-07349 SMITH, THOMAS L., Col. Ozarks, Clarksville, Ark.
radiation effects; radioisotopes; mutation; body fluids

GM-07557 BECK, STANLEY D., Grad. Sch., Univ. Wisconsin, Madison, Wis.
photoperiodism; invertebrate hormones; tissue respiration; neurohormones; cytology; gametogenesis

GM-07686 ARNOLD, JOHN G., Jr., Grad. Sch., Loyola Univ., New Orleans, La.
epizootiology; fish; geographical sites..Louisiana; parasites

GM-07758 HANSEN, EDWARD L., Oregon State Univ., Corvallis, Ore.
population dynamics (animal); voles

GM-09103 HUTNER, SEYMOUR H., Haskins Lab., New York, N.Y.
protozoa; nutrients; stress; vitamin B12; sterols; amino acids; folic acid; carcinogens

GM-09953 TOMLINSON, JACK T., San Francisco State Col., San Francisco, Cal.
hermaphroditism; phylogeny; reproductive system; sex behavior; sex difference

GM-10155 BICK, GEORGE H., Saint Mary's Col., Notre Dame, Ind.
damselflies; ecology (animal); phylogeny; reproduction; seasonal variation

GM-10207 SALMON, JOHN T., Victoria Univ. Wellington, Wellington, New Zealand
Collembola; taxonomy; publications..monograph

GM-10208 DUCOFF, HOWARD S., Grad. Sch. Life Sci., Univ. Illinois, Urbana, Ill.
aging; antimetabolites; dietary deficiency; metamorphosis; mortality; radiation effects; temperature

GM-10817 BANSE, KARL, Grad. Sch., Univ. Wash., Seattle, Wash.
marine biology; aquatic animals; seasonal variation; geographical sites..Washington; ecology, animal

GM-11149 DAVIS, WAYNE H., Col. Arts, Sci., Univ. Kentucky, Lexington, Ky.
bats; population dynamics, animal; seasonal variation; feeding behavior; infants, animals; disease transmission; rabies; geographical sites..Kentucky

GM-11394 PROCTOR, VERNON W., Sch. Arts, Sci., Texas Technological Col., Lubbock, Texas
crustaceans; inland fresh waters; population dynamics, animal; birds

GM-11524 SHOREY, HARRY H., Col. Agr., Univ. California, Riverside, Cal.
chemoreceptors; insects; organic compounds; pheromones; secretory mechanisms; sex behavior; synthesis

GM-11744 MINTON, SHERMAN A., Jr., Indiana Univ. Med. Cr., Indianapolis, Ind.
antivenins; geographical sites..Asia; immunological tests; immunology; phylogeny; toxicology; venoms

GM-11945 SILVERSTEIN, ROBERT M., Stanford Res. Inst., Menlo Park, Cal.
chemical structure--biological activity; insects control; molecular structure; pheromones; sex behavior

GM-11950 FORSTER, RAYMOND R., Bernice P. Bishop Museum, Honolulu, Hawaii
geographical sites..New Zealand; spiders; taxonomy; toxicology

GM-11993 AUDY, J. RALPH, Univ. California Med. Cr., San Francisco, Cal.
ACTH; adrenal cortex hormones; adrenal glands; secretory mechanisms; population dynamics, animal; sex difference; age; seasonal variation; stress

GM-12020 DUELLMAN, WILLIAM E., Univ. Kansas, Lawrence, Kans.
taxonomy; ecology, animal; geographical sites..Panama; parasites; epizootiology

GM-12031 NAPOLITANO, JOSEPH J., Adelphi Univ., Garden City, N.Y.
protozoa..Singhus lonensis; cell culture; culture media; growth factors; cell differentiation

GM-12161 CORRIGAN, JOHN J., Tufts Univ. Sch. Med., Boston, Mass.
amino acids; life cycle; metamorphosis; moths; serine; D--amino acid; L --amino acid

GM-12162 TABER, RICHARD D., Sch. Vet. Med., West Pakistan Agr. Univ., Lyallpur, W. Pakistan
ecology, animal; population dynamics, animal; parasites; geographical sites..Asia

GM-12231 POULSON, THOMAS L., Yale Univ., New Haven, Conn.
stress; dark adaptation; aquatic animals; environment; sensory mechanisms; orientation; feeding; diurnal variation; basal metabolism; temperature; growth; pigments

GM-12232 ROTHSTEIN, MORTON, Kaiser Fdn. Res. Inst., Richmond, Cal.
nematodes; axenic culture; Krebs cycle; enzyme substrate; tissue respiration; amino acids

GM-12235 MIN, HONG S., Sch. Applied Biology, Georgia Inst. Techology, Atlanta, Ga.
carbohydrates; protozoa..Crithidia fasciculata; cell components..cell membrane; diffusion; protozoan culture; membrane permeability and transport; antimetabolites

GM-12248 CASIDA, JOHN E., Sch. Agr., Univ. California, Berkeley, Cal.
organophosphorus compounds; insecticides; enzyme inhibitors..antiesterases; carbmates; toxicology; plants; insects

GM-12263 FISHER, FRANK M., Jr., Rice Univ., Houston, Texas
acanthocephala; host--parasite; metabolites; life cycle; carbohydrases; bioassay; Krebs cycle; amino acids; enzymes

GM-12300 THOMPSON, FRED G., Univ. Miami, Coral Gables, Fla.
snails; ecology, animal; population dynamics, animal; taxonomy; genetic strains; life cycle; geographical sites..Mexico

GM-12301 ROBEL, ROBERT J., Col. Arts, Sci., Kansas State Univ., Manhattan, Kans.
birds; population dynamics, animal; social behavior; sex behavior; communication; seasonal variation; geographical sites..Kansas

GM-12321 ALLRED, DORALD M., Col. Biol., Agr. Sci., Brigham Young Univ., Provo, Utah
mites; taxonomy; population dynamics, animal; host--parasites; disease transmission; publications.. monograph; geographical sites..United States

GM-12322 SMITH, WILLIAM W., Col. Agr., Univ. Florida, Gainesville, Fla.
midges; population dynamics, animal; life cycle; ecology, animal; biological control; geographical sites..Florida

GM-12362 WALLIS, ROBERT C., Sch. Med., Yale Univ., New Haven, Conn.
mosquitoes; viruses..arthropod--borne viruses (unspecified); genetics..population genetics, animal; life cycle; host--virus; laboratory animals; ecology, animal; biological control

GM-12364 BECKMAN, CARL H., Col Agr., Univ., Rhode Island, Kingston, R.I.
plants; vascular wilt disease; host--parasite; fungi..plant fungi; genetics; organic compounds

GM-12389 PIRONE, THOMAS P., Louisiana State Univ., Baton Rouge, La.
viruses..plant viruses; disease transmission; membrane; plants diseases

GM-12390 MORSE, ROGER A., Col. Agr., Cornell Univ., Ithaca, N.Y.
insects bites stings venoms; venoms; chemical structure--biological activity; toxicology; seasonal variation; diet; hypersensitivity; pollen; geographical sites..United States; geographical sites..Mexico; Hymenoptera; bees; phylogeny; bacteria

GM-12403 DOWDY, WILLIAM W., Lincoln Univ., Jefferson City, Mo.
ecology, animal; arthropods; environment; soil sampling; temperature; climate..humidity; nutrients; geographical sites..Missouri

GM-12445 GEISERT, PAUL, Oak Park and River Forest High Sch., Oak Park, Ill.
deuterium; feeding; algae; protozoa..Paramecium; beetles; growth; mutation; invertebrates; nutrients

GM-12482 MEYERS, SAMUEL P., Inst. Marine Science, Miami, Fla.
marine biology; aquatic plants; sea water; fungi.. plant fungi; aquatic animals; nematodes; host--parasite; water quality; environment; population dynamics, microorganisms; microbial culture; taxonomy

GM-12496 LEGNER, E.F., Col. Agr., Univ. California, Riverside, Cal.
biological control; insects control; flies; public health; disease transmission; parasites; ecology, animal; seasonal variation; life cycle; population dynamics, animal; genetic strains; taxonomy; geographical sites..California

GM-12499 MACY, RALPH W., Portland State Col., Portland, Ore.
trematodes..Sphaeridiotrema; life cycle; host--parasite; population dynamics, animal; epizootiology; spirochetes; disease transmission

GM-12587 COIL, WILLIAM H., Grad. Sch., Univ. Kansas, Lawrence, Kans.
trematodes; host--parasite; intestines; urinary bladder; nutrition

GM-12612 HORSFALL, WILLIAM R., Grad. Col., Univ. Illinois, Urbana, Ill.
mosquitoes; dimorphism (biology); stress; heat; psychrophiles; genetic strains; life cycle; genetics.. genotypes

(contd)

TROPICAL MEDICINE AND PARASITOLOGY (CONTD)

GM-12644 SELF, J. TEAGUE, Grad. Col., Univ. Oklahoma, Norman, Okla.
trematodes..Nematobothrium texomensis; life cycle; fish; mollusks; host--parasite; ecology, animal

GM-12647 MAI, WILLIAM F., Col. Agr., Cornell Univ., Ithaca, N.Y.
nematodes..plant nematodes; viruses..plant viruses; axenic culture; disease transmission; host--virus; life cycle; plants..roots; host--parasite

GM-12652 KRASCHENINNIKOW, SERHIJ, P.O. Box 4158, Germantown Station, Philadelphia, Pa.
protozoa..Balantidium coli; cell components..cell nucleus; cell division; genetics..chromosomes; chemical structure; mutations; teratogenic agents

GM-12699 LEGNER, E.F., Col. Agr., Univ. California, Riverside, Cal.
biological control; flies; population dynamics, animal; seasonal variation; host--parasite; fungi; bacteria; infectious diseases; Hymenoptera; environment

GM-12734 COSGROVE, WILLIAM B., Grad. Sch., Univ. Georgia, Athens, Ga.
protozoa..Trypanosoma; genetic strains; cell components..organelles; deoxyribonucleic acid; chemical structure--biological activity; enzymes; cell components..mitochondria

GM-12896 KHALAF, KAMEL T., Col. Arts, Sci., Loyola Univ., New Orleans, La.
taxonomy; ecology, animal; insects; geographical sites..Louisiana

GM-13074 McDANIEL, IVAN N., Col. Life Sci., Agr., Univ. Maine, Orono, Me.
insects control; life cycle; ecology..animal; environment; detergents

GM-13163 JENSEN, THORKIL, Univ. Kansas Med. Cr., Kansas City, Kans.
protozoan culture; protozoa..Acanthamoeba; protozoan cysts; genetic strains; growth inhibitors; enzymes; chemical structure--biological activity; axenic culture; culture media

GM-13197 USINGER, ROBERT L., Col. Agr., Univ. California, Berkeley, Cal.
bedbugs; genetics..autosomes; genetics..sex chromosomes; breeding cycles

HD-00571 ROCKSTEIN, MORRIS, Sch. Med., Univ. Miami, Miami, Fla.
aging; enzymes; muscles..sarcosomes; phosphocreatine; invertebrate hormones

HD-00849 JENKINS, WILLIAM R., Agr. Expt. Station, Rutgers Univ., New Brunswick, N.J.
helminth culture; germ--free; embryology; growth factors; growth inhibitors; respiratory enzymes; nematodes

HD-00856 DALY, HOWELL V., Col. Agr., Univ. California, Berkeley, Cal.
histogenesis; muscle; skeleton

HD-00863 CHRISTIAN, ROBERT T., Univ. Michigan Med. Cr., Ann Arbor, Mich.
protozoa..Trichomonas vaginalis; host-parasite; HeLa cells; screening; toxins; microorganisms preservation; cell death

HD-01522 LANG, CALVIN A., Sch. Med., Univ. Louisville, Louisville, Ky.
mosquitoes; life cycle; metals; calcium; magnesium; nucleic acids; growth factors; aging; growth inhibitors; dietary deficiency

HD-01809 DUTZ, WERNER E., Med. Fac., Pahlavi Univ., Shiraz, Iran
Pneumocystis carenni; Pneumocystis pneumonitis; epidemiology; infant human..newborn; geographical sites..Asia; p--aminosalicylic acid; isoniazid; therapy evaluation; diagnostic tests

HD-01833 GLASS, BRYAN P., Oklahoma State Univ., Stillwater, Okla.
age; eye..lens weight; growth; population dynamics, animal

HE-06289 BALLARD, RALPH C., San Jose State Col., San Jose, Cal.
age; cardiovascular system; deoxyribonucleic acid; electrophysiology; heart; nucleic acids; tissue respiration

HE-06320 SCHNEIDERMAN, HOWARD A., Grad. Sch., Western Reserve Univ., Cleveland, Ohio
respiration; trachea; gases; trachea..intratracheal pressure; blood cells; lipids; proteins; hormones; nucleic acids

HE-06507 LAYRISSE, MIGUEL, Inst. Venezolano, Caracas, Venezuela
blood cells..erythrocytes; nematodes..Strongylata; intestinal absorption; iron; blood volume; hemoglobin; sweat; feces; cell death

HE-08480 WALLACE, CHARLES R., Med. Col. Georgia, Augusta, Ga.
pulmonary hypertension; nematodes..Dirofilaria immitis; veterinary medicine; chemotherapy

NB-03845 PIPA, RUDOLPH L., Univ. California, Berkeley, Cal.
metamorphosis; nervous system..central nervous system; invertebrate hormones; nerves..neurogenesis

NB-04961 SELF, J. TEAGUE, Grad. Sch., Univ. Oklahoma, Norman, Okla.
taxonomy; host-parasite; tissue; Pentastomida; parasitic diseases

NB-04965 ALICATA, JOSEPH E., Col. Tropical Agr., Univ. Hawaii, Honolulu, Hawaii
parasites; nematodes..Angiostrongylus cantonensis; host--parasite; life cycle; primates; immunology.. antigen--antibody reactions; lung disease; population dynamics, animal; publications..monograph; geographical sites..Hawaii; eosinophilic meningoencephalitis; nervous system disorders

WP-00209 HILSENHOFF, WILLIAM L., Col. Agr., Univ. Wisconsin, Madison, Wis.
midges; insects control; ecology, animal; water pollution; annelids..leeches; protozoa..Sporozoa

WP-03216 YOUNT, JAMES L., Midge Research Lab., Winter Haven, Fla.
water pollution; indicators; industrial wastes; nutrients; aeration; aquatic plants

WP-00372 BERNER, LEWIS, Sch. Arts, Sci., Univ. Florida, Gainesville, Fla.
water pollution; inland fresh waters; aquatic insects; ecology, animal

WP-00468 SUBLETTE, JAMES E., Col. Liberal Arts, Sci., Eastern New Mexico Univ., Portales, N. Mex.
taxonomy; midges; cytology; life cycle; geographical sites..United States, Midwest; geographical sites.. Europe; hemolymph

WP-00513 CALAWAY, WILSON T., Univ. Florida, Gainesville, Fla.
nematodes; species; ecology, animal; sewage treatment; water filters and filtration; water supply; inland fresh waters; bacteria; protozoa; nutrients

WP-00521 BRINKHURST, RALPH O., Univ. Liverpool, Liverpool, Great Britain
taxonomy; ecology, animal; species; sludge; water pollution; inland fresh waters; coastal waters; annelids

WP-00531 REISH, DONALD J., Long Beach State Col., Long Beach, Cal.
sea water; marine biology; water quality; aquatic animals; annelids; indicators; environment; hydrogen--ion concentration; temperature; oxygen; waste disposal; bioassay; nutrients

WP-00573 MOORE, HILARY B., Inst. Marine Science, Miami, Fla.
geographical sites..Florida; growth; life cycle; marine biology; population dynamics, animal; reproduction; water pollution

WP-00718 ENNS, WILBUR R., Col. Agr., Univ. Missouri, Columbia, Mo.
insects control; sewage treatment; public health; ecology, animal; ecology, plants; population dynamics, animal; algae, blue--green algae; feeding

VIROLOGY AND RICKETTSIOLOGY

AI-00097 SUGG, JOHN Y., Cornell Univ. Med. Col., N.Y.C.
viruses..influenza viruses; proteases..trypsin; virus inhibitors; sodium chloride

AI-00158 SMITH, MARGARET G., Sch. Med., Washington Univ., St. Louis, Mo.
viruses..salivary glands viruses; nucleosides; tritium; immunology..antigens; immunofluorescence; cytopathogenic effect, viral

AI-00445 BANKOWSKI, RAYMOND A., Sch. Vet. Med., Univ. California, Davis, Cal.
viruses..CELO virus; viruses..Fahey--Crawley virus; respiratory diseases; poultry; ornithosis; viruses.. myxoviruses; viruses..Newcastle disease virus; leukosis of fowl

AI-00495 MEIKLEJOHN, GORDON, Univ. Colorado Med. Cr., Denver, Colo.
viruses..Colorado tick fever virus; nervous system.. central nervous system; hemorrhage; vaccines..Colorado tick fever vaccine; virus replication; tissue culture

AI-00536 WILDMAN, SAMUEL G., Univ. California, Los Angeles, Cal.
viruses..tobacco mosaic virus; mutations; immunology.. antigens; virus replication; host-virus; radiation effects; heat; interferons

AI-00630 ADAMS, JOHN M., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
viruses..measles virus; viruses..canine distemper virus; viruses..respiratory viruses; encephalitis; measles

AI-00701 BLACK, FRANCIS L., Sch. Med., Yale Univ., New Haven, Conn.
viruses..measles virus; immunology; epidemiology; vaccines..measles vaccine; viruses..mumps virus

AI-00868 MANIRE, GEORGE P., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
viruses..meningopneumonitis virus; viruses..psittacosis virus; toxins; immunology..antigens; membrane permeability and transport; cell components..cell wall

AI-00957 AMOS, HAROLD, Sch. Med., Harvard Univ., Boston, Mass.
viruses; ribonucleic acid; cells; bacteria; messenger ribonucleic acid; actinomycin D; chloramphenicol; proteins

AI-01023 WELLER, THOMAS H., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
viruses..salivary glands viruses; molluscum contagiosum; exanthem; diagnostic tests; viruria; tissue culture; culture media; virus replication; protozoan culture; protozoa..Trypanosoma cruzi; infant human..newborn; mental retardation; congenital abnormalities; cytopathogenic effect, viral

AI-01073 YOUNG, GOERGE A., Grad. Sch., Univ. Nebraska, Lincoln, Neb.
amidases..amino acid amidase; cytotoxicity; enzymes inhibitors; host-virus; swine; tissue culture; virus diseases; virus replication

AI-01074 TWIEHAUS, MARVIN J., Grad. Sch., Univ. Nebraska, Lincoln, Nebr.
pneumonia..virus pig pneumonia; diagnostic tests; fluorescence microscopy; immunofluorescence; immune sera; influenza..swine influenza

AI-01131 MOGABGAB, WILLIAM J., Sch. Med., Tulane Univ., New Orleans, La.
climate..tropical climate; cytopathogenic effect, viral; diagnostic tests; growth inhibitors; respiratory diseases..acute respiratory diseases; serology; tissue culture; vaccines..viral vaccines; virus replication; viruses..adenoviruses; viruses..influenza viruses; viruses..parainfluenza viruses

AI-01299 EVANS, ALFRED S., Univ. Wisconsin, Madison, Wis.
respiratory diseases; viruses..respiratory viruses; epidemiology; adults

AI-01475 LENNETTE, EDWIN H., California State Dept. Pub. Hlth., Berkeley, Cal.
epidemiology; immunology; virus diseases; virus replication; viruses..Coxsackie viruses; viruses..Echo viruses; viruses..enteroviruses; viruses..influenza viruses; viruses..poliomyelitis virus; viruses..respiratory viruses

AI-01528 PARROTT, ROBERT H., Res. Fdn., Children's Hosp., Washington, D.C.
children; respiratory diseases..acute respiratory diseases; viruses..influenza viruses; viruses..parainfluenza viruses; viruses..adenoviruses; viruses..enteroviruses; viruses..respiratory syncytial viruses; bacteria..Mycoplasma pneumoniae; diagnostic tests; serology

AI-01564 ATKINS, ELISHA, Sch. Med., Yale Univ., New Haven, Conn.
ascites; bacteria..Staphylococcus aureus; blood cells..leukocytes; blood cells..monocytes; exudates; hypersensitivity tests; passive sensitization transfer factor; pyrogens; spleen; tuberculin hypersensitivity; viruses..Newcastle disease virus

AI-01594 MOULDER, JAMES W., Sch. Biol. Sci., Univ. Chicago, Chicago, Ill.
bedsonia..psittacosis virus; bedsonia..meningopneumonitis virus; nucleic acids; glucose; L--cells; D--cycloserine; antibiotics..chlortetracycline

AI-01595 KILBOURNE, EDWARD D., Sch. Med., Cornell Univ., N.Y.C.
cortisone; genetics; hormones; host-virus; interferons; latent virus diseases; virulence, microorganisms; viruses..influenza viruses; viruses..myxoviruses

AI-01632 KEMPE, C. HENRY, Univ. Colorado Med. Cr., Denver, Colo.
smallpox; gamma globulin; N-methylisatin B-thiosemicarbazone; therapy evaluation; pregnancy; hemorrhage; air sampling; epidemiology; vaccines..vaccinia virus vaccine; attenuation, microorganisms; precipitin technique; children; adjuvants

AI-01675 RUSTIGIAN, ROBERT, Sch. Med., Tufts Univ., Boston, Mass.
cell culture; disease transmission; host-virus; interferons; latent virus diseases

AI-01695 FINLAND, MAXWELL, Boston City Hosp., Boston, Mass.
virus diseases; immunity; pneumonia..virus pneumonia; pneumonia..bacterial pneumonia; exanthem; children

AI-01725 GREEN, MAURICE, Sch. Med., St. Louis Univ., St. Louis, Mo.
virus replication; viruses..adenoviruses; cell culture; KB cells; deoxyribonucleic acid; polymerases; viruses..oncogenic viruses

AI-01799 KOPROWSKI, HILARY, Wistar Inst. Anatomy, Biology, Philadelphia, Pa.
viruses..poliomyelitis virus; lymph; blood; vaccines..poliomyelitis live vaccine; immunology..antibodies; intestines; genetics; virulence, microorganisms; tissue culture; virus replication; viruses..rubella virus; pregnancy

AI-01990 DUDDINGH, G. JOHN, Sch. Med., Louisiana State Univ., New Orleans, La.
viruses..influenza viruses; bacteria..Hemophilus influenzae; virus replication; virus inhibitors; growth, microorganisms

AI-01992 ENDERS, JOHN F., Children's Hosp., Med. Cr., Boston, Mass.
host-virus; interferons; cytopathogenic effect, viral; epidemiology; viruses..measles virus; viruses..oncogenic virus; viruses..hepatitis viruses

AI-02031 RANDALL, CHARLES C., Univ. Mississippi Med. Cr., Jackson, Miss.
viruses..fowl pox virus; inclusion bodies; radiolabeled phosphorus; cytopathogenic effect, viral; chemical structure--biological activity

AI-02032 RANDALL, CHARLES C., Sch. Med., Univ. Mississippi, Jackson, Miss.
viruses..equine rhinopneumonitis virus; cytopathogenic effect, viral; nucleic acids; hepatitis

AI-02316 SULKIN, S. EDWARD, Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
viruses..rabies virus; bats; disease transmission; latent virus diseases; adipose tissue; ecology, animal; tissue culture

AI-02329 BERGE, TRYGVE O., American Type Culture Collection, Washington, D.C.
viruses..oncolytic viruses; rickettsia; cell culture collections; viruses..enteroviruses; viral typing reagents; information exchange; cooperative study

AI-02396 KARZON, DAVID T., Children's Hosp., Buffalo, N.Y.
viruses..ECHO viruses; serotypes; immunology..antigens; genetics; cytotoxicity; hemagglutination inhibition; complement--fixation tests; viruses..measles virus; vaccines; immunology..antigen--antibody reactions

AI-02405 HENLE, WERNER, Children's Hosp., Philadelphia, Pa.
viruses..influenza viruses; viruses..poliomyelitis virus; vaccines..influenza virus vaccines; latent virus diseases; complement--fixation tests; diagnostic tests; immunology..antigens; immunology..antibodies; host--virus; fluorinated hydrocarbons; interferons

AI-02454 GRAHAM, ANGUS F., Wistar Inst., Philadelphia, Pa.
host--virus; ribonucleic acid; proteins; viruses..Mengo virus; L--cells; viruses..bacteriophage; bacteria..Escherichia coli; viruses..reovirus

AI-02514 LIU, CHIEN, Sch. Med., Univ. Kansas, Kansas City, Kans.
cytopathogenic effect (viral); immunofluorescence; viruses..enteroviruses; viruses..respiratory viruses

AI-02535 HEBERLING, RICHARD L., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
viruses..enteroviruses; primates..monkeys; taxonomy; epizootiology; longitudinal study; cooperative study

AI-02540 ROSS, A. FRANK, Col. Agr., Cornell Univ., Ithaca, N.Y.
viruses..barley yellow dwarf virus; viruses..potato virus X; aphids; plants..leaves; immunity; hypersensitivity; disease transmission; bioassay; viruses..potato virus Y; viruses..tobacco mosaic virus

AI-02686 HAMMON, WILLIAM M., Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
epidemic hemorrhagic fevers; geographical sites..Asia; geographical sites..Philippines; viruses..arthropod-borne viruses (unspecified); viruses..dengue virus; viruses..chikungunya virus; epidemiology; disease transmission; mosquitoes; geographical sites..Florida

AI-02707 RENDTORFF, ROBERT C., Sch. Med., Univ. Tennessee, Memphis, Tenn.
children; diagnostic tests; epidemiology; longitudinal study; vaccines..viral vaccines; viruses..enteroviruses; viruses..parainfluenza viruses; viruses..respiratory viruses

AI-02792 VAN VUNAKIS, HELEN, Brandeis Univ., Waltham, Mass.
viruses..bacteriophage; bacteria..Escherichia coli; virus capsid; immunology..antibodies; molecular structure; cell--free systems; proteins; antibiotics, colicines; nucleic acids; photosensitivity; dyes

AI-02822 PARKER, HAZEL D., Montana State Col., Bozeman, Mont.
viruses..psittacosis--lymphanogranuloma--trachoma group viruses; viruses..feline pneumonitis virus; pneumonia; encephalomyelitis; arthritis; complement--fixation tests; immunology..antigens; cell components..cell wall; viruses..sheep abortion virus; epizootiology; pregnancy..abortion

AI-02891 FISHER, THELMA N., Sch. Med., Tulane Univ., New Orleans, La.
host--virus; viruses..herpes simplex virus; nucleic acids; glycolysis; pentose pathway; virus replication

AI-02953 HO, MONTO, Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
virus diseases; immunity; cell; interferon; virus replication; cell culture; reaction sites; viruses..arthropod--borne viruses (unspecified); viruses..myxoviruses; viruses..adenoviruses

AI-02954 KOPROWSKI, HILARY, Wistar Inst., Philadelphia, Pa.
viruses..rabies virus; dextran; cesium chloride; ultraviolet rays; host--virus; interferons; immune sera; therapy; vaccines..viral vaccines; genetic strains

AI-03028 REEVES, WILLIAM C., Sch. Pub. Hlth., Univ. California, Berkeley, Cal.
arthropods; disease transmission; ecology (animal); epidemiology; hemagglutination inhibition; host-virus; insects control; seasonal variation; serology; statistics; tissue culture; viruses..St. Louis encephalitis virus; viruses..western encephalitis virus

AI-03079 WARD, ROBERT, Children's Hosp., Los Angeles, Cal.
children; infants, human; virus diseases

AI-03148 CORBETT, M. KENNETH, Sch. Agr., Univ. Florida, Gainesville, Fla.
electron microscopy; molecular structure; nucleic acids; proteins; ribonucleic acid; viruses..potato virus X

AI-03149 MOHANTY, SASHI B., Univ. Maryland, College Park, Md.
veterinary medicine; respiratory diseases..acute respiratory diseases; viruses..parainfluenza viruses; viruses..adenoviruses; eye; bacteria..Pasteurella; epizootiology; disease transmission

AI-03168 HOWE, CALDERON, Col. Phys., Surg., Columbia Univ., N.Y.C.
blood cells..erythrocytes; blood groups; carbohydrases..neuraminidase; cell components..cytoplasm; genetic strains; immunology..antigens; panagglutination; viruses..myxoviruses

AI-03217 LUGINBUHL, ROY E., Univ. Connecticut, Storrs, Conn.
viruses..enteroviruses; cytopathogenic effect, viral; viruses..CELO virus; viruses..ECBO viruses; viruses..avian encephalomyelitis virus; diagnostic tests; blood..serum; epizootiology; poultry

(contd)

VIROLOGY AND RICKETTSIOLOGY (CONTD)

AI-02292 HAMRE, DOROTHY M., Sch. Med., Univ. Chicago, Chicago, Ill.
respiratory diseases..acute respiratory diseases; viruses.. respiratory viruses; immunological tests; kidney cells; primates..monkeys

AI-03293 LOOSLI, CLAYTON G., Sch. Med., Univ. Southern California, Los Angeles, Cal.
influenza..Asian influenza; conferences; publications.. book; publications, literature survey

AI-03340 FOX, JOHN P., Pub. Hlth. Res. Inst., New York, N.Y.
epidemiology; virus diseases; viruses..ECHO viruses; cytopathogenic effect, viral; viruses..respiratory viruses; viruses..infectious mononucleosis virus; immunology; intestines; vaccines..measles vaccine; vaccines.. poliomyelitis vaccine; infant human; viruses..adeno-viruses; viruses..Rhinoviruses; bacteria..Mycoplasma pneumoniae; serology

AI-03362 KAPLAN, ALBERT S., Albert Einstein Med. Cr., Philadelphia, Pa.
viruses..pseudorabies virus; cytopathogenic effect, viral; host--virus; immunofluorescence

AI-03391 GROMAN, NEAL B., Sch. Med., Univ. Washington, Seattle, Wash.
viruses..bacteriophage lambda; bacteriolysis; mutations; endolysin

AI-03393 DU BOSE, ROBERT T., Sch. Agr., Virginia Polytechnic Inst., Blacksburg, Va.
viruses..avian infectious bronchitis virus; virus replication; cytopathogenic effect, viral; host-virus; mutations; latent virus diseases; interferons

AI-03394 TAKAHASHI, WILLIAM N., Sch. Agr., Univ. California, Berkeley, Cal.
viruses; proteins; cell components..ribosomes; nucleases.. ribonucleases; nucleic acids; amino acid; radiolabeled carbon; synthesis

AI-03415 SCHLEGEL, DAVID E., Col. Agr., Univ. California, Berkeley, Cal.
viruses..plant viruses; plants..roots; cytology; radioautography; virus replication; nucleic acids; immune sera

AI-03445 TAMM, IGOR, Rockefeller Inst., N. Y. C.
viruses; cytopathogenic effect, viral; hyperplasia; necrosis; enzymes; cell division..mitosis; virus replication; benzimidazoles; virus inhibitors

AI-03536 BUBEL, HANS C., Sch. Med., Univ. Cincinnati, Cincinnati, Ohio
viruses..vaccinia virus; chemical structure--biological activity; interferon; cytopathogenic effect, viral

AI-03537 SMITH, HUGH H., Col. Liberal Arts, Univ. Arizona, Tucson, Ariz.
viruses..arthropod-borne viruses (unspecified); viruses.. western encephalitis virus; epidemiology; geographical sites..Arizona; disease transmission; immunology; viruses..St. Louis encephalitis virus

AI-03538 LOCKART, ROYCE Z., Jr., Col. Arts, Sci., Univ. Texas, Austin, Tex.
viruses..western encephalitis virus; cytopathogenic effect, viral; L-cells; interferons; viruses..noncytopathogenic viruses; virus replication; mutations

AI-03619 MARCUS, PHILIP I., Albert Einstein Col. Med., Bronx, N.Y.
viruses..Newcastle disease virus; HeLa cells; nucleic acids; host--virus; viruses..poliomyelitis virus; viruses.. vaccinia virus; surface properties; giant cells (non-specific); blood cells..erythrocytes; adsorption

AI-03620 GINSBERG, HAROLD S., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
cytopathogenic effects, viral; deoxyribonucleic acid; mitomycin C; molecular structure; molecular weight; proteins; ribonucleic acid; viruses..adenoviruses; viruses ..oncogenic viruses

AI-03690 COCHRAN, GEORGE W., Col. Sci., Utah State Univ., Logan, Utah
viruses..plant viruses; plants diseases; cell-free systems; ribonucleic acid

AI-03718 CANDAU, MARCOLINO G., World Hlth. Orgn., Geneva, Switzerland
virus diseases; immunology; vaccines; preventive medicine; survey; information exchange; World Health Organization

AI-03771 CROWELL, RICHARD L., Hahnemann Med. Col., Philadelphia, Pa.
viruses..Coxsackie viruses; HeLa cells; immunity; host-virus; latent virus diseases; cell culture; virus inhibitors

AI-03776 ELBERG, SANFORD S., Sch. Letters, Sci., Univ. California, Berkeley, Cal.
viruses..Staphylococcal phage; bacteria..Staphylococcus; cell components..cell wall; cytolysins; carbohydrates.. lysozyme; immunity; host--virus

AI-03812 GARABEDIAN, GARABED A., Sch. Med., American Univ., Beirut, Lebanon
aseptic meningitis; immunological tests; viruses..polio-myelitis virus; viruses..mumps virus; viruses..arthropod-borne group A viruses; viruses..arthropod-borne group B viruses; spirochetes..Leptospira

AI-03820 WATRACH, ADOLF M., Col. Vet. Med., Univ. Illinois, Urbana, Ill.
inclusion bodies; laryngotracheitis..avian infectious laryngotracheitis; kidney; tissue culture; cytopathogenic effect, viral; deoxyribonucleic acid; giant cells; viruses ..avian infectious laryngotracheitis virus; chemical structure

AI-03846 HOTCHIN, JOHN E., New York State Dept. Hlth., Albany, N.Y.
hepatitis..mouse hepatitis; therapy; viruses..oncogenic viruses; lymphocytic choriomeningitis; hypersensitivity.. delayed hypersensitivity; endotoxins; immunology..auto-immunology; viruses..polyoma virus

AI-03874 GORDON, IRVING, Sch. Med., Univ. So. California, Los Angeles, Cal.
aminopterin; cytopathogenic effect (viral); genetic strains; heat lability; nucleosides; tissue culture; virus replication; viruses..measles virus; viruses.. Sindbis virus

AI-03971 FONG, JACOB, Univ. California, Berkeley, Cal.
cytopathogenic effects, viral; hemagglutinins; hypersensitivity..delayed hypersensitivity; immunology.. antibodies; immunology..antigens; viruses..influenza viruses

AI-04014 CHANG, PEI W., Univ. Rhode Island, Kingston, R.I.
viruses..CELO virus; contamination; tissue culture; interferon

AI-04043 SIX, ERICH W., Col. Med., State Univ. Iowa, Iowa City, Iowa
viruses..bacteriophage P2; viruses..prophage; bacteria.. Escherichia coli; lysogeny; genetics..chromosomes

AI-04044 POLSON, A., Sch. Med., Univ. Cape Town, Cape Town, South Africa
viruses..arthropod--borne viruses (unspecified); viruses.. African horsesickness virus; viruses..bluetongue virus; viruses..ECBO viruses; viruses..CBO viruses; viruses.. West Nile virus; viruses..Rift Valley fever virus; viruses ..rabies virus; blood..serum; immunology..antigens; nucleic acids; molecular structure

AI-04059 JACKSON, GEORGE G., Col. Med., Univ. Illinois, Chicago, Ill.
viruses..respiratory viruses; growth, microorganisms

AI-04084 POND, WILLIAM L., Sch. Med., Univ. Miami, Miami, Fla.
viruses..arthropod--borne viruses (unspecified); encephalitis; aseptic meningitis; diagnostic tests; epi-zootiology; disease transmission; preventive medicine

AI-04130 CURNEN, EDWARD C., Jr., Col. Phys., Surg., Columbia Univ., New York, N.Y.
aseptic meningitis; poliomyelitis--like diseases; diagnostic tests; viruses

AI-04137 GREIFF, DONALD, Sch. Med., Marquette Univ., Milwaukee, Wis.
viruses..measles virus; viruses..canine distemper virus; viruses..influenza viruses; viruses..poliomyelitis virus; viruses..hepatitis viruses; Rickettsia..Coxiella burnetii; Rickettsia..Rickettsia typhi; Rickettsia..Rickettsia akari; freeze--drying; viruses..parainfluenza; viruses..SV40 viruses; viruses..respiratory syncitial viruses; viruses.. adenoviruses

AI-04186 KEMPE, C. HENRY, Univ. Colorado Med. Cr., Denver, Colo.
vaccines..measles vaccine; gamma globulin; longitudinal study; encephalitis; children; therapy evaluation

AI-04211 KOHN, ALEXANDER, Beilinson Hosp., Petah Tikva, Israel
viruses..myxoviruses; blood cells..thrombocytes; megakaryocytes; thrombocytopenia; blood coagulation; bone marrow; glycolysis; phosphomonoesterases.. alkaline phosphatase; viruses..encephalomyocarditis virus

AI-04228 RODANICHE, ENID de, Sch. Med., Univ. Panama, Panama, R.P.
viruses..arthropod--borne viruses (unspecified); taxonomy; geographical sites..Latin America; immunological tests; epidemiology; zoonoses

AI-04229 SIMINOVITCH, LOUIS, Univ. Toronto, Toronto, Canada
viruses..vaccinia virus; viruses..encephalomyocarditis virus; L cells; virus replication; radiation sensitivity; heat; attenuation (microorganisms); mutations; host-virus; deoxyribonucleic acid; ribonucleic acid; viruses..polyoma virus; viruses..Bacteriophage lambda; bacteria..Escherichia coli; genetics

AI-04248 YOSHINO, KAMESABURO, Sch. Med., Yokohama City Univ., Yokohama, Japan
vaccines..rabies vaccine; viruses..Nishigahara 0-30-M rabies virus; propiolactone; virus replication

AI-04294 CLEMMER, DOROTHY I., Sch. Med., Tulane Univ., New Orleans, La.
viruses..enteroviruses; host--virus; immunology; virus replication; gastrointestinal system; viruses..adenoviruses

AI-04305 KIBRICK, SIDNEY, Sch. Med., Boston Univ., Boston, Mass.
nervous system..central nervous system; virus diseases; cerebrospinal fluid; blood cells..leukocytes; cytology; heparin

AI-04310 HANSHAW, JAMES B., Univ. Rochester, Rochester, N.Y.
viruses..salivary glands viruses; microbial culture; chronic disease; liver diseases; liver function

AI-04322 STEVENS, RUSSELL B., George Washington Univ., Washington, D.C.
host-virus; molecular structure; mutations; ribonucleic acid; virus replication; viruses..cucumber mosaic virus; viruses..tumio yellow mosaic virus

AI-04323 DEINHARDT, FRIEDRICH, Presbyterian-St. Luke's Hosp., Chicago, Ill.
attentuation, microorganisms; interferons; vaccines.. mumps vaccine; virus replication; viruses..mumps virus

AI-04335 **GREEN, ROBERT H., New York Univ. Med. Cr., New York, N.Y.**
virus..rubella virus; virus replication; tissue culture; gamma globulin; congenital abnormalities; vaccines

AI-04360 **HIRST, GEORGE K., Pub. Hlth. Res. Inst., New York, N.Y.**
viruses..influenza viruses; viruses..poliomyelitis virus; microbial culture; fibroblasts; genetics; virus capsid; immunology..antibodies; genetic mapping; genetics.. recombination; bacteriocins; chemical structure--biological activity; bacteria..Diplococcus pneumoniae

AI-04361 **GIFFORD, GEORGE E., Col. Med., Univ. Florida, Gainesville, Fla.**
viruses..poliomyelitis virus; HeLa cells; virus replication; growth inhibitors; interferons; viruses..vaccinia virus

AI-04372 **BARRON, AIMEN L., Sch. Med., State Univ. New York, Buffalo, N.Y.**
viruses..enteroviruses; taxonomy; serotypes; cytopathogenic effect, viral; viruses..ECHO viruses; viruses.. measles virus; immunological tests; immune sera

AI-04375 **WEHRLE, PAUL F., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
nervous system..central nervous system; nervous system disorders; primates..monkeys; viruses..ECHO viruses; viruses..enteroviruses

AI-04397 **GOLDFIELD, MARTIN, New Jersey Dept. Hlth., Trenton, N.J.**
eastern encephalitis; ecology, animal; mosquitoes; birds; horses; viruses..arthropod-borne viruses (unspecified); disease transmission; immunological tests; western encephalitis

AI-04406 **MEYER, K.F., Univ. California Med. Cr., Los Angeles, Cal.**
bedsonia..psittacosis virus; chemotherapy; vaccines; birds; preventive medicine

AI-04435 **RAFELSON, MAX E., Jr., Presby-St. Luke's Hosp., Chicago, Ill.**
carbohydrases..neuraminidase; chemical structure--biological activity; genetic strains; immunology; viruses.. influenza viruses

AI-04448 **HASELKORN, ROBERT, Univ. Chicago, Chicago, Ill.**
viruses..plant viruses; enzymes; ribonucleic acid; chemical structure--biological activity; proteins

AI-04457 **ISACSON, EDWIN P., Sch. Med., Yale Univ., New Haven, Conn.**
blood cells..erythrocytes; blood groups; carbohydrases.. neuraminidase; cytopathogenic effect, viral; immunology.. agglutinins; immunology..antigens; immunology..isoantibodies; viruses..DA virus; viruses..myxoviruses

AI-04486 **IKIC, DRAGO, Inst. Immunology, Zagreb, Yugoslavia**
vaccines..poliomyelitis live vaccine; infant human.. newborn; adults; longitudinal study; viruses..enteroviruses; virus diseases; immunological tests; diagnostic tests; therapy evaluation; geographical sites..Europe

AI-04492 **GAINER, JOSEPH H., Florida Dept. Agr., Kissimmee, Fla.**
viruses..equine infectious anemia virus; diagnostic tests; immunological tests; hypersensitivity tests; lipoproteins; blood..serum; hyperglobulinemia; disease transmission; chemotherapy

AI-04506 **MIRAND, EDWIN A., Sch. Med., Univ. Buffalo, Buffalo, N.Y.**
erythropoietin; genetic strains; germ--free; hematology; host--virus; nucleic acids; polycythemia; viruses..Friend virus

AI-04519 **KAISER, ARMIN D., Sch. Med., Stanford Univ. Palo Alto, Calif.**
virus replication; viruses..bacteriophage lambda; deoxyribonucleic acid; bacteria..Escherichia coli; genetics; chemical structure--biological activity

AI-04531 **PFEFFERKORN, ELMER R., Sch. Med., Harvard Univ., Boston, Mass.**
viruses..Sindbis virus; fibroblasts; fractionation; virus replication; nucleoproteins; ribonucleic acid; genetics.. recombination; chemical structure

AI-04535 **MICHAELS, RICHARD H., Children's Hosp. of Pittsburgh, Pittsburgh, Pa.**
viruses..enteroviruses; immunology..antibodies; milk; colostrum; infant human..newborn; globulins; virus inhibitors

AI-04565 **PASCHKE, JOHN D., Sch. Agr., Purdue Univ., Lafayette, Ind.**
insects diseases; viruses..granulosis virus, insect; viruses ..polyhedral virus, insect

AI-04566 **McCOLLUM, ROBERT W., Sch. Med., Yale Univ., New Haven, Conn.**
disease transmission; ecology (microorganisms); genetic strains; immunology..antigens; serotypes; viruses.. eastern encephalitis virus; viruses..western encephalitis virus

AI-04644 **GOODHEART, CLYDE R., Childrens Hosp. Los Angeles, Los Angeles, Cal.**
viruses..encephalomyocarditis virus; virus replication; immunology; host-virus; nucleic acids; proteins

AI-04661 **BANKOWSKI, RAYMOND A., Sch. Vet. Med., Univ. California, Davis, Cal.**
gastroenteritis; viruses; poliomyelitis--like diseases; swine; ecology, microorganisms; serology; cytopathogenic effect, viral; bacteria..Escherichia coli; immunity; colostrum

AI-04681 **BURROUGHS, A.L., Sch. Vet. Med., Kansas State Univ., Manhattan, Kans.**
viruses..respiratory viruses; epizootiology; veterinary medicine; disease transmission; age; immunology.. antibodies; seasonal variation; viruses..parainfluenza viruses; bacteria..Pasteurella

AI-04685 **LOH, PHILIP C., Grad. Sch., Univ. Hawaii, Honolulu, Hawaii**
viruses..vaccinia virus; virus replication; nucleic acids; proteins

AI-04688 **BURRELL, ROBERT G., Sch. Med., West Virginia Univ., Morgantown, W.Va.**
respiratory diseases..acute respiratory diseases; diagnostic tests; viruses..respiratory viruses; immunofluorescence

AI-04702 **St. GEME, JOSEPH W., Jr., Med. Sch., Univ. Minnesota, Minneapolis, Minn.**
viruses..vaccinia virus; tissue culture; skin; infant human ..newborn; children; adults; biopsy techniques; virus replication; host-virus; age; genetics; hypogammaglobulinemia; immunity

AI-04728 **COLTER, JOHN S., Sch. Med., Grad., Univ. Alberta, Edmonton, Alberta, Canada**
nucleic acids; viruses..oncogenic viruses; viruses.. polyoma virus; viruses..Mengo viruses; carcinogenesis; radiolabeled; neoplastic cells; immunology..antigens

AI-04733 **WHEELER, CLAYTON E., Jr., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
viruses..herpes simplex virus; latent virus diseases; mutations; blood..serum; immunology..antibodies; therapy; heat; radiation effects; blood vessels vasomotion; transplantation..homotransplantation; skin; giant cells (nonspecific); ultraviolet rays

AI-04734 **WHEELER, CLAYTON E., Jr., Sch. Med., Univ. North Carolina, Chapel Hill, N.C.**
viruses..herpes simplex virus; virulence, microorganisms; genetic strains; tissue culture; temperature; hydrogen-ion concentration; attenuation, microorganisms; cell-free systems; immunology..antibodies; immunological tests; eye.. cornea

AI-04753 **PARODI, ARMANDO S., Sch. Med., Univ. Buenos Aires, Buenos Aires, Argentina**
viruses..Junin virus; Argentine hemorrhagic fever; genetic strains; immunology..antigens; mutations

AI-04759 **EDDIE, B., Sch. Med., Univ. California, San Francisco, Cal.**
viruses..psittacosis--lymphogranuloma--trachoma group viruses; immunology..antigens; diagnostic tests; epidemiology; taxonomy; poultry; ectozoic parasites; disease transmission

AI-04776 **SCHLUEDERBERG, ANN E., Sch. Med., Yale Univ., New Haven, Conn.**
viruses..measles virus; vaccines..measles vaccine; immunology..antibodies; hypersensitivity; primates.. monkeys

AI-04827 **OSTERHOUT, SUYDAM, Duke University Med. Cr., Durham, North Carolina**
latent virus diseases; viruses..herpes simplex virus; cytopathogenic effect, viral; amnion; cell; heat lability; ultraviolet rays; cortisone; nasopharynx; immune sera

AI-04832 **BEST, RUPERT J., Waite Agr. Res. Inst., Glen Osmond, South Australia**
viruses..tomato spotted wilt virus; genetics..hybrids; proteins; nucleic acids; molecular structure

AI-04911 **HUMMELER, KLAUS, Children's Hosp., Philadelphia, Pa.**
electron microscopy; host-virus; immunological tests; immunology..antibodies; immunology..antigens; proteins denaturation; serotypes; virus-like particles; viruses.. influenza viruses; viruses..Newcastle disease virus; viruses..oncogenic viruses; viruses..poliomyelitis virus; viruses..vesicular stomatitis virus

AI-04912 **REISSIG, MAGDALENA, Sch. Hyg., Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.**
adsorption; cytopathogenic effect (viral); electron microscopy; enzymes; host-virus; membrane permeability; pinocytosis; virus replication; viruses..Newcastle disease virus

AI-04913 **JOKLIK, WOLFGANG K., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.**
adsorption; chemical structure--biological activity; deoxyribonucleic acid; enzymes; host-virus; molecular structure; molecular weight; proteins; radiolabeled; virus replication; viruses..pox viruses

AI-04973 **MATTHEWS, RICHARD E.F., Fac. Sci., Univ. Auckland, Auckland, New Zealand**
viruses..turnip yellow mosaic virus; viruses..plant viruses; fractionation; cell components..ribosomes; cell components..polysomes; proteins; virus inhibitors; thiouracil; virus--like particles; immunology..antigens; ribonucleic acid; deoxyribonucleic acid; nucleotide sequence; nucleases

AI-04975 **BARLOW, JAMES L., Health Research, Inc., Albany, N.Y.**
immunology..antigens; viruses..LCM virus; host--virus; endotoxins

AI-04998 **CHANG, ROBERT S., Harvard Sch. Pub. Hlth., Boston, Mass.**
hepatitis..infectious hepatitis; hepatitis..serum hepatitis; liver cirrhosis; radiation effects; viruses; endotoxins; immunological tests; lipids; virus capsid

(contd)

VIROLOGY AND RICKETTSIOLOGY (CONTD)

AI-05009 HODES, HORACE L., Mt. Sinai Hosp., N.Y.C.
chemical structure--biological activity; chromatography; colostrum; Hela cells; immunity; infants (human); milk; pregnancy..placental transfer; radiolabeled phosphorus; virus inhibitors; viruses..Coxsackie viruses; viruses.. ECHO viruses; viruses..poliomyelitis virus

AI-05010 FLANAGAN, JOHN F., Sch. Med., Duke Univ., Durham, N.C.
viruses..herpes virus; deoxyribonucleic acid; ribonucleic acid; proteins; chemical structure; virus replication; host-virus; immunology..antigens

AI-05038 SEECOF, ROBERT L., City Hope Med. Cr., Duarte, Cal.
Drosophila melanogaster; genetics; host-virus; latent virus diseases; lysogeny; sigma factor; virus-like particles; virus replication; viruses..insects viruses

AI-05058 WEHRLE, PAUL F., Sch. Med., Univ. Southern California, Los Angeles, Cal.
viruses..respiratory viruses; children; epidemiology; geographical sites..California; hospitals patients

AI-05097 HANSON, ROBERT P., Sch. Agr., Univ. Wisconsin, Madison, Wis.
cell culture collections; genetic strains; immune sera; immunology..antigens; mutations; vaccines..viral vaccines; virus replication; viruses..Newcastle disease virus

AI-05110 DOLL, ELVIS R., Col. Agr., Univ. Kentucky, Lexington, Ky.
epizootiology; viruses..influenza viruses; viruses..parainfluenza viruses; immunology; immunological tests; vaccines..viral vaccines

AI-05120 SHECHMEISTER, ISAAC L., Southern Illinois Univ., Carbondale, Ill.
viruses..vesicular stomatitis virus; viruses..meningopneumonitis virus; radiation effects; ultraviolet rays; x-rays; genetics..recombination; mutations; nucleic acids; reaction sites; photochemistry

AI-05148 LIEBHABER, HARVEY, Sch. Med., New York Univ., New York, N.Y.
viruses..rubella virus; viruses..hepatitis viruses; tissue culture; ion exchange and transport; binding; chemical structure--biological activity; genetic strains; virulence, microorganisms; instrumentation--methodology; counter-current fractionation; host--virus

AI-05185 McCREA, JOHN FALDING, Yale Sch. Med., New Haven, Conn. viruses..Vaccinia virus; viruses..Herpes simplex virus; deoxyribonucleic acid; 5-iododeoxyuridine; chemical structure--biological activity; virus inhibitors

AI-05231 SCHARFF, MATTHEW D., Albert Einstein Col. of Med., Bronx, N.Y.
viruses..poliomyelitis virus; viruses..adenoviruses; virus replication; proteins; ribonucleic acid; deoxyribonucleic acid; immunological tests; cell culture; chemical structure

AI-05245 ROESEL, CATHERINE E., Medical Col. Georgia, Augusta, Ga.
viruses..bacteriophage T; genetic strains; immune sera; immunology..antibodies; immunology..blocking antibodies; hypersensitivity; heat lability; reaction sites

AI-05249 LEVY, ALLAN H., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
interferons; virus inhibitors; proteins; mathematical models; growth, microorganisms; nucleic acids

AI-05296 BALL, ERNEST A., North Carolina State Col., Raleigh, N.C.
tobacco; viruses..tobacco mosaic virus; cell culture; growth; cell division; virus replication; cytology; cytopathogenic effect, viral

AI-05313 HSIUNG, GUEH-DJEN, Sch. Med., Yale Univ., New Haven, Conn.
viruses..simian viruses; tissue culture; kidney cells; primates..monkeys; taxonomy

AI-05320 FRANKLIN, RICHARD M., Univ. Colorado Med. Cr., Denver, Colo.
viruses..bacteriophage; ribonucleic acid; enzymes; proteins; virus replication

AI-05333 KATHAN, RALPH H., Col. Med., Univ. Illinois Res. Educ. Hosp., Chicago, Ill.
hemagglutination; virus inhibitors; glycoproteins; N--acetylneuraminic acid; chemical structure--biological activity; binding; enzymes; viruses..myxoviruses; blood groups.. blood group M; blood groups..blood group N

AI-05356 BEALE, HELEN P., Boyce Thompson Inst. Plant Res., Yonkers, N.Y.
publication..literature survey; viruses..plant viruses; documentation systems

AI-05374 KALTER, S.S., Southwest Fdn. Res. and Educ., San Antonio, Tex.
primates..baboons; viruses..poliomyelitis virus; viruses.. Coxsackie viruses; viruses..ECHO viruses; host-virus; kidney cells; tissue culture; vaccines..viral vaccines; immune sera

AI-05398 RAPP, FRED, Sch. Med., Baylor Univ., Houston, Texas
cytopathogenic effect, viral; genetics; host-virus; immunofluorescence; latent virus diseases; virus replication; viruses..herpes simplex virus

AI-05405 MATA, LEONARDO, Inst. Nutrition, Central America & Panama, Guatemala, Guatemala
children; diarrhea; geographical sites..Guatemala; infants; nutrition; serology; viruses

AI-05432 MADOFF, MORTON A., New England Cr. Hosp., Boston, Mass.
viruses..myxoviruses; neuraminic acid; carbohydrases.. neuraminidase; proteases; enzymes substrate; blood cells..erythrocytes; blood cells..thrombocytes; immunology ..antigen-antibody reactions; reaction sites; chemical structure..biological activity; radiolabeled; isohemagglu-

AI-05478 GAUSH, CHARLES R., Sch. Med., State Univ. South Dakota, Vermillion, S.D.
lipids; lipids..serum lipids; HeLa cells; kidney cells; viruses..influenza viruses; viruses..vaccinia virus; viruses..Western encephalitis virus; host-virus; radiolabeled; fractionation

AI-05494 CRAIGHEAD, JOHN E., Harvard Med. Sch., Boston, Mass.
viruses..parainfluenza viruses; respiratory diseases; lung; trachea; nose; spleen; lymph nodes; host-virus; immunology..antigen-antibody reactions; immunity..cross immunity; bioassay

AI-05501 TURNER, WILLIE, Meharry Med. Col., Nashville, Tenn.
viruses..arthropodborne viruses (unspecified); immunological tests; immunology..antigen-antibody reactions; diagnostic tests

AI-05509 DOWNS, CORA M., Col. Liberal Arts, Sci., Univ. Kansas, Lawrence, Kans.
bacteria..Pasteurella tularensis; rickettsia..Coxiella burnetii; host--parasite; phagocytosis; blood cells.. monocytes; virulence, microorganisms; genetics strains; immunity; immune sera; fluorescent dyes

AI-05549 CUNNINGHAM, CHARLES H., Col. Vet. Med., Michigan State Univ., Lansing, Mich.
viruses..avian infectious bronchitis virus; proteases.. trypsin; hemagglutination; hemagglutinin inhibitors; hemagglutinins; immunology..antigens; pregnancy.. allantoic fluid; growth, microorganisms; serology; blood cells..erythrocytes

AI-05566 LORING, HUBERT S., Sch. Humanities, Sci., Stanford Univ., Stanford, Cal.
viruses..tobacco mosaic virus; nucleic acids; calcium; magnesium; binding; molecular structure

AI-05570 GOLD, ELI, Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
viruses..herpes simplex virus; chemical structure; immunology..antigens; p-fluorophenylalanine; enzymes inhibitors; proteins; deoxyribonucleic acid; virus replication geographical sites..Connecticut

AI-05577 HORSTMANN, DOROTHY M., Sch. Med., Yale Univ., New Haven, Conn.
research programs; viruses..poliomyelitis virus; viruses.. enteroviruses; viruses..respiratory viruses; genetic strains; host--virus; immunity; vaccines..viral vaccines; serology; epizootiology; epidemiology; longitudinal study

AI-05589 BARNETT, HERBERT C., Sch. Med., Univ. Maryland, Baltimore, Md.
viruses..arthropod-borne viruses (unspecified); ecology, microorganisms; epidemiology; immunity; disease transmission; zoonoses; arthropods; environment; geographical sites..Pakistan

AI-05600 CHOPPIN, PURNELL W., The Rockefeller Inst., New York, N.Y.
viruses..influenza viruses; viruses..Coxsackie viruses; virus replication; adsorption; mucoproteins; bioassay; immunology..antibodies; virus capsid; virus inhibitors; binding; reaction sites; cell adhesion; viruses..Simian myxoviruses

AI-05612 TOKUMARU, TADASU, Children's Hosp., Philadelphia, Pa.
viruses..herpes viruses; host--virus; hypersensitivity; reaction sites

AI-05628 MICHELAKIS, HANNELORE H., Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
infant animals; viruses..Coxsackie; interferons; bioassay; host--virus; virus diseases; immunology..antibodies; immunology

AI-05629 MERIGAN, THOMAS C., Sch. Med., Stanford Univ., Palo Alto, Cal.
interferons; virus inhibitors; chemical structure--biological activity; cell; amino acid; cell--free systems; deoxyribonucleic acid; ribonucleic acid; reaction sites

AI-05660 BENEDICT, ALBERT A., Univ. Hawaii, Honolulu, Hawaii
ornithosis; immunity; turkeys; immunology..antibodies; complement-fixation tests; column chromatography; starch electrophoresis; density gradient ultracentrifugation; bioassay

AI-05699 HOWE, HOWARD A., Maryland State Dept. Health, Baltimore, Md.
blood..serum; diagnostic tests; halogenated hydrocarbons; immunity; immunology..antibodies; latent virus diseases; neutralization tests; poliomyelitis; primates..chimpanzees; viruses..poliomyelitis virus

AI-05708 GODMAN, GABRIEL C., Col. Phys., Surg., Columbia Univ., New York, N.Y.
viruses..adenoviruses; viruses..ECHO viruses; deoxyribonucleic acid replication; host--virus; genetics..aneuploidy; cell differentiation; ribonucleic acid; deoxyribonucleic acid; reaction sites; tritium; cell culture; cytopathogenic effect, viral

AI-05713 LIU, CHIEN, Sch. Med., Univ. Kansas, Kansas City, Kans.
immunofluorescence; infectious diseases; bacteria.. Streptococcus Group A beta hemolytic; blood..serum; rheumatic fever; immunology; viruses..parainfluenza viruses; viruses..respiratory syncytial viruses; viruses.. varicella virus; diagnostic tests; bioasy technique; skin

AI-05721 LERNER, A. MARTIN, Col. Med., Wayne State Univ., Detroit, Mich.
cell components..polysomes; chemical structure--biological activity; host-virus; L-cells; molecular shape; proteins; ribonucleic acid; viruses..reoviruses

AI-05722 FRANKEL, FRED R., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
chemical structure; deoxyribonucleic acid; deoxyribonucleic acid replication; fractionation; molecular rearrangement; nucleic acids inhibitors; radiolabeled phosphorus; stable isotope labeled nitrogen; viruses.. bacteriophage T2

AI-05725 BAERNSTEIN, HARRY D., Jr., Sch. Med., Loma Linda Univ., Los Angeles, Cal.
bacteria..Mycoplasma pneumoniae; viruses..respiratory viruses; immunology..antigens; seasonal variation; therapy evaluation; epidemiology; geographical sites.. California; children; hospitals patients; respiratory diseases; complement--fixation tests

AI-05731 GINSBERG, HAROLD S., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
cell-free systems; deoxyribonucleic acid; fractionation; molecular structure; polymerization; virus replication; viruses..adenoviruses

AI-05733 FERNHAM, ANN E., Harvard Med. Sch., Boston, Mass.
amino acid; cytopathogenic effect (viral); deoxyribonucleic acid; ferritin; HeLa cells; host-virus; ion exchange; L-cells; membrane permeability; mitomycin C; potassium; proteins; ribonucleic acid; viruses.. encephalomyocarditis virus; viruses..vaccinia virus

AI-05765 DARLINGTON, ROBERT W., St. Jude Hosp., Memphis, Tenn.
viruses..Equine rhinopneumonitis virus; L--cells; HeLa cells; host--virus; virus replication

AI-05769 CROWELL, RICHARD L., Hahnemann Med. Col., Philadelphia, Pa.
viruses..Coxsackie viruses; tissue culture; virus replication; host-virus; bioassay; radiation effects; hormones

AI-05770 ROBBINS, FREDERICK C., Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
bacteria; viruses..enteroviruses; gamma globulin; infant human; gastrointestinal system; pregnancy; vaccines.. measles vaccine; vaccines..Sabin vaccine; longitudinal study; viruses..Rubella virus; otitis media

AI-05801 STORZ, JOHANNES, Utah State Univ., Logan, Utah
epizootiology; host-parasite; immunology; pregnancy.. abortion; pregnancy..placental transfer; viruses.. Psittacosis-lymphogranuloma-venereum group viruses

AI-05855 SUSMAN, MILLARD, Col. Agr., Univ. Wisconsin, Madison, Wis.
aminoacridines; genetics..recombination; growth, microorganisms; microbial culture; population dynamics, microorganisms; virus inhibitors; viruses..bacteriophage

AI-05863 TRAUM, JACOB, Sch. Pub. Hlth., Univ. California, Berkeley, Cal.
information exchange; publications..catalogs; veterinary medicine; viruses

AI-05889 GROGAN, RAYMOND G., Univ. California, Davis, Cal.
viruses..plant viruses; disease transmission; chemical structure; nucleic acids; taxonomy

AI-05920 SCHLESINGER, R. WALTER, Sch. Med., Rutgers State Univ., New Brunswick, N.J.
viruses..arthropod-borne group B viruses; viruses..dengue virus; KB cells; ribonucleic acid; immunology; bioassay; hemagglutinins; cell culture; invertebrates; marine biology

AI-05929 SETO, JOSEPH T., Los Angeles State Col. Fdn., Los Angeles, Cal.
viruses..influenza viruses; carbohydrases..neuraminidase; cell culture; virulence, microorganisms

AI-05962 FLICK, JOHN A., Grad. Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
viruses..vaccinia virus; hypersensitivity..delayed hypersensitivity; host--virus; radiation effects; skin diseases; virus diseases

AI-05975 SHOPE, RICHARD E., Jr., Col. Vet. Med., Univ. Minnesota, St. Paul, Minn.
dysentery..viral dysentery; epizootiology; immunology.. antibody inhibitors; taxonomy; viruses, enteroviruses

AI-05995 RASMUSSEN, A.E., Jr., Sch. Med., Univ. California, Los Angeles, Cal.
emotional crisis; stress; virus diseases; interferon; immunology..antibodies; phagocytosis; host--virus

AI-06010 MOFFET, HUGH L., Children's Mem. Hosp., Chicago, Ill.
bacteria; diagnostic tests; diarrhea; feces; infants, human; infectious diseases; viruses

AI-06011 SCHLESINGER, R. WALTER, Sch. Med., St. Louis Univ., St. Louis, Mo.
viruses..oncogenic viruses; viruses..adenoviruses; latent virus diseases; arginine; adenoids; tonsils; carcinogenesis

AI-06015 BLOUGH, HERBERT A., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
carbohydrases..neuraminidase; host-virus; immunology..antigen-antibody reactions; lipoproteins; molecular structure; oxidases..lipoxidase; radiolabeled phosphorus; surface properties; virus capsid; viruses..influenza viruses; viruses Newcastle Disease Virus; vitamin A

AI-06022 MILLER, LOUISE J., Col. Agr., Univ. Rhode Island, Kingston, R.I.
latent virus diseases; viruses; disease transmission; immunology..antibodies; immunological tests; questionnaire

AI-06062 TODD, WILLIAM M., Sch. Med., Univ. Tennessee, Memphis, Tenn.
cancer; deoxyribonucleotides; enzymes; growth L-cells; radiolabeled carbon; radiolabeled phosphorus; reduction; ribose; scintillation counters; tritium; viruses..vaccinia virus

AI-06078 LOFTIN, HORACE, Fort Clayton, Panama, Canal Zone
birds; migratory, animals; geographical sites..Panama; viruses..arthropod--borne viruses (unspecified)

AI-06137 GILLESPIE, JAMES H., New York State Vet. Col., Cornell Univ., Ithaca, N.Y.
taxonomy; viruses; host--virus; immunology

AI-06145 PARKER, ROBERT F., Sch. Med., Western Reserve Univ., Cleveland, Ohio
viruses..vaccinia virus; tissue culture; cytopathogenic effect, viral; virus inhibitors; host--virus; cyclic functions; virus replication

AI-06157 NAHMIAS, ANDRE J., Sch. Med., Emory Univ., Atlanta, Ga.
blood cells..leukocytes; blood cells..lymphocytes; virus replication; viruses..Herpes simplex virus; genetics..chromosomes; immunological tests; diagnostic tests; host--virus; bioassay

AI-06200 McAUSLAN, B.R., Princeton Univ., Princeton, N.J.
viruses..pox viruses; viruses..influenza viruses; viruses.. herpes simplex virus; tissue culture; phosphotransferases ..ATP : thymidine 5'--phosphotransferase; polymerases; genetics; carbohydrases..neuraminidase; actinomycin; ribonucleic acid; host--virus; nucleases..deoxyribonuclease

AI-06227 CLARK, H. FRED, Children's Hosp. Buffalo, N.Y.
viruses; virus diseases; genetic strains; host-virus; growth, microorganisms; taxonomy; serology; cataract

AI-06246 STEVENS, JACK G., Sch. Med., Univ. California, Los Angeles, Cal.
viruses..Herpes viruses; viruses..infectious bovine rhinotracheitis virus; classification; virus replication; virus inhibitors; host--virus; immunology..antibodies; 5--bromo--2'--deoxyuridine; deoxyribonucleic acid; nucleosides (tides) base analogs; proteins

AI-06263 WENNER, HERBERT A., Univ. Kansas Sch. Med., Kansas City, Kan.
research programs; host--virus; HeLa cells; kidney cells; viruses..pox viruses; viruses..rubella virus; deoxyribonucleic acid; ribonucleic acid; virus replication; proteins; viruses..reoviruses; teratogenic agents; immunological tests; epidemiology; children; primates..monkeys

AI-06264 YOUNGNER, JULIUS S., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.
interferon; virus diseases; virus inhibitors; cell culture; chemical structure--biological activity; reaction sites; nucleic acids; host--virus; bacteria..Brucella

AI-06270 CRAMBLETT, HENRY G., Children's Hosp., Columbus, Ohio
longitudinal study; infectious diseases; children; viruses; bacteria; epidemiology; serology; immunity; medical records; vaccines..viral vaccines; diagnostic tests; geographical sites..North Carolina

AI-06279 HASELKORN, ROBERT, Univ. Chicago, Chicago, Ill.
viruses..plant viruses; algae..blue--green algae; host--virus; growth, microorganisms; chemical structure; proteins; nucleic acids; instrumentation--methodology

AI-06286 MARINE, WILLIAM M., Sch. Med., Emory Univ., Atlanta, Ga.
viruses..mumps virus; viruses..parainfluenza viruses; viruses..Newcastle deases virus; immunity..cross immunity; immunology..antigen--antibody reactions; genetic strains; immunology..anamnestic reaction; immunological tests

AI-06316 ENRIGHT, JOHN B., Sch. Vet. Med., Univ. California, Davis, Cal.
rickettsiales..Coxiella burnetii; ecology, microorganisms; host--parasite; disease transmission; population dynamics, microorganisms

AI-06334 WALKER, DUARD L., Univ. Wisconsin Med. Sch., Madison, Wis.
eye..conjunctiva; viruses..mumps virus; host--virus; tissue culture; virus replication; cytopathogenic effect, viral

AI-06336 KOZLOFF, LLOYD M., Univ. Colorado Med. Ctr., Denver, Colo.
research programs; viruses, bacteriophage T; deoxyribonucleic acid; virus replication; laboratory facilities; cell components; chemical structure; host--virus; proteins

AI-06388 GLASGOW, LOWELL A., Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
interferon; host--virus; blood cells..leukocytes; macrophages; reticuloendothelial system; immunology; viruses..vaccinia virus; viruses..Coxsackie viruses

AI-06389 DOWELL, CLIFTON E., Jr., Sch. Med., Tulane Univ., New Orleans, La.
viruses..bacteriophage phi chi 174; mutation; temperature; deoxyribonucleic acid; virus replication; genetics..genetic coding; chemical structure; genetics ..genome; bacteria..Escherichia coli

AI-06392 BLACK, LINDSAY M., Sch. Life Sci., Univ. Illinois, Urbana, Ill.
viruses..oncogenic viruses; viruses..plant viruses; tissue culture; chemical structure; ribonucleic acid; serology; disease transmission

(contd)

LISTING OF GENERAL RESEARCH AREAS

VIROLOGY AND RICKETTSIOLOGY (CONTD)

AI-06422 **WILCOX, WESLEY C., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.**
viruses..vaccinia virus; immunology..antigens; immunology..antigen--antibody reactions; immune sera; proteins; nucleoproteins; radiolabeled; chemical structure--biological activity

AI-06450 **McLAREN, LEROY C., Sch. Med., Univ. New Mexico, Albuquerque, N. Mex.**
viruses..enteroviruses; host--virus; immunity; cell components..cell membrane; ribonucleic acid; viruses..poliomyelitis virus; interferons

AI-06481 **CRAIGHEAD, JOHN E., Harvard Med. Sch., Boston, Mass.**
viruses..encephalomyocarditis virus; host--virus; genetic strains; endocrine glands; interferon; virus replication; gastrointestinal system; pancreas; heart; brain; cytopathogenic effect, viral

AI-06491 **KOSUGE, TSUNE, Col. Agr., Univ. California, Davis, Cal.**
plants diseases; hypersensitivity; immunity; host--virus; virus inhibitors; viruses..tobacco mosaic virus; tobacco; genetics..genome; phenols; phenol oxidases

AI-06493 **BODE, VERNON C., Sch. Med., Univ. Maryland, Baltimore, Md.**
viruses..bacteriophage lambda; deoxyribonucleic acid; chemical structure--biological activity; host--virus; bacteria..Escherichia coli K12; viruses..prophage; genetics..genes; genetics..chromosome replication

AI-06494 **JOHNSTON, PAUL B., Sch. Med., Univ. Louisville, Louisville, Ky.**
viruses..simian viruses; kidney; primates..monkeys; genetic strains; neutralization tests; latent virus diseases

AI-06524 **MARVIN, DONALD A., Grad. Sch., Yale Univ., New Haven, Conn.**
viruses..bacteriophage fd; chemical structure--biological activity; ionic strength; ions..cation; hydrogen--ion concentration; temperature; instrumentation--methodology; deoxyribonucleic acid

AI-06549 **HAYWOOD, ANNE M., Northwestern Univ. Med. Sch., Chicago, Ill.**
viruses..bacteriophage MS2; bacteria..Escherichia coli; virus replication; proteins; chemical structure--biological activity; enzymes; host--virus; ribonucleic acid; antibiotics..actinomycin D

AI-06550 **KELLER, ROBERT, Michael Reese Hosp., Med. Cr., Chicago, Ill.**
immunology..antibodies; viruses..Poliomyelitis virus; functional groups; binding

AI-06606 **SCHOENHOLZ, WALTER K., Col. Vet. Med., Univ. Illinois, Urbana, Ill.**
bedsonia..psittacosis virus; bedsonia..lymphogranuloma venereum virus; immunology..antibodies; latent virus diseases; reticuloendothelial system; immunological tests

AI-06626 **SEMANCIK, JOSEPH S., Col. Agr., Univ. California, Riverside, Cal.**
viruses..bean pod mottle virus; virulence, microorganisms; ribonucleic acid; chemical structure--biological activity; virus capsid

AI-06632 **SCHULTZ, IRWIN, Sch. Med., Washington Univ., St. Louis, Mo.**
viruses..enteroviruses; blood; age; sex difference; immunology..antibodies; diagnostic tests; kidney function

AI-06667 **HALPEREN, SIDNEY, Sch. Med., Tulane Univ., New Orleans, La.**
viruses..ECHO viruses; ribonucleic acid; proteins; virus replication; virus capsid; immunology..antigens; cell components..polysomes; chemical structure--biological activity; virus inhibitors; kidney cells; primates..monkeys; host--virus; cell culture

AI-06672 **NOLL, HANS, Northwestern Univ., Evanston, Ill.**
viruses..influenza viruses; virus replication; carbohydrases..neuraminidase; enzyme inhibitors; enzyme substrate complex; host--virus; cell--free systems; proteins; cell components..ribosomes

AI-06691 **DAVIS, JAMES E., Oakland Univ., Rochester, Mich.**
ribonucleic acid; viruses..bacteriophage MS2; genetics..complementation; proteins

AI-06735 **PFAU, CHARLES J., Col. Arts, Sci., Univ. Massachusetts, Amherst, Mass.**
viruses..LCM virus; chemical structure; virus replication; cytopathogenic effect, viral; nucleic acids; host--virus

AI-06739 **FEARY, THOMAS W., Univ. Alabama Med. Cr., Birmingham, Ala.**
host--virus; virus replication; genetics..genome; ribonucleic acid; viruses..bacteriophage; viruses..bacteriophage MS2; bacteria..Pseudomonas aeruginosa; bacteria..Escherichia coli K12; sex difference; virus inhibitors; growth, microorganisms; calcium

AI-07003 **SPIZIZEN, JOHN, Scripps Clinic, Res. Fdn., La Jolla, Cal.**
viruses..bacteriophage; deoxyribonucleic acid; genetics; virus replication; bacteria..Bacillus subtilis; enzymes

AI-07019 **YORK, CHARLES J., Inst. Comparative Biology, San Diego, Cal.**
viruses; classification

AI-07035 **KRAFT, LISBETH M., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.**
viruses..dysentery virus; diarrhea; infant animals; death

AM-07496 **RANDALL, CHARLES C., Sch. Med., Univ. Mississippi, Jackson, Miss.**
electron microscopy; laboratory facilities; viruses..fowl pox virus; viruses..equine rhinopneumonitis virus; HeLa cells; epithelium; I cells

AM-08706 **TISDALE, WILLIAM A., Dartmouth Med. Sch., Hanover, N.H.**
viruses..mouse hepatitis virus; viruses..mouse K virus; host--virus; latent virus diseases; reticuloendothelial system; endotoxins; infant animals; viruses..reoviruses 3

CA-00918 **GREENE, HARRY S.N., Sch. Med., Yale Univ., New Haven, Conn.**
metastasis; blood vessels; cell migration; stroma; lymphoma; Shope papilloma; carcinogenesis; host-neoplasm

CA-01116 **BREEDIS, CHARLES, Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
neoplastic growth; viruses..Shope papilloma virus; fractionation; cesium chloride; phenols; alkalies

CA-01251 **BANG, FREDERICK B., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.**
viruses..Rous sarcoma virus; mammary tumor agents; virus-like particles; electron microscopy; epizootiology; pregnancy; cell types; carcinogenesis; tissue culture

CA-01751 **RUSSELL, WILLIAM O., M.D. Anderson Hosp., Univ. Texas, Houston, Tex.**
eye neoplasms; immunological tests; inclusion bodies; nucleases; proteases; squamous cell carcinoma; viruses..oncogenic viruses

CA-02062 **FRIEND, CHARLOTTE, Sloan-Kettering Inst. Cancer Res., New York, N.Y.**
neoplasms; viruses..oncogenic viruses; viruses..leukemia viruses; immunology; electron microscopy; viruses..polyoma virus; deoxyribonucleic acid

CA-02245 **WILLIAMS, ROBLEY C., Univ. California, Berkeley, Cal.**
viruses; host-virus; cytology; immunofluorescence; ferritin labeled antibody technique; electron microscopy; immunology..antigens; molecular structure; molecular weight; viruses..tobacco mosaic virus; plants

CA-02668 **EVANS, CHARLES A., Univ. Washington, Seattle, Wash.**
Shope papilloma; carcinoma; carcinogenesis; vaccines; immunity; deoxyribonucleic acid

CA-02813 **WAGNER, ROBERT R., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
interferons; viruses; virus replication; infant animals; immunity; viruses..Herpes simplex virus; virulence, microorganisms; host--virus; virus diseases

CA-03679 **DMOCHOWSKI, LEON, Sch. Med., Baylor Univ., Houston, Texas**
culture media; hormones; hydrogen-ion concentration; immune sera; immunology..antibodies; mammary gland; mammary tumor agent; milk; temperature; viruses..oncogenic viruses; x-rays

CA-03845 **NICHOLS, WARREN W., South Jersey Med. Res. Fdn., Camden, N.J.**
leukemia; neoplasms; viruses; genetics..chromosomes; cytology; deoxyribonucleic acid; primates..monkeys; histocompatibility; transplantation..heterotransplantation; children; x--rays; radiation effects; cortisone; neoplasms transplantation

CA-03880 **BALUDA, MARCEL A., City Hope Med. Cr., Duarte, Cal.**
viruses..avian leukosis virus; carcinogenesis; virus replication; bioassay; host-virus; host-neoplasm; cell differentiation

CA-03972 **BROWN, RUSSELL W., Tuskegee Institute, Tuskegee, Ala.**
antisepsis; bacteria..Mycoplasma; cell culture collections; freezing

CA-04012 **PIERCE, MILA I., Sch. Med., Univ. Chicago, Chicago, Ill.**
carcinogenesis; leukemia..acute leukemia; cell--free systems; brain; spleen; liver; lymph nodes; bone marrow

CA-04140 **DMOCHOWSKI, LEON, Univ. Texas, M.D. Anderson Hosp., Houston, Texas**
chloroma; cytology; leukemia; leukemia, lymphocytic leukemia; leukosis of fowl; lymphatic tissue; viruses, Gross leukemia virus

CA-04204 **ROIZMAN, BERNARD, Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
viruses..oncogenic viruses; viruses..polyoma virus; virus replication; host--virus; transformation; carcinogenesis; immunology; viruses..herpes simple virus; latent virus diseases

CA-04294 **BOZARTH, ROBERT, Boyce Thompson Inst. Plant Res., Yonkers, N.Y.**
Rumex; clover, radiolabeled phosphorus; plants neoplasms; phosphates; organophosphates; radiolabeled carbon; sugar; viruses..Rumex virus; viruses..oncogenic viruses; nucleic acids; carcinogenesis; peas

CA-04313 **GROUPE, VINCENT, Grad. Sch., Rutgers State Univ., New Brunswick, N.J.**
carcinogenesis; viruses..Rous sarcoma virus; viruses..leukemia viruses; host-virus; cytopathogenic effect, viral

CA-04534 **KOPROWSKI, HILARY, Wistar Inst., Philadelphia, Pa.**
immunology..antigens; transplantation rejection; skin transplantation; L--5178Y cells; viruses..polyoma virus; viruses..Coxsackie viruses; deoxyribonucleic acid; enzyme feedback; cell division..mitosis; vitamin B12 coenzymes; ribose; deoxyribose; cells; genetics..chromosomes; transformation; viruses..SV40 virus; viruses..adenoviruses; carcinogenesis; primates..monkeys; allergic encephalomyelitis; autosensitization;

macrophages; blood cells..lymphocytes; viruses.. oncogenic viruses; viruses..Rous sarcoma virus; benzopyrenes; bacteria..mycoplasma

CA-04555 NOYES, WILBUR F., Sloan-Kettering Inst. Cancer Res., New York, N.Y.
viruses..oncogenic viruses; immunological tests; viruses.. vaccinia virus; immunology..antigens; ferritin-labeled antibody technique

CA-04557 SABIN, ALBERT B., Children's Hosp. Res. Fdn., Cincinnati, Ohio
neoplasms; transformation; viruses..oncogenic viruses; transduction; immunology..antigens; carcinogenesis; transplantation rejection; genetics..genome; viruses.. SV40 virus; radiation effects; neoplasms transplantation; x--rays

CA-04568 HENLE, WERNER, Children's Hosp., Philadelphia, Pa.
viruses..oncogenic viruses; viruses..polyoma virus; viruses..myxoviruses; interferons; L--cells; host--virus; immunofluorescence; viruses..Rous sarcoma virus; Burkitt's malignant lymphoma

CA-04571 FRANCIS, THOMAS, Jr., Sch. Pub. Hlth., Univ. Michigan, Ann Arbor, Mich.
neoplasms; viruses..oncogenic viruses; immunology.. antigens; larynx neoplasms; papilloma; immunofluorescence; amnion; screening

CA-04572 BEARD, JOSEPH W., Sch. Med., Duke Univ., Durham, N.C.
viruses..avian leukosis virus; host-virus; blood cells.. myeloblasts; radioautography; carcinogenesis; blood cells ..erythroblasts; ribonucleic acid

CA-04573 MOORE, DAN H., Rockefeller Inst., N.Y.C.
breast neoplasms; mammary tumor agents; virus inhibitors; radiation effects; carcinoma; virus-like particles; neoplasms; radiolabeled phosphorus

CA-04574 HAMMON, WILLIAM M., Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
viruses..oncogenic viruses; neoplasms; viruses..oncolytic viruses; genetics..chromosomes; viruses..adenoviruses; ribonucleic acid

CA-04588 MURRAY, MARGARET R., Col. Phys., Surg., Columbia Univ., New York, N.Y.
breast neoplasms; carcinoma; mammary tumor agents; tissue culture; mammary glands; hydrocortisone; estradiol; progesterone; prolactin; epithelium; insulin; virus inhibitors

CA-04600 MELNICK, JOSEPH L., Sch. Med., Baylor Univ., Houston, Tex.
leukemia; viruses..leukemia viruses; nucleic acids; children; viruses..papova viruses; primates; infant animals..newborn; viruses..adenoviruses; viruses..SV40 virus; viruses..cytomegaloviruses; viruses..herpes viruses; immunofluorescence; electron microscopy; virus replication; transformation; cells; neoplastic cells; immunology..antigens

CA-04603 SCHRAMM, GERHARD F., Max Planck Inst. for Virus Res., Tubingen, Germany
deoxyribonucleic acid; proteins; ribonucleic acid; tobacco; virus replication; viruses..tobacco mosaic virus

CA-04610 WALLBANK, ALFRED M., Sch. Vet. Med., Univ. Pennsylvania, Phila., Pa.
sarcoma 13; viruses..avian leukosis virus; viruses..Rous sarcoma virus

CA-04625 SCHWERDT, CARLTON E., Sch. Med., Stanford Univ., Stanford, Cal.
viruses..fibroma viruses; viruses..myxoma viruses; bioassay

CA-04627 OLSON, CARL, Grad. Sch., Univ. Wisconsin, Madison, Wis.
urinary bladder neoplasms; carcinogenesis; viruses.. bovine papilloma virus; metabolites; vaccination; carcinogens; tissue culture; cattle

CA-04670 LITTLEFIELD, JOHN W., Massachusetts Gen. Hosp., Boston, Mass.
carcinogenesis; cell culture; cell division; deoxyribonucleic acid; mutagens; neoplastic growth; purine analogs; pyrimidine analogs; transformation; viruses..oncogenic viruses

CA-04692 LEVINE, ALVIN S., Sch. Med., Indiana Univ., Indianapolis, Ind.
carcinogenesis; viruses..oncogenic viruses; viruses.. Rauscher leukemia virus; viruses..Rous sarcoma virus; glucose; Rous sarcoma; amino acids; proteins; immunology

CA-04747 KLEIN, GEORGE, Karolinska Inst. Med. Sch., Stockholm, Sweden
immunology..antigens; viruses..polyoma virus; neoplasms; transplantation rejection; lymphoma; viruses..Gross leukemia virus; viruses..oncogenic viruses; neoplasms transplantation

CA-04774 RUBIN, HARRY, Grad. Sch., Univ. California, Berkeley, Cal.
carcinogenesis; cell; host-virus; immunology; immunology.. antibodies; viruses..Rous sarcoma virus; viruses..Rous sarcoma virus/RIF virus

CA-04779 RASMUSSEN, A.F., Jr., Sch. Med., Univ. California, Los Angeles, Cal.
disease transmission; genetic strains; immunity; infants, animals..newborn; neoplasms; primates..marmoset; radiation effects; serology; viruses..oncogenic viruses; viruses..polyoma virus

CA-04865 McALLISTER, ROBERT M., Childrens Hosp., Los Angeles, Cal.
neoplasms; viruses..oncogenic viruses; children; screening; viruses..adenoviruses

CA-04888 WERDER, ALVAR A., Sch. Med., Univ. Kansas, Kansas City, Kans.
viruses..mouse hepatitis virus; genetic strains; carcinogenesis; liver neoplasms; dietary deficiency; hepatotoxins; germ-free; carcinogens

CA-04908 SIGEL, M. MICHAEL, Variety Children's Res. Fdn., Miami, Fla.
transplantation..heterotransplantation; viruses..oncogenic viruses; neoplasms transplantation; transformation; viruses..Rous sarcoma virus

CA-04965 EATON, MONROE D., Sch. Med., Harvard Univ., Boston, Mass.
viruses..SV 40 virus; viruses..Gross leukemia virus; viruses..polyoma virus; thymus neoplasms; viruses..Yaba virus; leukemia..lymphocytic leukemia; immunology..antibodies; immunofluorescence; genetic strains; host-virus; carcinogenesis; neoplasms transplantation; neoplasms; immune sera; bioassay; dichloromethotrexate; lymphoma

CA-05030 REYNIERS, JAMES A., Germfree Life Cr., Tampa, Fla.
animal facilities; germ-free; germ-free isolators; carcinogenesis; instrumentation; training; viruses..oncogenic viruses

CA-05176 ROGERS, STANFIELD, Univ. Tennessee Mem. Res. Cr., Knoxville, Tenn.
viruses..Shope papilloma virus; host--virus; carcinogenesis; enzymes; antimetabolites; antineoplastic agents; neoplasms; hormones

CA-05206 MORGAN, HERBERT R., Sch. Med., Dent., Univ. Rochester, Rochester, New York
cell; neoplasms; viruses..oncogenic viruses; viruses.. polyoma virus; viruses..Rous sarcoma virus

CA-05266 SACHS, LEO, Weizmann Inst. Sci., Rehovoth, Israel
carcinogenesis; cell; cytopathogenic effect (viral); host-virus; immunology..antigens; transformation; viruses.. oncogenic viruses; viruses..polyoma virus

CA-05387 LIPPINCOTT, JAMES A., Col. Lib. Arts, Northwestern Univ., Evanston, Ill.
neoplastic growth; nucleic acids; nucleoproteins; plants neoplasms; tissue culture

CA-05386 DeOME, K.B., Univ. California, Berkeley, Cal.
carcinogenesis; hyperplasia; breast neoplasms; viruses.. oncogenic viruses; genetics; hormones; age; carcinogens; radiation effects; x-rays

CA-05402 LOVE, ROBERT, Jefferson Med. Col., Philadelphia, Pa.
staining; HeLa cells; nucleic acids; cell division.. mitosis; viruses..influenza viruses; viruses..herpes simplex virus; antimetabolites; Ehrlich ascites carcinoma; nucleoproteins; cell components..cell nucleolus; viruses..Newcastle disease virus; antibiotics.. actinomycin; antibiotics..puromycin

CA-05438 MIROFF, GEORGE, Rockefeller Inst., New York, N.Y.
mammary tumor agents; ascites tumors

CA-05500 CUBA, ALBERTO, Sch. Vet. Med., Univ. San Marcos, Lima, Peru
cell-free systems; pulmonary adenomatosis, sheep; lung neoplasms; metastasis; altitude; disease transmission; diagnostic tests; sheep; transplantation..homotransplantation; transplantation..heterotransplantation; ecology, animal; geographical sites..Peru; neoplasms transplantation

CA-05544 POLLI, E.E., Milano Univ., Milan, Italy
deoxyribonucleic acid; neoplasms; molecular structure; leukemia; blood cells..leukocytes; viruses..polyoma virus; transformation; cell

CA-05562 THEILEN, GORDON H., Univ. California, Davis, Cal.
epizootiology; cattle; viruses..oncogenic viruses; lymphosarcoma

CA-05563 DAVIS, OLIVE S., Sch. Vet. Sci., Med., Purdue Univ., Lafayette, Ind.
lymphomatosis of fowl; disease transmission

CA-05619 RUBIN, HARRY, Grad. Sch., Univ. California, Berkeley, Cal.
viruses..avian leukosis virus; viruses..Rous sarcoma virus/RIF virus; chick embryo; leukosis of fowl; tissue culture; host--virus; disease transmission; immunology..antibodies; immunity; interferon

CA-05680 SVOBODA, DONALD J., Univ. Kansas Med. Cr., Kansas City, Kans.
cytology; electron microscopy; carcinogenesis; liver; liver neoplasms; hepatotoxins; virus--like particles; inclusion bodies; 3'--methyldiethylaminoazobenzene; diet; proteins; nasopharynx neoplasms; kwashiorkor; hepatoma

CA-05682 WALKER, DUARD L., Sch. Med., Univ. Wisconsin, Madison, Wis.
cell division; cytology; cytolysis; immune sera; immunology..antigens; virus replication; viruses..fibroma viruses; viruses..myxoma viruses

CA-05742 CRISPENS, CHARLES G., Jr., Sch. Med., Univ. Maryland, Baltimore, Md.
oxidoreductases..lactate dehydrogenases; carcinogenesis; methylcholanthrene; neoplasms; nucleic acids; immunology..antibodies

CA-05790 WALKER, ROLAND, Sch. Sci., Rensselaer Poly. Inst., Troy N.Y. cell components..cell capsule; cell components..cell nucleus; cell components..cytoplasm; deoxyribonucleic acid; inclusion bodies; lymphocystis warts; neoplasms; virus warts; viruses..lymphocystis virus; viruses.. oncogenic viruses

CA-05791 TAYLOR, GRANT, Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
disease transmission; leukemia; viruses..oncogenic viruses; viruses..polyoma virus; viruses..Moloney leukemia virus; viruses..Gross leukemia virus; maternal-fetal; pregnancy..placental transfer; ovum; milk

(cont'd)

VIROLOGY AND RICKETTSIOLOGY (CONTD)

CA-05816 ADAMS, JOHN M., Sch. Med., Univ. California, Los Angeles, Cal.
carcinogenesis; cell division; infectious diseases; lung neoplasms; metaplasia; viruses..oncogenic viruses; viruses..respiratory viruses

CA-05840 RIKER, ALBERT J., Grad. Sch., Univ. Wisconsin, Madison, Wis.
cell culture; plants; infectious diseases; aging; immunity; single cell analysis; genetics; cell division; viruses..tobacco mosaic virus; crown gall

CA-05883 FOGH, JORGEN E., Sloan-Kettering Inst. Cancer Res., New York, N.Y.
carcinogenesis..cell components..cell membrane; cell culture; cell-free systems; neoplastic cells; nucleic acids; transformation; transplantation; virus-like particles; viruses..oncogenic viruses

CA-05884 SIEGEL, BENJAMIN V., Sch. Med., Univ. Oregon, Portland, Ore.
electron microscopy; lymph nodes; lymphoma; neoplastic cells; viruses..oncogenic viruses; virus-like particles

CA-05893 MARTIN, CHRISTOPHER M., Seton Hall Col. Med., Jersey City, N.J.
viruses..oncogenic viruses; carcinogens; carcinogenesis; deoxyribonucleic acid; deoxyribonucleic acid replication; trace elements; virus replication; transferrin; viruses.. bacteriophage; mutagens; genetics

CA-05894 WONG, TING-WA, Sch. Med., Univ. Chicago, Chicago, Ill.
carcinogens; viruses..oncogenic viruses; carcinogenesis; viruses..polyoma virus; 3--methylcholanthrene; infant animals..newborn; intestinal absorption; 9,10 dimethyl--1,2 benzanthracene; chemical structure--biological activity

CA-05921 LANE, JOSEPH, Univ. Mississippi Med. Cr., Jackson, Miss.
glucose; L--cells; viruses..vaccinia virus; culture media; enzymes; Embden--Meverhoff pathway; Krebs cycle

CA-06008 RAFFERTY, KEEN A., Jr., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
carcinogenesis; Lucke renal adenocarcinoma; kidney neoplasms; disease transmission; kidney hyperplasia

CA-06010 KILHAM, LAURENCE, Dartmouth Med. Sch., Hanover, N.H.
age; disease transmission; germ-free; infants (animal).. newborn; latent virus diseases; mongolism; neoplasms; oral-facial anomalies; viruses..oncogenic viruses; viruses ..rat virus (RV)

CA-06202 HAGUENAU, FRANCOISE, Col. France, Paris, France
leukemia; viruses..oncogenic viruses; electron microscopy; hematopoietic tissues; radioautography; viruses..Rous sarcoma virus

CA-06248 WINTER, JOSEPH W., Beth Israel Hosp., N.Y.C.
culture media; growth inhibitors; mutations; tetrazolium salts; viruses..poliomyelitis virus

CA-06384 SEVOIAN, MARTIN, Univ. Massachusetts, Amherst, Mass.
disease transmission; epizootiology; genetics; immunology..antibodies; lymphomatosis of fowl.. neurolymphomatosis of fowl; microbial culture; serology; viruses..avian leukosis virus; viruses.. oncogenic viruses

CA-06407 EPSTEIN, MICHAEL A., Middlesex Hosp. Med. Sch., London, England
carcinogenesis; viruses..oncogenic viruses; virus--like particles; Burkitt's malignant lymphoma; lymphoma; ecology, microorganisms; immunology; tissue culture

CA-06429 RICKARD, CHARLES G., Col. Vet., Cornell Univ., Ithaca, N.Y.
neoplasms; viruses..oncogenic viruses; mast cells neoplasms; sarcoma; electron microscopy

CA-06483 LITTLE, CLARENCE C., R.B. Jackson Lab., Bar Harbor, Me.
mammary tumor agents; carcinogenesis; genetic strains; genetics..hybrids; carcinogens; viruses..oncogenic viruses; hormones

CA-06526 MILLIAN, STEPHEN J., New York City Dept. Hlth., New York, N.Y.
leukemia; viruses..leukemia viruses; blood proteins.. serum proteins; immunology; viruses; bacteria

CA-06615 NELSON, JOHN B., Rockefeller Inst., New York, N.Y.
bacteria..Mycoplasma; disease transmission; viruses.. mouse hepatitis virus; viruses..reoviruses 3; epizootiology; laboratory animals; age; genetic strains; ascites tumors; virulence, microorganisms; viruses.. oncolytic viruses; virus diseases; viruses..respiratory viruses; germ free; protozoa..Microsporidia

CA-06639 MURPHY, WILLIAM H., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
deoxyribonucleic acid; immunity; leukemia..mouse leukemia Ib; neoplastic cells; ribonucleic acid; viruses.. leukemia viruses

CA-06654 MURAKAMI, WILLIAM T., Grad. Sch., Brandeis Univ., Waltham, Mass.
carcinogenesis; cytolysis; immunology..antigen; nucleic acids; proteins; radiolabeled; viruses..polyoma virus

CA-06655 VOGT, PETER K., Sch. Med., Univ. Colorado, Denver, Colo.
age; carcinogenesis; cell adhesion; cell components..cell membrane; fibroblasts; hematopoiesis..leukopoiesis; host-virus; immunology..antigen-antibody reactions; immunology..antigens; viruses..avian leukosis virus; viruses..Rous sarcoma virus

CA-06656 KIT, SAUL, Col. Med., Baylor Univ., Houston, Tex.
neoplastic cells; deoxyribonucleic acid; viruses.. oncogenic viruses; polymerases; messenger ribonucleic acid; viruses..SV 40 virus; viruses..Shope papilloma virus; viruses..polyoma virus; tritium; stable isotope labeled; radiolabeled phosphorus; carcinogenesis; phosphotransferases..ATP: thymidine 5'--phosphotransferases; oxidoreductases..tetrahydrofolate dehydrogenase

CA-06709 CALNEK, BRUCE W., Vet. Col., Cornell Univ., Ithaca, N.Y.
birds; diagnostic tests; epizootiology; fibroblasts; immunological tests; lymphomatosis of fowl; viruses.. avian leukosis virus; viruses..Rous sarcoma virus

CA-06711 RICH, MARVIN A., Albert Einstein Med. Cr., Philadelphia, Pa.
viruses..oncogenic viruses; neoplasms; leukemia..mouse leukemia, Friend; virus--like particles; nucleic acids; disease transmission; viruses..Rous sarcoma virus; viruses..Friend virus; thymus; carcinogens

CA-06725 STANSLY, PHILIP G., Detroit Inst. Cancer Res., Detroit, Mich.
viruses..oncogenic viruses; reticulum cell sarcoma; carcinogenesis; cell--free systems; tissue culture; neoplasms transplantation; host--virus; serology; chemical structure; paralysis

CA-06811 TAYLOR, GRANT, Univ. Texas, M.D. Anderson Hosp., Tumor Inst., Houston, Texas
children; bone marrow; tissue culture; electron microscopy; leukemia..acute leukemia; lymphoma; fibroblasts; cytopathogenic effect, viral; inclusion bodies

CA-06813 MURAKAMI, SAKAE, Sch. Med., Okayama Univ., Okayama, Japan
carcinogenesis; viruses..oncogenic viruses; viruses.. adenoviruses; host-virus; epidemiology; immunology.. antibodies; infants, human; children; tissue culture; infants, animals..newborn

CA-06827 DUTCHER, RAY M., South Jersey Med. Res. Fdn., Camden, N.J.
carcinogenesis; disease transmission; lymphosarcoma; veterinary medicine; virus-like particles; tissue culture; infant animals..newborn; immunology..antigens; genetic strains

CA-06846 CARNES, WILLIAM H., Col. Med., Univ. Utah, Salt Lake City, Utah
bone marrow; cell-free systems; electron microscopy; fractionation; lymphatic tissue; radiation effects.. whole body radiation; thymus; thymus neoplasms; viruses..oncogenic viruses; urethan

CA-06851 SOBEY, W.R., Sidney Univ., NSW, Australia
carbohydrases..hyaluronidase; genetics; host-virus; immune sera; immunology..antigen-antibody reactions; immunology..antigens; virus replication; viruses.. myxoma viruses

CA-06941 TRENTIN, JOHN J., Col. Med., Baylor Univ., Houston, Tex.
viruses..oncogenic viruses; cancer; viruses..orphan viruses; viruses..polyoma virus; viruses..adenoviruses; immunology; germ--free; infant animals..newborn; age; radiation effects

CA-06985 WERDER, ALVAR A., Sch. Med., Univ. Kansas, Kansas City, Kans.
electron microscopy; viruses..oncogenic viruses; leukemia; primates..monkeys; kidney cells; blood cells.. leukocytes; blood cells..lymphocytes; viruses..ECHO viruses; viruses..Coxsackie viruses; inclusion bodies; viruses..parainfluenza viruses; viruses..reovirus; immunology..antigens; cell culture; hydrocortisone

CA-06999 BEAUDREAU, GEORGE S., Duke Univ. Med. Cr., Durham, N.C.
carcinogenesis; viruses..avian leukosis virus; blood cells ..myeloblasts; cell differentiation; transformation; ribonucleic acid; synthetases; proteins; cell components.. cytoplasm; cell-free systems

CA-07048 LUNGER, PHILIP D., Rockefeller Inst., New York, N.Y.
viruses..oncogenic viruses; Lucke renal adenocarcinoma; bioassay; temperature

CA-07054 PINKEL, DONALD, St. Jude Hosp., Memphis, Tenn.
bioassay; organ culture; spleen; viruses..Moloney leukemia virus; cytopathogenic effects, viral; immunology..antibodies

CA-07055 GRANOFF, ALLAN, St. Jude Hosp., Memphis, Tenn.
viruses..oncogenic viruses; tissue culture; kidney; Lucke renal adenocarcinoma; transformation; host-virus; bioassay; immunology..antibodies

CA-07062 SELSKY, MELVYN I., Brooklyn Col., Brooklyn, N.Y.
plants neoplasms; viruses..wound--tumor virus; Rumex; clover; plants..roots; tissue culture; carbohydrases.. amylases; phosphatases; phosphorus

CA-07092 RIBACCHI, RODOLFO, Med. Sch., Univ. Perugia, Perugia, Italy
immunity..cross immunity; immunology..antigens; infants (animals)..newborn; viruses..Friend virus; viruses..Gross leukemia virus; viruses..leukemia viruses; viruses..Moloney leukemia virus; viruses.. Rauscher leukemia virus

CA-07139 CONSIGLI, RICHARD A., Kansas State Univ., Manhattan, Kans.
viruses..polyoma virus; transformation; enzymes inhibitors; p--fluorophenylalanine; 5--fluoro--2'--deoxyuridine; 6--azauridine; deoxyribonucleic acid; ribonucleic acid; messenger ribonucleic acid; deoxyribonucleic acid replication; radiolabeled phosphorus

CA-07239 HARE, JOHN D., Univ. Rochester Med. Cr., Rochester, N.Y.
viruses..polyoma virus; cell culture; host--virus; L--cells; carcinogenesis; genetics..recombination; immunology; interferons; transplantation immunology; neoplasms transplantation

CA-07247 RAVDIN, ROBERT G., I.S. Ravdin Inst., Philadelphia, Pa.
carcinogenesis; culture media; genetics..chromosome translocations; hospitals patients; host-neoplasm; immunology..antigen-antibody reactions; implants; tissue culture; transformation; viruses..adenoviruses; viruses..SV40 virus

CA-07271 POLLARD, MORRIS, Lobund Lab., Univ. Notre Dame, Notre Dame, Ind.
carcinogenesis; germ-free; viruses..oncogenic viruses; mammary tumor agents; methylcholanthrene; 9,10-dimethyl-1,2-benzanthracene; breast neoplasms; leukemia; radiation effects..whole body radiation; hormones; thymectomy; carcinogens

CA-07291 MURPHY, WILLIAM H., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
viruses..leukemia viruses; leukemia; bone marrow; children; bioassay; serology; immunology; taxonomy

CA-07300 SANTILLI, VINCENT, State Univ. New York, Buffalo, N.Y.
beans; mercury; mutations; nucleases..ribonucleases; ribonucleic acid; tobacco; viruses..tobacco mosaic virus

CA-07391 ROBERTS, WALDEN K., Grad. Sch., Univ. California, Berkeley, Cal.
Ehrlich ascites carcinoma; infectious ribonucleic acid; phosphotransferases..RNA nucleotidyltransferase; radiolabeled phosphorus; ribonucleic acid; viruses

CA-07442 PLESCIA, OTTO J., Grad. Sch., Rutgers State Univ., New Brunswick, N.J.
mammary tumor agents; virus--like particles; immune sera; immunology..antigen--antibody reactions; precipitins; precipitin technique; gel diffusion technique; ferritin labeled antibody technique; complement--fixation tests; carcinogenesis; breast neoplasms; tissue culture

CA-07453 MARAMOROSCH, KARL, Boyce Thompson Inst. Res., Inc., Yonkers, N.Y.
carcinogenesis; breast neoplasms; viruses..plant viruses; viruses..oncogenic viruses; viruses..insects viruses; viruses..reo-viruses; infants, animals; host-virus; virus replication; tritium; cell division, mitotic spindle; cell differentiation

CA-07515 MENDELSON, CHARLES G., Henry Ford Hosp., Detroit, Mich.
viruses..warts viruses; virus warts; host--virus; viricides; 5--iodo--2'--deoxyuridine; p--fluorophenylalanine; puromycin; dihydrotriazines; pyrimidine nucleosides; 5--fluorouracil; immunology..antigen--antibody reactions; serology

CA-07517 KENZY, SAM G., Col. Vet. Med., Washington State Univ., Pullman, Wash.
lymphomatosis of fowl..neurolymphomatosis of fowl; viruses..Rous sarcoma virus; disease transmission; genetic strains; immunity; embryology

CA-07702 CHANG, GILBERT C.H., Sch. Med., Univ. Miami, Coral Gables, Fla.
viruses..oncogenic viruses; viruses..Friend virus; viruses..Rous sarcoma virus; viruses..polyoma virus; neoplasms; transplantation; carcinogenesis; genetics..chromosomes; cytology; leukemia

CA-07721 POLLARD, MORRIS, Grad. Sch., Univ. Notre Dame, Notre Dame, Ind.
viruses..leukemia viruses; germ-free; virus replication; disease transmission; carcinogens; carcinogenesis; radiation effects; cytopathogenic effect, viral

CA-07729 LENNETTE, EDWIN H., Dept. Pub. Hlth., Berkeley, Cal.
viruses..adenoviruses; carcinogenesis; host-virus; auxotrophs; genetics; epidemiology; viruses..oncogenic viruses

CA-07730 LENNETTE, EDWIN H., California Dept. Pub. Hlth., Berkeley, Cal.
carcinogenesis; lymphogranuloma venereum; histiocytoma; reticulum cell sarcoma; cell-free systems; viruses..oncogenic viruses; transplantation immunology; interferons; hemagglutinins; transformation; deoxyribonucleic acid; ribonucleic acid

CA-07732 LENNETTE, EDWIN H., Dept. Pub. Hlth., State of California, Berkeley, Cal.
host--neoplasm; immunology; carcinogenesis; viruses..Moloney leukemia virus; leukemia..mouse leukemia, Moloney; ribonucleic acid; blood proteins..serum proteins; blood cells..leukocytes; tritium; radiolabeled carbon

CA-07745 GRACE, JAMES T., Roswell Park Mem. Inst., Buffalo, N.Y.
research programs; carcinogenesis; viruses..oncogenic viruses; viruses..SV40 virus; viruses..adenoviruses; viruses..Yaba virus; viruses..myxoviruses; bacteria..mycoplasma; neoplasms; lymphoma; leukemia; virus replication; interferons; immunology; germ--free; tritium; radiolabeled carbon; nucleic acids

CA-07787 FISHER, HAROLD W., Sch. Arts, Sci., Univ. Rhode Island, Kingston, R.I.
soluble ribonucleic acid; cell components..ribosomes; cell components..cell nucleus; viruses..polyoma virus; kidney cells; nucleases..deoxyribonuclease; deoxyribonucleic acid

CA-07826 TOOLAN, HELENE W., Putnam Mem. Hosp. Inst. for Med. Res., Bennington, Vt.
host-virus; viruses..H-1 virus; viruses..H-3 virus; viruses..rats virus, RV; pregnancy..placenta; embryo; infants, animals..newborn; immunology..antibodies; virus replication; cell-free systems; growth; aging; cells; neoplasms

CA-07861 DARNELL, JAMES E., JR., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
research programs; cytology; ribonucleic acid; deoxyribonucleic acid; messenger ribonucleic acid; viruses..poliomyelitis virus; HeLa cells; cell components..ribosomes; cell components..cytoplasm; tritium; tissue culture; fractionation

CA-07868 FIELDSTEEL, A. HOWARD, Stanford Research Inst., Menlo Park, Cal.
carcinogenesis; reticulum cell sarcoma; viruses..Friend virus; transformation; tissue culture; host--virus; immunology; genetics..genome

CA-07923 SINKOVICS, JOSEPH G., Univ. Texas M.D. Anderson Hosp. and Tumor Inst., Houston, Tex.
leukemia; viruses..leukemia viruses; viruses..Rauscher leukemia virus; immunology..antigen--antibody reactions; interferon; virus replication; bone marrow; spleen; thymus; transformation; serology

CA-07938 HETRICK, FRANK M., Univ. Maryland, College Park, Md.
viruses..rat virus, RV; viruses..polyoma virus; host--virus; virus replication; maternal--fetal; infant animals..newborn; stress; cortisone; hypothermia; age; virus inhibitors; carcinogenesis; deoxyribonucleic acid; ribonucleic acid

CA-07948 SHEEK, MARTHA R., Univ. Texas M. D. Anderson Hosp., Tumor Inst., Houston, Texas
polymerases; KB cells; viruses..adenoviruses; cell division..synchronous cell division; cell components..cell nucleus; cell components..cytoplasm; deoxyribonucleic acid

CA-07983 McNULTY, WILBUR P., Jr., Oregon Regional Primate Res. Cr., Beaverton, Ore.
deoxyribonucleic acid; virus replication; viruses..oncogenic viruses; viruses..SV40 virus; host--virus; transformation; conformations (chemistry); nucleosides(tides) bases; primates

CA-07998 YOHN, DAVID S., Roswell Park Mem. Inst., Buffalo, N.Y.
viruses..Yaba virus; virus replication; cell culture; host--virus; immunology..antigen--antibody reactions; primates..monkeys; species; infant animals..newborn; complement--fixation tests; histiocytoma; proteins; deoxyribonucleic acid

CA-07999 KOZINSKI, A.W., Wistar Inst., Philadelphia, Pa.
deoxyribonucleic acid replication; host--virus; genetics..chromosomes; viruses..bacteriophage T4; viruses..bacteriophage P22; viruses..polyoma virus; viruses..SV40 virus; instrumentation--methodology; electron microscopy; radioautography

CA-08087 TENNANT, JUDITH R., Sloan-Kettering Res. Inst., New York, N.Y.
immunology..antigens; host--virus; genetic strains; viruses..leukemia viruses; thymus transplantation; genetics..hybrids; carcinogenesis

CA-08111 MOSCOVICI, CARLO, Univ. Colorado Med. Cr., Denver, Colo.
viruses..avian leukosis virus; viruses..converting viruses; host--virus; neoplastic growth; tissue culture; transformation

CA-08120 HODES, M.E., Indiana Univ. Med. Cr., Indianapolis, Ind.
Shope papilloma; viruses..Shope papilloma virus; host--virus; virus replication; neoplastic growth; deoxyribonucleic acid; virus inhibitors; antineoplastic agents

CA-08161 PRIER, JAMES E., Sch. Med., Temple Univ., Philadelphia, Pa.
neoplasms; cytopathogenic effect (viral); viruses..oncogenic viruses; neoplastic cells; immunological tests; host--neoplasm

CA-08164 BERGS, VICTOR V., Stanford Res. Inst., Menlo Park, Cal.
viruses..oncogenic viruses; 7,12--dimethyl--1,2--benzanthracene; leukemia; breast neoplasms; tissue culture; cell--free systems; neoplasms transplantation

CA-08178 SORENSON, GEORGE D., Sch. Med., Washington Univ., St. Louis, Mo.
myeloma, bone marrow; tissue culture; virus--like particles; virus replication; deoxyribonucleic acid; proteins; myeloma globulins; nucleic acids inhibitors; enzymes

CA-08192 CROCKER, T. TIMOTHY, Univ. California Med. Cr., San Francisco, Cal.
viruses..picornaviruses; host--virus; histones; messenger ribonucleic acid; enzyme inhibitors; Ehrlich ascites carcinoma; cell culture; cell--free systems; proteins; chemical structure--biological activity

CA-08218 SCHULTZ, ROBERT B., Sch. Med., Univ. Maryland, Baltimore, Md.
viruses..Shope papilloma virus; viruses..oncogenic viruses; amidinohydrolases..arginase; cell culture; cell types; virus replication; neoplastic growth; deoxyribonucleic acid; amino acids; immunology..antibodies

(contd)

VIROLOGY AND RICKETTSIOLOGY (CONTD)

CA-08286 LENNETTE, EDWIN H., State California Dept. Pub. Hlth., Berkeley, Cal.
viruses..oncogenic viruses; viruses..adenoviruses; viruses..SV40 virus; immunology..antigens; complement--fixation tests; immune sera; germ--free; neoplastic growth; transformation; kidney cells

CA-08329 MUNROE, J. SPENCER, Lenox Hill Hosp., New York, N.Y.
research programs; carcinogenesis; primates..Macaca mulatta; primates..marmoset; primates..tree shrews; viruses..oncogenic viruses; viruses..Rous sarcoma virus; infant animals..newborn; adults; neoplasms transplantation; Rous sarcoma; leukemia; transplantation immunology; pregnancy..placental transfer; bioassay

CA-08502 GRIESEMER, RICHARD A., Col. Vet. Med., Ohio State Univ., Columbus, Ohio
veterinary medicine; germ--free; viruses..oncogenic viruses; neoplasms

CA-08358 BELLIN, JUDITH S., Polytechnic Inst., Brooklyn, N.Y.
viruses..bacteriophage; flavin; photochemistry; binding; polymers; NAD(H2); flavin mononucleotides; cytochrome

CA-08516 KRAFT, LISBETH M., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
germ--free; virus diseases; infant animals; immunology; epizootiology; host--virus; symbiosis; dysentery..viral dysentery

CC-00021 MacCREADY, ROBERT A., Massachusetts Hlth. Res. Inst., Boston, Mass.
eastern encephalitis; disease transmission; geographical sites..Massachusetts; poikilotherms; arthropods; mosquitoes; ovary; hemagglutination inhibition; species; immunology..antigens; immunofluorescence

CC-00023 PAUL, JOHN R., Sch. Med., Yale Univ., New Haven, Conn.
serum banks; serology; epidemiology; immunology..antibodies; World Health Organization; age; immunological tests; lipids..serum lipids; proteases..pepsin; rheumatoid factors

CC-00027 HOFFERT, WARREN R., Sch. Med., Univ. Miami, Coral Gables, Fla.
vaccines..poliomyelitis live vaccine; viruses..enteroviruses; viruses..poliomyelitis virus; sewage; community survey

CC-00030 NELSON, DONALD B., Univ. Wisconsin, Madison, Wis.
viruses..enteroviruses; adults; epidemiology; serology; diagnostic tests

CC-00037 BRANDLY, CARL A., Col. Vet. Med., Univ. Illinois, Urbana, Ill.
zoonoses; research programs; ecology, animal; computer analysis; geographical sites..Illinois; viruses..arthropod-borne viruses (unspecified); viruses..neurotropic viruses; encephalitis

CC-00132 EICHENWALD, HEINZ F., Southwestern Med. Sch., Univ. Texas, Dallas, Tex.
virus diseases; infant human..premature infants; children..preschool; immunity; bacterial diseases; age

DE-01527 SHINEFIELD, HENRY R., Sch. Med., Cornell Univ., New York, N.Y.
viruses..salivary glands viruses; infants human..newborn; immunology; epidemiology; congenital abnormalities; children

EF-00440 CLIVER, DEAN O., Univ. Chicago, Chicago, Ill.
food processing; viruses..enteroviruses; viruses..adenoviruses; viruses..reoviruses; food contamination; radiation effects; temperature; food additives; ionizing radiation

EF-00447 HIRAI, TOKUZO, Col. Agr., Nagoya Univ., Anjo, Aichi-Ken, Japan
host--virus; viruses..tobacco mosaic virus; plants; virus replication

GM-05177 SHARP, D. GORDON, Sch. Med., Univ. North Carolina, Chapel Hill, N.C.
virus diseases; host--virus; immunology..antibodies; viruses..bacteriophage; deoxyribonucleic acid; interferon

GM-09614 SILL, WEBSTER H., Jr., Sch. Agr., Sci., Kansas State Univ., Manhattan, Kans.
viruses..plant viruses; plants; minerals; radiolabeled; viricides

GM-11192 HAMILTON, RICHARD I., Grad. Sch., Montana State Col., Bozeman, Mont.
viruses..tobacco mosaic virus; viruses..barley stripe mosaic virus; nucleic acids; proteins; transformation; plants diseases

GM-11314 GROGAN, RAYMOND G., Coll Agr., Univ. California, Davis, Cal.
fungi..Olpidium brassicae; viruses..plant viruses; host--virus; lettuce; life cycle; microbial culture; host--parasite; disease transmission

GM-11641 KLEIN, MORTON, Sch. Med., Temple Univ., Philadelphia, Pa.
immunology..antibodies; immunology..antigen--antibody reactions; immunological tests; viruses..influenza viruses; viruses..adenoviruses; agglutination reaction, agglutinin; viruses..mumps virus

GM-12039 KUHN, CEDRIC W., Dept. Plant Pathology, Georgia Experiment Station, Experiment, Ga.
viruses..plant viruses; viruses..cowpea virus; viruses; plants diseases; host-virus; population dynamics, microorganisms; virus inhibitors; virus replication

GM-12163 YUNIS, JORGE J., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
ribonucleic acid; messenger ribonucleic acid; immunology..antibodies; viruses..bacteriophage T2; viruses..actinophage; cell culture; proteins

GM-12444 REICHMANN, MANFRED E., Sch. Life Sci., Univ. Illinois, Urbana, Ill.
genetics..genetic coding; viruses..satellite tobacco necrosis virus; virus replication; nucleotide sequence; ribonucleic acid

GM-12646 CARVER, DAVID H., Albert Einstein Col. Med., Bronx, N.Y.
virus inhibitors; virus replication; chemical structure--biological activity; bacteria..Corynebacterium; bacteria..Escherichia coli; nucleic acids; viruses..rubella virus; cells; teratoma

HD-00194 SCOTT, LAURENCE V., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.
viruses..herpes simplex virus; host--virus; maternal-fetal; eye..cornea; age; nutrients; virus replication; HeLa cells; immunofluorescence

HD-00289 BEEM, MARC O., Sch. Med., Univ. Chicago, Chicago, Ill.
respiratory diseases..acute respiratory diseases; infants, human; children; microorganisms; diagnostic tests; epidemiology

HD-00292 KLEIN, S. WAYNE, Baltimore City Hosp., Baltimore, Md.
virus diseases; epidemiology; infants, human..premature infants; cytopathogenic effect, viral; cell culture; kidney; hospitals; infections

HD-00299 THOMAS, JAMES B., Sch. Med., Wake Forest Col., Winston-Salem, N.C.
teratogenic agents; viruses..Coxsackie viruses; viruses..ECHO viruses; viruses..influenza viruses; viruses..Newcastle disease virus; ribonucleic acid; embryo

HD-00300 LIPTON, MURRAY M., Sch. Med., Univ. Louisville, Louisville, Ky.
pregnancy..placental transfer; immunology..antibodies; viruses..poliomyelitis virus; viruses..Coxsackie viruses; viruses..ECHO viruses; pregnancy..amniotic fluid; infant human..newborn

HD-00304 GILLESPIE, JAMES H., New York State Vet. Col., Cornell Univ., Ithaca, N.Y.
viruses..measles virus; viruses..hog cholera virus; immunity; viruses..canine distemper virus; immunology..antibodies; colostrum; infants (animals); vaccines..viral vaccines; taxonomy

HD-00308 HERWEG, JOHN C., St. Louis Children's Hosp., St. Louis, Mo.
viruses..cytomegaloviruses; instrumentation--methodology; tissue culture; virus replication; host--virus; deoxyribonucleic acid; plaque assay technique; MAF cell; infectious deoxyribonucleic acid; latent virus diseases

HD-00737 SCHIFF, GILBERT M., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
diagnostic tests; viruses..rubella virus; tissue culture; immunology..antibodies; host--virus; gamma globulin; rubella; pregnancy; immunological tests; infant human; congenital abnormalities; adults; longitudinal study

HD-00848 SWIM, HAROLD E., Sch. Med., Western Reserve Univ., Cleveland, Ohio
cell culture; viruses..Mengo virus; genetics; ribonucleic acid

HD-01193 SOIKE, KENNETH F., Jr., Albany Med. Col. of Union University, Albany, N.Y.
viruses..Coxsackie viruses; pregnancy..placental transfer; congenital abnormalities; infant animals..newborn; fetus; immune sera; cortisone; somatotropin; guanidines; benzimidazoles; virus diseases

HE-05550 PARROTT, ROBERT H., Research Foundation Children's Hosp., Washington, D.C.
children; virus diseases; myocarditis; heart diseases; oxidoreductases..lactate dehydrogenase; fractionation; immunology..antibodies; blood cells..leukocytes; leukopenia

HE-06237 RABIN, ERWIN R., Col. Med., Baylor Univ., Houston, Tex.
myocarditis; viruses..Coxsackie viruses; virus replication; heart..myocardium; viruses..reoviruses; viruses..vaccinia virus

HE-08484 GILFILLAN, ROBERT F., Fdn. for Res. on Nervous System, Boston, Mass.
viruses; virus diseases; vascular disorders; tissues; immunological tests

NB-00604 JAWETZ, ERNEST, Sch. Med., Univ. California, Berkeley, Cal.
keratoconjunctivitis..epidemic keratoconjunctivitis; conjunctivitis..inclusion conjunctivitis; viruses..trachoma virus; antibiotics; immunology; primates..monkeys; viruses..herpes simplex virus; viruses..adenovirus type 8; latent virus diseases; eye; disease transmission; epidemiology

NB-02824 BERNKOPF, HANS, Hebrew Univ.-Hadassah Med. Sch., Jerusalem, Israel
viruses..trachoma virus; nucleic acids; genetic strains; immunology

NB-03144 GRAYSTON, J. THOMAS, Sch. Med., Univ. Washington, Seattle, Wash.
children; eye; immunology..antigens; primates..monkeys; vaccines..trachoma virus vaccine; viruses..trachoma virus

NB-03423 **KOESTNER, ADALBERT**, Col. Vet. Med., Ohio State Univ., Columbus, Ohio
viruses..poliomyelitis (swine) virus; swine; germ--free; immunological tests; host--virus; nervous system disorders; poliomyelitis--like disease

NB-04855 **STRAATSMA, BRADLEY R.**, Sch. Med., Univ. California, Los Angeles, Cal.
adrenal cortex hormones; eye..cornea; immune sera; immunofluorescence; keratitis; nematodes..Toxocara canis; serology; virus inhibitors; viruses..Herpes simplex virus

NB-04970 **BURNSTEIN, THEODORE**, Sch. Vet. Sci., Med., Purdue Univ., Lafayette, Ind.
viruses..measles virus; viruses..neurotropic viruses; genetic strains; host--virus; allergic encephalomyelitis; cell culture; brain; immunology; nerves..demyelination; germ--free

NB-05244 **JOHNSON, RICHARD T.**, Sch. Med., Western Reserve Univ., Cleveland, Ohio
nervous system, central nervous system; latent virus diseases; viruses..herpes simplex virus; viruses.. rabies virus; reaction sites; virus replication; encephalitis; blood-brain barrier; staining; age; trauma

NB-05363 **NATHANSON, NEAL**, Sch. Hygiene, Johns Hopkins Univ., Baltimore, Md.
viruses..arthropod--borne group B viruses; encephalitis; attenuation, microorganisms; virus diseases; virus replication; reaction sites; nervous system..central nervous system; immunology..antibodies; dosage; primates..monkeys

NB-05364 **NATHANSON, NEAL**, Sch. Hygiene, Johns Hopkins Univ., Baltimore, Md.
virus diseases; viruses..Russian tick-borne complex; disease transmission; virus replication; reaction sites; immunology..antibodies; attenuation..microorganisms; peripheral vascular system; primates.. monkeys

NB-05409 **CRAMBLETT, HENRY G.**, Children's Hosp., Columbus, Ohio
longitudinal study; nervous system disorders; virus diseases; family; age; virulence, microorganisms; pregnancy..placental transfer; immunology..antibodies

NB-05452 **LIU, CHIEN**, Sch. Med., Univ. Kansas, Kansas City, Kansas
encephalitis; latent virus diseases; viruses..arthropod--borne group B viruses; viruses..arthropod--borne group A viruses; viruses..neurotropic viruses; virus replication; serology; immunology..antibodies; lymphocytic choriomeningitis; age; diagnostic tests; brain; primates..monkeys

NB-05545 **MARGOLIS, GEORGE**, Dartmouth Med. Sch., Hanover, N.H.
viruses..rat virus, RV; host--virus; virus replication; cell differentiation; brain..cerebellum; hydrocephalus; cerebellar hypoplasia

VISUAL SCIENCES

AC-00186 **ALLEN, MERRILL J.**, Col. Arts, Sci., Indiana Univ., Bloomington, Ind.
visual perception; automobile accidents..drivers; dark adaptation; eye accommodation; visual field; visual threshold; eye..pupil; reaction time; pilocarpine

AI-07763 **BURNS, ROBERT P.**, Sch. Med., Univ. Oregon, Portland, Ore.
eye disorders; bacteria..Staphylococcus; immunoelectrophoresis; host--parasite; viruses..trachoma virus; viruses..canine hepatitis virus; epidemiology; viruses.. herpes simplex virus; bacteria..Mycoplasma

AI-06093 **SEARS, MARVIN L.**, Sch. Med., Yale Univ., New Haven, Conn.
electron microscopy; eye..Schlemm's canal; 5-iododeoxyuridine; laboratory facilities; primates..monkeys; virus inhibitors; viruses..Herpes Simplex virus; viruses.. influenza viruses; viruses..mumps virus; viruses..Vaccinia virus

AM-06966 **FARKAS, TIBOR G.**, Sch. Med., Univ. Chicago, Chicago, Illinois
cataract; diabetes; enzymes; enzymes inhibitors; eye..lens; fructose; glucose; glucose uptake stimulating factors; glutathione; insulin; pyridine nucleotides

AM-08344 **PATTERSON, JOHN W.**, Sch. Med., Univ. Connecticut, Storrs, Conn.
cataract; diabetes; eye..lens; galactose; insulin

CA-06864 **BAUM, GILBERT**, Bronx Veterans Hosp., Bronx, N.Y.
adipose tissue; carbohydrases..hyaluronidase; dehydration (body fluids); diagnostic tests; edema (generalized); exophthalmos; eye; eye disorders; eye neoplasms; hydration (body fluids); hyperthermia; hypothermia; ultrasonic echoencephalography; urea; vasoactive agents..vasodilators

CD-00013 **BECKER, BERNARD**, Sch. Med., Washington Univ., St. Louis, Mo.
glaucoma; cooperative study; diagnostic tests; eye.. intraocular pressure; eye..aqueous outflow; visual field; tonometry; ophthalmoscopy; gonioscope; longitudinal study

CD-00014 **SHAFFER, ROBERT N.**, Univ. California Med. Cr., San Francisco, Cal.
glaucoma; tonometry; screening; family; cooperative study

CD-00016 **POLLACK, IRVIN**, Johns Hopkins Univ., Baltimore, Md.
diagnostic tests; glaucoma; eye..intraocular pressure; eye..aqueous outflow; longitudinal study; cooperative study

CD-00017 **ARMALY, MANSOUR F.**, Sch. Med., Univ. Iowa, Iowa City, Iowa
glaucoma; cooperative study; diagnostic tests; eye.. aqueous outflow; visual field; tonometry; longitudinal study; family

CD-00020 **LEVENE, RALPH Z.**, New York Univ. Med. Cr., New York, N.Y.
glaucoma; diagnostic tests; screening; genetics; longitudinal study; eye..intraocular pressure; eye..anterior chamber angle; epidemiology

GM-09495 **CARPENTER, RUSSELL L.**, Col. Liberal Arts, Tufts Univ., Medford, Mass.
microwave radiation; radiation effects; testis disorders; eye..lens; cataract

HD-00790 **DORIS, JOHN L.**, Col. Home Ec., Cornell Univ., Ithaca, N.Y.
infant human; vision tests..flicker fusion; visual stimulus; nystagmus; visual perception; child development

HE-07250 **ARONSTAM, ROBERT H.**, USPHS Hosp., Staten Island, N.Y.
eye..retina; hypertension (systemic); eye..fundus oculi; therapy

HE-08931 **PEARCE, MORTON L.**, Univ. California Med. Cr., Los Angeles, Cal.
hypertension (systemic); retinopathy; eye..fundus oculi; eye..retina; capillary beds; retinal circulatory disorders; age; sex difference

MH-08164 **KAPLAN, IRA T.**, New York Univ. Med. Cr., N.Y.C.
diagnostic tests; eye disorders; eye movement; form perception; psychophysics; visual perception

MH-08922 **COHEN, JOZEF**, Grad. Col., Univ. Illinois, Urbana, Ill.
stimulus generalization; color vision; discrimination; visual stimulus

NB-00044 **HOGEN, MICHAEL J.**, Sch. Med., U. California, San Francisco, Cal.
uveitis; toxoplasmosis; protozoa..Toxoplasma; eye.. aqueous humor; eye..vitreous body; respiratory diseases; retinitis; immune sera; pyrimethamine; 2-sulfanilamidopyrimidine; brain

NB-00213 **ROBERTS, WINSTON R.**, Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.
diagnostic tests; documentation systems; eye..aqueous outflow; eye..intraocular pressure; eye surgery; glaucoma; longitudinal study; therapy; visual field

NB-00218 **GRANT, W. MORTON**, Massachusetts Eye, Ear Inf., Boston, Mass.
eye..aqueous outflow; eye..intraocular pressure; eye surgery; glaucoma; instrumentation; therapy; tonometry

NB-00237 **JANES, RALPH G.**, State Univ. Iowa, Iowa City, Iowa
diabetes; cataract; galactose; diet; eye..aqueous humor; blood..plasma; glucose; insulin; computer analysis; cholesterol; lipids; diazepam

NB-00253 **LOEWENFELD, IRENE E.**, Col. Phys., Surg., Columbia Univ., New York, N.Y.
pupillography; nervous system..autonomic nervous system; nervous system..central nervous system; fatigue; eye disorders; publications..book; eye..iris; reflex

NB-00294 **BENDER, MORRIS B.**, Mount Sinai Hosp., New York, N.Y.
eye movement; body movement; brain..brain stem; brain lesions; visual perception; behavior; primates..monkeys; electrophysiology; ear..inner ear; ear..vestibular apparatus

NB-00349 **BURIAN, HERMANN M.**, State Univ. Iowa, Iowa City, Iowa
aging; amblyopia; blood disorders; chemotherapy; color vision; hypertension; hypotension; photostimulus; visual fixation

NB-00568 **HUBBARD, RUTH**, Grad. Sch., Harvard Univ., Cambridge, Mass.
eye..retina; isomers; retinene; visual pigments; rhodopsin; vitamin A

NB-00621 **BECKER, BERNARD**, Sch. Med., Washington Univ., St. Louis, Mo.
eye..aqueous outflow; eye..ciliary body

NB-00624 **BOYNTON, ROBERT M.**, Col. Arts, Sci., Univ. Rochester, Rochester, N.Y.
vision tests..flicker fusion; color vision; light adaptation; visual perception; psychophysics; eye disorders; vision

NB-00786 **HOGAN, MICHAEL J.**, Univ. California Med. Cr., San Francisco, Cal.
protozoa..Toxoplasma; genetic strains; virulence.. microorganisms; chorioretinitis; protozoan cysts

NB-00810 **SLOAN, LOUISE L.**, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
criteria; eye disorders; instrumentation; optical aids; reading; vision tests

NB-00864 **HARTLINE, HALDAN K.**, Rockefeller Inst., N.Y.C.
computer programming; electrophysiology; eye; instrumentation; nerves..neurons; photoreceptors; single cell analysis

NB-00911 **BREININ, GOODWIN M.**, New York Univ. Med. Cr., N.Y.C.
anesthetics; computer analysis; electrodes..microelectrodes; electromyography; muscle..extraocular muscles; muscle relaxants; neuromuscular disorders

(contd)

VISUAL SCIENCES (CONTD)

NB-01010 MANSKI, WLADYSLAW, Col. Phys., Surg., Columbia Univ., New York, N.Y.
proteins; eye..lens; phylogeny; immune sera; immunology..antibodies; amino acid; congenital cataract; uveitis

NB-01099 HOGAN, MICHAEL J., Sch. Med., Univ. California, San Francisco, Cal.
adrenal cortex hormones; antibiotics; arthritis; eye..aqueous humor; hyperproteinemia; hypoproteinemia; immunoelectrophoresis; iridocyclitis; nervous system disorders; sarcoidosis; therapy; toxoplasmosis; ultracentrifugation; uveitis; vaccines; viruses

NB-01100 KINSEY, V. EVERETT, Kresge Eye Inst., Detroit, Mich.
eye..intraocular fluid dynamics; eye..lens; sugar; chemical structure; diffusion; amino acid; acetazolamide; radiolabeled carbon; tritium

NB-01142 MERRIAM, GEORGE R., Jr., Col. Phys., Surg., Columbia Univ., N.Y.C.
cataractogen; eye..lens; norepinephrine; parathyroid hormones; proteins; radiation effects; ribonucleic acid

NB-01161 GEORGIADE, NICHOLAS G., Duke Univ. Med. Cr., Durham, N.C.
eye bank; eye..cornea; eye..corneal opacity; keratoplasty; histocompatibility; freezing; silicon

NB-01229 HOGAN, MICHAEL J., Sch. Med. Univ. California, San Francisco, Cal.
electron microscopy; eye..choroid; eye..conjunctiva; eye..cornea; eye..retina; eye..Schlemm's canal; eye..trabecular meshwork; glaucoma

NB-01233 DITCHBURN, ROBERT W., Sch. Physics, Univ. Reading, Berkshire, England
visual perception; movement perception; eye movement; electronic recording; communication theory; eye..retina; color vision

NB-01325 BREININ, GOODWIN M., New York Univ. Med. Cr., New York, N.Y.
strabismus; parasympathomimetic agents; eye..ciliary body; electrophysiology; eye accommodation

NB-01375 CONSTANT, MARGUERITE A., Washington Univ., St. Louis, Mo.
acid-base equilibrium; cataract; endocrine glands; eye..aqueous humor; eye..lens

NB-01404 SIMONSON, ERNST, Univ. Minnesota, Minneapolis, Minn.
vision tests..flicker fusion; eyes; color vision; metabolic diseases; cardiovascular diseases; altitude; exercise; cold; autonomic agents; stimulants; depressants; stress; visual perception; potentials..evoked potentials

NB-01408 LIPETZ, LEO E., Ohio State Univ. Res. Fdn., Columbus, Ohio
eye..retina; photostimulus; nervous system..optic nerve; nerve impulse transmission; gangliocytes; electrophysiology; light adaptation

NB-01413 MALIS, LEONARD I., Mount Sinai Hosp., N.Y.C.
brain..visual cortex; brain lesions; computer analysis; electrostimulus; high energy particles; nerves, dendrites; nervous system..optic nerve; photostimulus; potentials; regeneration; single cell analysis

NB-01453 RIGGS, LORRIN A., Grad. Sch., Brown Univ., Providence, R.I.
color vision; electroretinography; vision tests..flicker fusion

NB-01482 WOLF, ERNST, Retina Fdn., Boston, Mass.
age; eye..retina; eye disorders; vision tests..flicker fusion; visual threshold

NB-01509 CRESCITELLI, FREDERICK, Grad. Sch., Univ. California, Los Angeles, Cal.
electrodes..microelectrodes; brain..cerebral cortex; photostimulus; color vision; eye..retinal cones; potentials; visual pigments

NB-01516 SERY, THEODORE W., Wills Eye Hosp., Philadelphia, Pa.
eye..cornea; eye..corneal opacity; diffusion; foreign proteins; immunology; viruses..herpes simplex virus; hypersensitivity

NB-01578 ALPERN, MATHEW, Med. Sch., Univ. Michigan, Ann Arbor, Mich.
color vision; eye accomodation; eye disorders; psychophysiology; vision tests..flicker fusion

NB-01637 OGLE, KENNETH N., Mayo Assn., Rochester, Minn.
instrumentation-methodology; visual perception; visual threshold; photostimulus; eye..retina; eye accomodation

NB-01689 ARMALY, MANSOUR F., Sch. Med., State Univ. Iowa, Iowa City, Iowa
eye..intraocular fluid dynamics; nervous system..central nervous system; brain..hypothalamus; brain lesions; radiation effects; ultrasonics; diagnostic tests; glaucoma; tonometry; computer

NB-01782 HOGAN, MICHAEL J., Sch. Med., Univ. California, San Francisco, Cal.
glaucoma; eye; cytology; viruses..trachoma virus; viruses..psittacosis virus; nucleic acids

NB-01789 OKUN, EDWARD, Sch. Med., Washington Univ., St. Louis, Mo.
ocular siderosis; hemosiderosis; eye; diffusion; iron; mucopolysaccharides; retinal circulatory disorders

NB-01820 SCHWARTZ, BERNARD, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
eye..lens; organ culture; membrane permeability and transport; glucose; amino acids; ascorbic acid; aging; cataract; radiation effects

NB-01851 DONALDSON, DAVID D., Sch. Med., Harvard Univ., Cambridge, Mass.
instrumentation; ophthalmology; eye disorders; diagnostic tests; therapy

NB-01852 OGLE, KENNETH N., Mayo Assn., Rochester, Minn.
depth perception; psychophysics; retinal flash stimulator; vision tests

NB-01903 BROWN, KENNETH T., Sch. Med., Univ. California, San Francisco, Cal.
eye..retinal rods; eye..retinal cones; electroretinography; blood circulation dynamics; single cell analysis; photostimulus; electrostimulus; nervous system..optic nerve; primates..monkeys; retinal circulation

NB-01923 KROPF, ALLEN, Amherst Col., Amherst, Mass.
chemical structure; isomers; opsin; photochemistry; proteins; retinene; retinene analogs; rhodopsin; synthesis

NB-01979 HARRIS, JOHN E., Univ. Minnesota, Minneapolis, Minn.
eye..intraocular fluid dynamics; osmotic pressure; eye..intraocular pressure; membrane permeability; ion exchange; eye..lens; eye..cornea; epithelium; endothelium; endothelium permeability

NB-02003 OGLE, KENNETH N., Mayo Fdn., Rochester, Minn.
pupillography; nervous system disorders; diagnostic tests; neuromuscular disorders

NB-02010 BERNSTEIN, MAURICE H., Col. Med., Wayne State Univ., Detroit, Mich.
eye..retina; pigments; nutrients; epithelium; visual pigments; blood supply; eye..fundus oculi; eye..choroid; capillaries

NB-02062 KING, JOHN H., Jr., Washington Hosp. Cr., Washington, D. C.
tissue preservation; eye..cornea; eye..vitreous body; freezing; keratoplasty

NB-02165 JONES, RICHARD W., Northwestern Univ., Evanston, Ill.
computer analysis; eye accomodation; instrumentation; mathematical models; photoreceptors; pupillary reflex; pupillography; vision; vision tests; visual fixation

NB-02168 ENOCH, JAY M., Sch. Med., Washington Univ., St. Louis, Mo.
amblyopia; color vision; eye..retina; eye disorders; photocoagulation; therapy; vision tests

NB-02198 PATZ, ARNALL, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
capillaries; enzymes; eye..retina; histogenesis

NB-02201 BLACKWELL, H. RICHARD, Sch. Med., Ohio State Univ., Columbus, Ohio
congenital abnormalities; psychophysics; retinal detachment; retinitis; retinopathy; vision tests

NB-02205 BROWN, JOHN L., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
visual perception; psychophysics; color vision; discrimination; eye..retinal rods; eye..retinal cones; behavior; conditioning; respiration

NB-02207 KUPFER, CARL, Massachusetts Eye, Ear Infirmary, Boston, Mass.
eye..intraocular pressure; eye..aqueous outflow; ascorbic acid; primates..monkeys

NB-02208 ENROTH-CUGELL, CHRISTINA A.E., Sch. Med., Northwestern Univ., Evanston, Ill.
eye..retinal ganglion; photostimulus; potentials..action potentials; single cell analysis

NB-02212 HOLLAND, MONTE G., Sch. Med., Tulane Univ., New Orleans, La.
biomathematics; elasticity; eye..aqueous humor; eye..ciliary body; potentials..membrane potentials

NB-02220 DOHLMAN, CLAES H., Retina Fdn., Boston, Mass.
eye..cornea; eye..intraocular pressure; edema; dehydration; endothelium permeability and transport; polysaccharides; injuries..wound healing; keratoplasty; implants

NB-02274 DE VALOIS, RUSSELL L., Grad. Sch., Indiana Univ., Bloomington, Ind.
brain..geniculate body lateral; color vision; electrodes..microelectrodes; electrophysiology; eye..retina; photostimulus; primates..monkeys

NB-02334 SCHMEDTJE, JOHN F., Tufts Univ. Sch. Med., Boston, Mass.
foreign proteins; eye; immunology; nervous system..autonomic nervous system; electrostimulus; sympathomimetic agents; parasympathomimetic agents

NB-02343 DONN, ANTHONY, Col. Phys. ; Surg., Columbia Univ., New York, N.Y.
eye..cornea; cholinesterases..acetylcholinesterase; acetylcholine; epithelium

NB-02521 POTTS, ALBERT M., Univ. Chicago, Chicago, Ill.
cataract; diffusion; eye..cornea; eye..corneal opacity; eye..lens; membrane permeability; proteins; radiation effects; tritium

NB-02522 POTTS, ALBERT M., Sch. Med., Univ. Chicago, Chicago, Ill.
disease classification; electroretinography; instrumentation; retinopathy

NB-02542 KIMURA, SAMUEL J., Sch. Med., Univ. California, San Francisco, Cal.
Protozoa..Toxoplasma; viruses..herpes simplex virus; immunology..autoantigens; immunology..antigens; immunofluorescence; fluorescence microscopy; uveitis; eye disorders; microorganisms

NB-02546 SERY, THEODORE W., Wills Eye Hosp., Philadelphia, Pa.
capillaries; endothelium; uveitis; immunology..antigens; immunology..autoantigens; toxins; immune sera; microorganisms

NB-02555 KRISHNA, HARENDRA, Wills Eye Hosp., Philadelphia, Pa.
oxidases..monoamine oxidase; enzymes inhibitors..monoamine oxidase inhibitors; eye; bioassay; ammonia; oxygen consumption; eye..intraocular pressure; eye..cumil

NB-02588 MUNZ, FREDERICK W., Col. Liberal Arts, Univ. Oregon, Eugene, Oregon
visual pigments; migratory animals; cyclic functions; hormones; environment

NB-02589 GOODMAN, GEORGE, Sch. Med., New York Univ., New York, N.Y.
retinopathy; genetics; diagnostic tests; electroretinography; vision tests; psychophysics

NB-02591 LANGHAM, MAURICE E., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
glaucoma; eye..intraocular fluid dynamics; tonometry; nervous system..sympathetic nervous system; sympathomimetic agents; electron microscopy; eye..ciliary body; epithelium; enzymes inhibitors..carbonic anhydrase inhibitors; instrumentation

NB-02633 JAMPOLSKY, ARTHUR, San Francisco Inst. Med. Sci., San Francisco, Cal.
electromyography; electroretinography; electrooculography; muscle..extraocular muscles; eye movement; eye disorders; eye..cornea; eye..retina; potentials; kinesthesis; drugs

NB-02634 BETTMAN, JEROME W., Presbyterian Med. Cr., San Francisco, Cal.
eye circulation; vasoactive agents; nervous system..parasympathetic nervous system; blood flow; eye..retina; epinephrine; splenectomy; urea; blood cells..erythrocytes; blood volume; eye..choroid; eye..intraocular fluid dynamics

NB-02660 BENOLKEN, ROBERT M., Grad. Sch., Univ. Minnesota, Minneapolis, Minn.
single cell analysis; temperature; nervous system..optic nerve; potentials; eye; mechanical vibrations; sense organs; mechanoreceptors; Venus flytrap

NB-02664 NUNNEMACHER, RUDOLPH F., Grad. Sch., Clark Univ., Worcester, Mass.
eye..compound eye; eye..retina; sensory mechanisms; ganglion, nervous system; nervous system..optic nerve

NB-02667 CAMPBELL, CHARLES J., Col. Phys., Surg., Columbia Univ., New York, N.Y.
sensory mechanisms; eye..retina; eye disorders; photosensitivity; instrumentation; photocoagulation

NB-02681 SYMMES, DAVID, Sch. Med., Yale Univ., New Haven, Conn.
primates..monkeys; brain lesions; brain..cerebral cortex; vision tests..flicker fusion; hearing tests..flutter fusion; visual threshold; auditory threshold

NB-02698 COGAN, DAVID G., Sch. Med., Harvard Univ., Cambridge, Mass.
electron microscopy; cytology; eye..retina; blood vessels; oxidoreductases..dehydrogenases; tetrazolium salts; adenosine triphosphate; cell components..mitochondria; diabetic retinopathy

NB-02709 STRAATSMA, BRADLEY R., Sch. Med., Univ. California, Los Angeles, Cal.
chemotherapy; environment; eye; instrumentation; retractometry

NB-02863 WALSH, FRANK B., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
brain..brain stem; diagnostic tests; eye disorders; eye neoplasms; publications..atlas; vascular disorders

NB-02866 ALLEN, RAYMOND A., Sch. Med., Univ. California, Los Angeles, Cal.
aging; eye..anterior chamber angle; eye..iris; eye disorders; growth

NB-02873 WOLTER, J. REIMER, Univ. Michigan Med. Cr., Ann Arbor, Mich.
eye; eye disorders; publications..book

NB-02885 REDDY, D.V.N., Kresge Eye Inst., Detroit, Michigan
carbohydrates; blood-aqueous barrier; ion; potassium; eye..lens; eye..aqueous humor; amino acid; α-aminoisobutyric acid; diabetes; cataract

NB-02889 SJOSTRAND, FRITIOF S., Col. Ltrs., Sci., Univ. California, Los Angeles, Cal.
brain..geniculate body lateral; brain..visual cortex; embryology; eye..retina; nerve impulse transmission; nerves..neuroglia; nerves..synapse

NB-03010 McLEAN, JOHN M., Col. Med., Cornell Univ., New York, N.Y.
blood; osmotic pressure; eye..intraocular pressure; eye..aqueous outflow; blood pressure; biomathematics; glaucoma; therapy; blood--aqueous barrier

NB-03014 RUSHTON, WILLIAM A.H., Sch. Med., Univ. Cambridge, Cambridge, England
visual pigments; densitometry; eye..retina; color vision; vision; visual threshold; dark adaptation

NB-03015 COGAN, DAVID G., Med. Sch., Harvard Univ., Cambridge, Mass.
eye..retina; glycogen; dehydrogenases; phosphorylases; uridine diphosphate; radiolabeled carbon

NB-03040 MAUMENEE, A. EDWARD, Sch. Med., Johns Hopkins Univ., Baltimore, Md.
hypersensitivity; eye..cornea; immunology..anamnestic reaction; tuberculin hypersensitivity

NB-03060 BARANY, ERNST H., Sch. Med., Uppsala Univ., Uppsala, Sweden
eye..trabecular meshwork; eye..intraocular pressure; eye..aqueous outflow; eye..uvea; primates..monkeys; blood flow; eye circulation

NB-03076 WATERMAN, TALBOT H., Yale Univ., New Haven, Conn.
eye..compound eye; electrophysiology; nervous system..optic nerve; single cell analysis; vision

NB-03081 LERMAN, SIDNEY, Sch. Med., Dent., Univ. Rochester, Rochester, N.Y.
eye..lens; cataract; ribonucleic acid; carbohydrates; proteins; diabetes, alloxan diabetes; radiation effects

NB-03129 NOLAN, CARSON Y., American Printing House Blind, Louisville, Ky.
braille; reading; teaching; instrumentation

NB-03142 DELLAPORTA, ANGELOS, Sch. Med., Stanford Univ., Stanford, Cal.
congenital abnormalities; eye surgery; genetics; retinal detachment

NB-03154 WESTHEIMER, GERALD, Sch. Optometry, Univ. California, Berkeley, Cal.
eye..retina; eye movement; nervous system..oculomotor nerve; nervous system..optic nerve; optics; photochemistry; vision

NB-03177 CHATZINOFF, ALBERT B., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
11-cis vitamin A; retinitis pigmentosa; chemotherapy; vision tests; ophthalmoscopy; longitudinal study

NB-03215 FISHER, EARL, Jr., Sch. Med., Tulane Univ., New Orleans, La.
eye..cornea; proteases; proteins; eye disorders; infectious diseases; bacteria; fractionation

NB-03216 NEWELL, FRANK W., Sch. Med., Univ. Chicago, Chicago, Ill.
tritium; acetazolamide; acetazolamide analogs; eye; kidney; radioautography

NB-03240 RICHARDS, RICHARD D., Sch. Med., Univ. Maryland, College Park, Md.
fluorescent dyes; eye..lens; epithelium; radiation effects; x-rays

NB-03284 O'ROURKE, J., Georgetown Univ., Washington, D.C.
cannulation; eye; arterial infusions; arteries; blood flow; drugs

NB-03291 ZWENG, H. CHRISTIAN, Palo Alto Med. Res. Fdn., Palo Alto, Cal.
arterial occlusions; retinal circulatory disorders; blood coagulation..plasmin; therapy; eye..intraocular pressure; visual perception; visual field; eye..fundus oculi; blood coagulation..fibrinolysis; enzymes inhibitors..antiplasmin; venous occlusions

NB-03292 JESBERG, DAVID O., Sch. Med., Univ. California, San Francisco, Cal.
eye disorders; congenital abnormalities; genetics; infectious diseases; metabolic diseases

NB-03370 BALAZS, ENDRE A., Retina Fdn., Boston, Mass.
chondroitin sulfate; collagen; connective tissue; cytology; eye..cornea; eye..sclera; eye..vitreous body; histogenesis; hyaluronic acid; injury..wound healing; keratosulfate; mucopolysaccharides; proteins; research programs

NB-03412 CORNSWEET, TOM N., Univ. California, Berkeley, Cal.
eye movement; visual perception

NB-03413 SOKOLLU, ADNAN, Western Reserve Univ., Cleveland, Ohio
ultrasonic echooculography; eye; instrumentation; eye disorders

NB-03417 WOODFORD, VERNON R., Sch. Med., Univ. Saskatchewan, Saskatoon, Saskatchewan, Canada
dehydratases..carbonic anhydrase; eye..ciliary body; tissue; enzyme inhibitors..carbonic anhydrase inhibitors; glaucoma; therapy; eye..lens

NB-03443 WITTGENSTEIN, EVA, Children's Hosp. Res. Fdn., Cincinnati, Ohio
cataract; glutathione; eye..lens; immunoelectrophoresis; galactose; proteins; crystallins, lens

NB-03444 STONE, LEON S., Sch. Med., Yale Univ., New Haven, Conn.
eye..lens; regeneration; transplantation..heterotransplantation; eye..iris; eye..retina; brain..visual tectum; vision; embryology; eye transplantation

NB-03446 BARBER, GEORGE W., Wills Eye Hosp., Philadelphia, Pa.
aging; amino acid; dietary deficiency; eye..lens opacity; hormones; metabolic diseases; proteins

NB-03448 PAPPAS, GEORGE D., College Phys., Surgs., Columbia Univ., N. Y. C.
eye; eye..aqueous outflow; blood circulation dynamics; eye circulation; pinocytosis; cell components, cell membrane

NB-03452 KELLY, STEPHEN J., Univ. Alabama Med. Cr., Birmingham, Ala.
telemetering; eye..intraocular pressure; tonometry; instrumentation; arteries..ophthalmic artery; blood pressure; implants; diurnal variation

NB-03457 REIGELMAN, SIDNEY, Univ. California, San Francisco Med. Cr., San Francisco, Cal.
eye..cornea; perfusion; membrane permeability and transport; adrenal cortex hormones; solvents; hydrogen-ion concentration

NB-03536 KAUFMAN, HERBERT E., J. Hillis Miller Hlth. Cr., Gainesville, Fla.
herpes simplex; keratitis; therapy evaluation

NB-03576 CHRISTENSEN, ROBERT E., Sch. Med., Univ. California, Los Angeles, Cal.
glaucoma; tonometry; goniophotography; photography; eye fundus oculi; autopsy

(contd)

VISUAL SCIENCES (CONTD)

NB-03582 MacNICHOL, EDWARD F., Jr., Sch. Arts, Sci., Johns Hopkins Univ., Baltimore, Md.
laboratory facilities; spectrophotometry; photoreceptors; eye..retinal ganglion; primates..monkeys; electrophysiology; single cell analysis; eye..retina; color vision; nervous system..optic nerve

NB-03583 SHAFFER, ROBERT N., Sch. Med., Univ. California, San Francisco, Cal.
conferences; glaucoma

NB-03590 CHAPMAN, ROBERT M., Inst. for Behavioral Research, Silver Spring, Md.
color vision; single cell analysis; nerves..neurons; eye..retina; electrophysiology; conditioning; potentials.. evoked potentials; learning

NB-03623 BETTMAN, JEROME W., Presbyterian Med. Cr., San Francisco, Cal.
steroids; cataract; stress; emotional reactions; arthritis..rheumatoid arthritis; chemotherapy; ionizing radiation; galactose

NB-03628 CONLEY, ROBERT T., Seton Hall Univ., South Orange, N.J.
synthesis; Erythrina alkaloids

NB-03667 RODRIGUEZ-PERALTA, LORENZO, Sch. Med., Temple Univ., Philadelphia, Pa.
blood--vitreous barrier; blood--aqueous barrier; eye; reaction sites; eye circulation; membrane permeability and transport; blood vessels; nervous system..optic nerve; diaminoacridines; primates..monkeys

NB-03682 NACHMIAS, JACOB, Univ. Pennsylvania, Philadelphia, Pa.
photostimulus; psychophysics; visual threshold

NB-03689 FREEMAN, ROBERT G., Col. Med., Baylor Univ., Houston, Tex.
8-methoxy psoralen; photosensitivity; eye; phenothiazine; sulfonamides; chlorothiazide; ultraviolet rays; radiation effects; slit-lamp

NB-03711 SIPPEL, THEODORE O., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
eye..lens; tissue respiration; cell division..mitosis; adenosine triphosphate; cataract; sulfhydryls; glutathione; malic acid

NB-03721 WULFF, VERNER J., Masonic Med. Res. Lab., Utica, N.Y.
electrophysiology; photostimulus; single cell analysis; eye..compound eye; dyes

NB-03750 DeVOE, ROBERT D., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
eye; potentials; photostimulus; mathematical models; light adaptation; temperature

NB-03770 LAUBER, JEAN K., Grad. Sch., Washington State Univ., Pullman, Wash.
eye disorders; brain disorders; photosensitivity; eye; brain; endocrine glands; photoneriodism

NB-03781 SEARS, MARVIN L., Sch. Med., Yale Univ., New Haven, Conn.
eye..aqueous outflow; nervous system..sympathetic nervous system; sympathomimetic agents

NB-03785 STRAATSMA, BRADLEY R., Sch. Med., Univ. California, Los Angeles, California
surgical adhesives; eye surgery; eye prosthesis; histocompatibility

NB-03788 WEIMAR, VIRGINIA L., Sch. Med., Univ. Oregon, Portland, Ore.
amino acid analogs; connective tissue; enzyme inhibitors; enzymes; epithelium; eye..cornea; fibroblasts; injury.. wound healing; purine analogs; pyrimidine analogs

NB-03807 YOUNG, RICHARD W., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
eye; growth; histogenesis; ribonucleic acid; proteins; enzymes; radioautography

NB-03870 TOMITA, TSUNEO, Sch. Med., Keio Univ., Tokyo, Japan
electroretinography; photostimulus; potentials..action potentials

NB-03934 LUDVIGH, ELEK J., II, Kresge Eye Inst., Detroit, Mich.
visual perception; eye movement; electronic recording; vision tests; photostimulus; computer; eye disorders

NB-03951 HOYT, WILLIAM F., Sch. Med., Univ. California, San Francisco, Cal.
nervous system..optic nerves; nerves degeneration.. Wallerian degeneration; electron microscopy; primates.. monkeys; nerves..axons; nerves..myelination

NB-03954 KAUFMAN, HERBERT E., Sch. Med., Univ. Florida, Gainesville, Fla.
diagnostic tests; eye..aqueous humor; hemagglutination inhibition; hypersensitivity; immunology..antibodies; immunology..antigens; serology; toxoplasmosis; uveitis

NB-03974 KROMAN, HENRY S., Sch. Med., Hahnemann Med. Col., Philadelphia, Pa.
non-polar molecules; eye..aqueous humor; fractionation; functional groups; eye disorders; stress; inflammation; blood; adrenal cortex hormones; radiolabeled carbon

NB-03998 BRUNISH, ROBERT, Sch. Med., Univ. Copenhagen, Copenhagen, Denmark
thyrotropin; exophthalmogenic hormone; mucopolysaccharides; hyaluronic acid; sulfates; water--electrolyte balance; mast cells; eye..retrobulbar tissues; skin; exophthalmos; sephadex gel filtration; starch gel electrophoresis; ultracentrifugation; radiolabeled

NB-04024 HANNA, CALVIN, Sch. Med., Univ. Arkansas, Little Rock, Ark.
cataract; aging; eye..lens

NB-04125 FROMM, PAUL O., Grad. Sch., Michigan State Univ., East Lansing, Mich.
eye disorders; fish; microbial culture

NB-04140 SPALTER, HAROLD F., Col. Phys., Surg., Columbia Univ., N.Y.C.
eye..lens; eye..uvea; immunology..autoantibodies; uveitis

NB-04194 SJOSTRAND, FRITIOF S., Univ. California, Los Angeles, Cal.
body fluids; cell components..cell membrane; eye.. retina; lipids; nerves..myelination; nerves..neuroglia; nervous system..central nervous system; radioautography; radiolabeled

NB-04218 THOMAS, ROBERT P., Med. Col. Georgia, Augusta, Georgia
atherosclerosis; diet; eye..aqueous outflow; glaucoma; lipids..serum lipids; vascular disorders

NB-04228 ALLEN, RAYMOND A., Sch. Med., Univ. California, Los Angeles, Cal.
eye..retinal bipolar neurons; neuroglia; cytology; eye.. retinal rods; eye..retinal cones; eye..retinal ganglion; electron microscopy; eye models

NB-04229 LEVENE, RALPH Z., New York Univ. Med. Sch., N.Y.C.
diabetic retinopathy

NB-04230 LEVENE, RALPH Z., New York Univ. Med. Sch., N.Y.C.
blood vessels; eye..cornea; histogenesis; injury; oxygen tension; polarography

NB-04233 DUANE, THOMAS D., Jefferson Med. Col., Philadelphia, Pa.
plethysmography; instrumentation; eye..intraocular pressure; ophthalmoscopy; eye..fundus oculi; vision tests; arterial occlusions; arteries..ophthalmic artery; arteries.. retinal arteries; blood circulation dynamics; gravity

NB-04242 FLOM, MERTON C., Sch. Optometry, Univ. California, Berkeley, Cal.
amblyopia; diagnostic tests; eye movement; psychometrics; tremor; vision tests; visual fixation; visual perception

NB-04243 WAITZMAN, MORTON B., Med. Sch., Emory Univ., Atlanta, Ga.
adenosine phosphates; amino acid; deamination; eye.. aqueous humor; eye..aqueous outflow; eye..ciliary body; mucopolysaccharides; nucleotides; radiolabeled; transamination

NB-04285 FRAYSER, REGINA, Indiana Univ. Med. Cr., Indianapolis, Indiana
eye..retina; eye..intraocular pressure; blood circulation dynamics; blood pressure; blood volume; oxygen; enzymes inhibitors; eye disorders; metabolic diseases; retinal circulatory disorders

NB-04288 KINOSHITA, JIN H., Sch. Med., Harvard Univ., Boston, Mass.
eye..lens opacity; carbohydrates; adenosine triphosphate; aging; sodium; potassium; amino acids; proteins; glutathione; eye..cornea; epithelium; stroma; pentose pathway

NB-04310 ARONSON, SAMUEL B., Univ. California Med. Cr., San Francisco, Cal.
ophthalmia sympathetic; immunity..autoimmunity; homologous wasting disease; immunology..antigens; adjuvants, immunology; passive sensitization transfer factor; eye..cornea; eye..conjunctiva; keratoconjunctivitis..phlyctular keratoconjunctivitis

NB-04319 WAITZMAN, MORTON B., Sch. Med., Emory Univ., Atlanta, Ga.
eye..ciliary body; eye..iris; tonometry; pupillography; eye..intraocular fluid dynamics; eye..aqueous humor; parasympathomimetic agents; infrared spectrometry; cannulation; liver; brain

NB-04333 O'ROURKE, J., Georgetown Univ. Med. Cr., Washington, D.C.
eye..uvea; blood flow; tissue respiration; uveitis; glucose; oxygen; carbon dioxide

NB-04334 ZADUNAISKY, JOSE A., Sch. Med., Univ. Louisville, Louisville, Ky.
eye..cornea; eye..corneal opacity; electrophysiology; ion exchange and transport; epithelium; endothelium; hydration (body fluids); antimetabolites; hypoxia

NB-04342 HURVICH, LEO M., Univ. Pennsylvania, Philadelphia, Pa.
vision; eye..retina; photostimulus; visual perception; psychophysics; color vision; visual threshold

NB-04446 MAUMENEE, A.E., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
diabetes; diabetic retinopathy; tissue respiration; blood vessels; pancreas; longitudinal study; fats; diet

NB-04452 McCONNELL, DAVID G., Ohio State Univ. Res. Fdn., Columbus, Ohio
eye..retina; photochemistry; cell components.. mitochondria; enzymes

NB-04501 IRVINE, A. RAY, Jr., Estelle Doheny Eye Fdn., Los Angeles, Cal.
growth; eye..cornea; endothelium; hyphema; eye..intraocular pressure; ocular siderosis; pinocytosis; metaplasia

NB-04539 BINDER, RUDOLF F., Sch. Med., Western Reserve Univ., Cleveland, Ohio
hyphema; hemolysis; immune sera; immunology..antibodies; therapy

NB-04547 JAMPEL, ROBERT S., Col. Phys., Surg., Columbia Univ., N.Y.C.
brain; brain lesions; electrostimulus; eye; eye movement; muscle; nerves..innervation; potentials; primates.. monkeys; strabismus

NB-04578 KRUGER, LAWRENCE, Sch. Med., Univ. California, Los Angeles, Cal.
brain..visual pathways; brain mapping; brain..mesencephalon; brain..diencephalon; brain..cerebral cortex; electrophysiology; phylogeny

NB-04579 KOELLA, WERNER P., Worcester Fdn. Exptl. Biology, Shrewbury, Mass.
brain..cerebellum; potentials..evoked potentials; brain visual pathways; eye..retina; ear..vestibular apparatus; eye movement; head movement

NB-04602 RUBIN, LIONEL F., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
color blindness; dark adaptation; day blindness; electroretinography; eye..retina; genetics

NB-04625 DAYTON, GLENN O., Jr., Sch. Med., Univ. California, Los Angeles, Cal.
eye movement; infants, human; children..preschool; visual perception; strabismus

NB-04628 AGUILAR RICO, MARIANO, Instituto de Optica, Serrano 121, Madrid, Spain
electroretinography; eye..retinal cones; eye..retinal rods; visual threshold; color vision; potentials..action potentials; photostimulus; retinal correspondence

NB-04630 HAMASAKI, DUCO I., Bascom Palmer Eye Inst., Miami, Fla.
electroretinography; ion; drugs; rhodopsin; photochemistry; eye..retina; potentials..action potentials

NB-04633 LOVELL, WILLIAM V., Route Two, Box 18, Sanford, Fla.
instrumentation; electromagnetic fields; metal; foreign body; injuries..eye injuries; cryostat; magnets

NB-04668 GLOCKLIN, VERA C., Univ. Chicago, Chicago, Ill.
carbohydrates; 1,7--bis--(p--(amino)phenoxy)heptane; toxins; eye..retina; embryology; pentose pathway; phosphogluconate

NB-04669 COLLINS, CARTER C., Presbyterian Med. Cr., Eye Research Inst., San Francisco, Cal.
instrumentation; implants; radiosonde; eye..intraocular pressure; telemetering; monitoring; diurnal variation; gas tensions; emotional reactions; drugs; primates..monkeys

NB-04671 BACH-Y-RITA, PAUL, Eye Research Inst., San Francisco, Cal.
brain..oculomotor nuclei; brain..reticular formation; brain.. visual cortex; brain lesions; eye movement; implants; muscle..extraocular muscles; nervous system..afferent nerves; potentials..evoked potentials; primates; proprioceptors; strabismus; strychnine; visual stimulus

NB-04681 BURIAN, HERMANN M., Iowa State Med. Cr., Iowa City, Iowa
conferences..international meetings; electroretinography

NB-04693 ROBERT, LESLIE, Lab. Biochimie, Cr. Recherches Allergiques, Immunologiques, Paris, France
eye..cornea; keratoplasty; stroma; glycoproteins; chemical structure; isoelectric point; binding; transplantation rejection; immune sera; immunology..antigens; n--acetylneuramic acid; radiolabeled carbon

NB-04695 SEARS, MARVIN L., Sch. Med., Yale Univ., New Haven, Conn.
retinal circulation; retinal circulatory disorders; tissue respiration; glycolysis; drugs; enzymes inhibitors

NB-04717 RIESEN, AUSTIN H., Univ. California, Riverside, Cal.
vision; sensory deprivation; eye..retina; brain.. visual cortex; ribonucleic acid; behavior; age; electrophysiology; primates..monkeys

NB-04765 MAISEL, HARRY, Col. Med., Wayne State Univ., Detroit, Mich.
cell differentiation; choline esterases; dehydrogenases.. glucose-6-phosphate dehydrogenase; dehydrogenases.. lactate dehydrogenases; eye..cornea; eye..iris; eye.. lens; eye..retina; eye..sclera; immunology..antigens; phosphatases

NB-04770 BURNS, ROBERT P., Univ. Oregon Med. Sch., Portland, Ore.
cataract; eye..lens; eye..aqueous humor; chemical structure; proteins; eye..lens opacity

NB-04774 MOSES, ROBERT A., Sch. Med., Washington Univ., St. Louis, Mo.
eye..intraocular pressure; eye..aqueous outflow; eye.. sclera; instrumentation-methodology; glaucoma; tonometry

NB-04783 KEESEY, ULKER T., Sch. Med., Univ. Wisconsin, Madison, Wis.
eye..retinal cones; eye..retinal rods; eye movement; vision; spatial perception; photostimulus; visual fixation; vision tests..flicker fusion

NB-04800 WEISKRANTZ, LAWRENCE, Sch. Natural Sci., Univ. Cambridge, Cambridge, England
brain..temporal lobe; brain..visual cortex; brain lesions; brain mapping; electrostimulus; eye..retina; learning; memory-retention; primates..Macaca Rhesus; primates.. Squirrel monkeys; visual field; visual perception

NB-04802 GANZ, LEO, Grad. Sch., Univ. California, Riverside, Cal.
nervous system..central nervous system; eye..retina; eye..fovea centralis retinae; visual field; visual threshold; discrimination; sensory deprivation; retinal flash stimulator; amblyopia

NB-04806 LUDLAM, WILLIAM M., Optometric Cr. of New York, N.Y.C
photography; myopia; biometry; eye..lens; child development; adults; children

NB-04810 MANDELL, ROBERT B., Sch. Optometry, Univ. California, Berkeley, Cal.
age; astigmatism; biomathematics; diurnal variation; eye..cornea; eye refractive errors; instrumentation-methodology; mechanical pressure

NB-04816 COHEN, ADOLPH I., Sch. Med., Washington Univ., St. Louis, Missouri
cytology; eye..retina; eye..retinal cones; eye..retinal rods; nerves..neurons; nerves..synapse; primates..monkeys

NB-04854 LANGHAM, MAURICE E., Johns Hopkins Hosp., Baltimore, Md.
antimetabolites; corneal edema; endothelium permeability; eye..cornea; eye..corneal opacity; potentials..membrane potentials; primates..monkeys; water-electrolyte balance

NB-04863 HOFSTETTER, HENRY W., Col. Arts, Sci., Indiana Univ., Bloomington, Ind.
eye..cornea; astigmatism; genetics; computer analysis

NB-04866 KUCK, JOHN F.R., Jr., Sch. Med., Emory Univ., Atlanta, Ga.
D--glucitol; galactitol; diabetes; eye..lens; cataract; NAD; hexose phosphates; diet; metabolites; aging; triparanol; cholesterol; galactose

NB-04875 REUBEN, RICHARD N., New York Univ. Med. Cr., N. Y. C.
brain..visual cortex; brain damage; vision; infants (human)..newborn; eye..retina; eye movement; eye disorders; dark adaptation; potentials..evoked potentials; age; drugs; arousal

NB-04886 ONLEY, JUDITH W., Col. Arts., Sci., Univ. Rochester, Rochester, New York
psychophysics; visual perception; color vision; psychophysiology

NB-04888 HOLLAND, MONTE G., Sch. Med., Tulane Univ., New Orleans, La.
diagnostic tests; electroretinography; eye..retina; eye disorders; photocoagulation; photostimulus; potentials.. evoked potentials; primates..monkeys

NB-04896 COPENHAVER, RICHARD M., J. Hillis Miller Hlth. Cr., Gainesville, Fla.
brain..visual cortex; potentials..evoked potentials; photostimulus; eye..retina; visual field; psychophysics; dark adaption; color vision; vision tests..flicker fusion; computer analysis

NB-04898 McCOLLOUGH, CELESTE, Col. Liberal Arts, Oberlin Col., Oberlin, Ohio
brain..motor cortex; color vision; interocular transfer; optical acids..prism spectacles; spatial perception; visual perception

NB-04935 LIEBMAN, PAUL A., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
cell components..mitochondria; eye..retinal cones; eye.. retinal rods; membrane permeability; molecular shape; photobiology; retinene

NB-04936 MILLER, JAMES E., Albany Med. Col., Union Univ., Albany, N.Y.
electromyography; muscle..extraocular muscles; eye movement; electrodes..microelectrodes; potentials; photostimulus; training; eye..aqueous humor

NB-04951 PINNEO, LAWRENCE R., Tulane Univ., New Orleans, La.
visual perception; visual threshold; potentials..evoked potentials; eye..retina; brain..visual pathway; learning; psychophysics; implants; vision tests..flicker fusion; primates..monkeys

NB-04974 MEIKLE, THOMAS H., Jr., Cornell Univ. Med. Col., N.Y.C.
brain lesions; interocular transfer; brain..brain stem; brain..colliculus superior; brain..geniculate body lateral; memory-retention; photostimulus; discrimination; learning

NB-04977 CENTIFANTO, YOLINA, Sch. Med., Univ. Florida, Gainesville, Fla.
uveitis; bacteria; viruses; parasites; hypersensitivity; therapy

NB-04987 JACOBSON, JERRY H., Cornell Univ. Med. Col., N.Y.C.
diagnostic tests; electroretinography; eye disorders; ophthalmology

NB-05000 TROKEL, STEPHEN L., Col. Phys., Surg., Columbia Univ., New York, N.Y.
retinal circulation; eye..intraocular pressure; eye..fundus oculi; eye..choroid; blood volume; blood flow; blood pressure

NB-05001 HAYES, WILLIAM N., Col. Arts, Sci., State Univ., New York, Buffalo, N. Y.
brain..visual cortex; brain..visual pathways; brain ..visual tectum; nervous system..optic nerve; brain lesions; electrostimulus; color vision; nerve impulse transmission; potentials..evoked potentials; single cell analysis; reptiles

NB-05004 MELLO, NANCY K., Massachusetts General Hosp., Boston, Mass.
brain..visual tectum; brain..commissures (cerebral unspecified); learning; memory-retention; visual perception; potentials..evoked potentials; brain lesions; electrostimulus; visual stimulus; interocular transfer

NB-05010 MUIRHEAD, J. FRASER, Univ. California Med. Cr., San Francisco, Cal.
phenothiazine; eye..retina; retinopathy; toxins; rhodopsin; vitamin A; oxidoreductases..alcohol dehydrogenase; dark adaptation; membrane permeability and transport; thioridazine; chlorpromazine

(contd)

VISUAL SCIENCES (CONTD)

NB-05037 ROBBINS, JAMES E., Col. Med., Univ. Florida, Gainesville, Fla.
eye..cornea; tissue preservation; keratoplasty; endothelium; oxioreductases; staining; freezing; dimethyl sulfoxide; glycerin; eye bank

NB-05051 NORTON, EDWARD W.D., Bascom Palmer Eye Inst., Miami, Fla.
cerebrovascular disorders; diagnostic tests; eye..fundus oculi; eye disorders; fluorescein; instrumentation-methodology; nervous system..optic nerve; primates.. marmoset; retinal circulation

NB-05053 KERN, HAROLD L., Albert Einstein Col. Med., Yeshiva Univ., N.Y.C.
eye..lens; ion..cation; amino acid; glycolysis; sodium; potassium; membrane permeability; metabolites; ouabain; hydroxyproline; radiolabeled rubidium; radiolabeled potassium; radiolabeled carbon; proline

NB-05059 HENKIND, PAUL, New York Univ. Med. Cr., New York, N.Y.
eye..retina; diabetic retinopathy; retinal circulatory disorders; arteriosclerosis; exudates; hemostasis; hypoxia; lipids; eye disorders

NB-05075 KESTON, ALBERT S., Inst. Med. Res. and Studies, N.Y.C.
enzymes inhibitors; isomerases..mutarotase; cataract; eye..lens; eye..retina; glucose; diabetes; chemical structure; enzymes substrate; diet; inositol; isoelectric point; membrane permeability

NB-05076 HANNA, CALVIN, Univ. Arkansas Med. Cr., Little Rock, Ark.
cell migration; eye..cornea; injury..wound healing; deoxyribonucleic acid; ribonucleic acid; proteins; antimetabolites; transplantation..homotransplantation; viruses.. herpes simplex virus; tritium; hydrocortisone

NB-05085 WOOD, DON C., Providence Hosp., Portland, Ore.
adrenal cortex hormones; cataract; eye..lens; proteins; dosage; dimethyl sulfoxide

NB-05088 BISHOP, HAROLD P., Tufts Univ., Medford, Mass.
color vision; psychophysics; form perception; vision tests; criteria

NB-05090 SIAS, FRED R., JR., Univ. Mississippi Med. Cr., Jackson, Miss.
eye..retina; photostimulus; biomathematics; nerve impulse transmission; potentials..evoked potentials; nervous system..optic nerve; single cell analysis; primates..monkeys

NB-05098 LAWRENCE, CARTERET, Pacific Northwest Res. Fdn., Seattle, Wash.
cerebroarterial occlusions extracranial; arteries carotid arteries; blood collateral circulation; blood flow; diagnostic tests; eye..intraocular pressure; pulse pressure waves; endartectomy; arteries, ophthalmic artery

NB-05135 BEHRENDT, THOMAS, Jefferson Med. Col., Philadelphia, Pa.
eye..retina; retinal circulation; retinopathy; diagnostic tests; instrumentation-methodology; photography; vascular disorders; staining; eye disorders

NB-05145 HARRIS, JOHN E., Univ. Minnesota Med. Sch., Minneapolis, Minn.
conferences; eye..lens; metabolism; cataract; ophthalmology; travel

NB-05147 VON NOORDEN, GUNTER K., Johns Hopkins Hosp., Baltimore, Md.
amblyopia; brain..visual cortex; eye..retina; pleoptics; sensory mechanisms; strabismus

NB-05176 PEARLMAN, JEROME T., Col. Med., State Univ. Iowa, Iowa City, Iowa
thyroid gland disorders; eye..retina; vitamin A; thyroid hormones; thyroid function; triiodothyronine; antithyroid compounds; light adaptation; drugs interaction

NB-05185 THOMAS, JAMES P., Col. Letters, Sci., Univ. California, Los Angeles, Cal.
visual perception; visual threshold; eye..retina; photostimulus; nerve impulse transmission; psychophysics; adults

NB-05186 TROUTMAN, RICHARD C., State Univ. New York Downstate Med. Cr., Brooklyn, N.Y.
antibiotics; chemotherapy; diagnostic tests; eye..anterior chamber; eye..conjunctiva; eye..cornea; eye disorders; mycoses; training

NB-05214 STRAATSMA, BRADLEY R., Univ. California Center Hlth. Sci., Los Angles, Cal.
mucopolysaccharides; retinal detachment; eye.. retina; eye..retinal rods; eye..retinal cones; epithelium; binding; chemical structure; vitamin A; retinitis pigmentosa; enzymes

NB-05215 BARLOW, HORACE B., Sch. Optometry, Univ. California, Berkeley, Cal.
eye..retinal ganglion; photostimulus; movement perception; visual perception; coding; psychophysics; primates.. monkeys

NB-05224 SCHWARTZ, BERNARD, Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
adrenal cortex hormones; eye disorders; eye..intraocular pressure; drugs tolerance; mucopolysaccharides; glaucoma; cataract; diabetes; genetics; family

NB-05226 THOMAS, CHARLES I., Sch. Med., Western Reserve Univ., Cleveland, Ohio
eye..ciliary body; eye..trabecular meshwork; enzymes; cytochrome C; nucleotides; binding; drugs; metabolites; cyanides; ultraviolet rays; iron; immunology..antibodies; tritium; epinephrine

NB-05249 MILLER, NORMA D., Sch. Optometry, Ohio State Univ., Columbus, Ohio
retinal directional brightness sensitivity; psychophysics; dielectric constants; photoreceptors; photostimulus; eye..retina; phantom models; computer analysis; visual threshold

NB-05253 KOENIC, EDWARD, State Univ. New York, Buffalo, N.Y.
vision; eye..retina; cell differentiation; ribonucleic acid; retinitis pigmentosa; congenital abnormalities; genetic strains; infant animals; age; molecular shape; dark adaptation; tritium; primates..monkeys

NB-05256 WILLIAMS, THEODORE P., Brown Univ., Providence, R.I.
rhodopsin; eye..retina; potentials..evoked potentials; isomers, cis-trans isomerization; sensory mechanisms; photochemistry

NB-05260 BARTLEY, S. HOWARD, Michigan State Univ., East Lansing, Mich.
color vision; color blindness; visual threshold; photostimulus; eye..retina

NB-05271 SUTTON, DWIGHT, Arizona State Univ., Tempe, Arizona
brain..visual cortex; brain mapping; electrophysiology; visual field; visual perception; sensory deprivation; infants, animal; behavior

NB-05302 WARNER, LOUISE, Sch. Med., Dent., Georgetown Univ., Washington, D.C.
eye..choroid; retinal circulation; capillaries; microcirculation; dyes; drugs; eye disorders

NB-05303 JAMPOLSKY, ARTHUR, Inst. Med. Sciences, San Francisco, Cal.
eye movement; therapy; strabismus; instrumentation-methodology; proprioceptors; muscles..extraocular muscles

NB-05336 DOWLING, JOHN E., Sch. Med., John Hopkins Univ., Baltimore, Md.
eye, retinal cones; eye, retinal ganglion; pupillary reflex; visual pigments; vitamin A; potentials..evoked potentials; dark adaptation; chemical structure; single cell analysis; vision; eye disorders; dietary deficiency

NB-05338 PICO, GUILLERMO, Sch. Med., Univ. Puerto Rico, San Juan, P.R.
electromyography; muscles..extraocular muscles; nerve impulse inhibition; nerves..motor neurons; brain lesions; brain..brain stem; strabismus; nystagmus; diagnostic tests

NB-05342 KRILL, ALEX E., Sch. Med., Univ. Chicago, Chicago, Ill.
eye disorders; eye..retina; sex difference; genetics.. heterozygotes; genetics, sex chromosomes; vision tests; laboratory facilities

NB-05356 ZADUNAISKY, JOSE, Sch. Med., Univ. Louisville, Louisville, Ky.
blood--aqueous barrier; blood--vitreous barrier; blood--brain barrier; cerebrospinal fluid; ion exchange and transport; osmotic pressure; eye..retina; body fluids; radiolabeled carbon; radiolabeled sulfur

NB-05360 HORENSTEIN, SIMON, Highland View Hosp., Cleveland, Ohio
hemianopsia; visual field; visual perception; eye movement; visual stimulus; brain lesions; eye disorders; sensory mechanisms; brain..motor cortex; brain..cerebrum

NB-05366 SILVERSTEIN, ARTHUR M., Sch. Med., The Johns Hopkins Univ., Baltimore, Maryland
uveitis; immunology..antibodies; hypersensitivity; eye..uvea; eye..vitreous body; lymph nodes; cell differentiation; radiation effects; tritium; radiolabeled carbon

NB-05404 WITKOVSKY, PAUL, Eye Institute, New York, N.Y.
eye..retinal ganglion; nerves..neurons; nerves.. neuroglia; electrophysiology; photostimulus; carbon dioxide; gas tensions; hydrogen--ion concentration; metabolites; nerve impulse transmission

NB-05416 HILL, RICHARD M., Sch. Optometry, Ohio State Univ., Columbus, Ohio
brain..colliculus superior; brain mapping; brain lesions; single cell analysis; potentials..evoked potentials; vision; photostimulus; visual threshold; nerve impulse transmission

NB-05425 ROTHSTEIN, HOWARD, Col. Arts, Sci., Univ. Vermont, Burlington, Vt.
injuries..wound healing; eye..lens; epithelium; deoxyribonucleic acid; cell division..mitosis; cell migration; temperature; tritium; radiolabeled carbon; colchicine; puromycin; actinomycin D; p--fluorophenylalanine

NB-05450 BEEHLER, CECIL C., Bowman Gray Sch. Med., Winston-Salem, N.C.
oxygen tension; hyperoxia; eye disorders; mucopolysaccharides; eye..aqueous humor; eye.. vitreous body; retinal detachment; retrolental fibroplasia; conjunctivitis

NB-05451 McEWEN, WILLIAM K., Francis I. Proctor Fdn. Res. Ophthalmology, Univ. California Med. Cr., San Francisco, Cal.
eye..sclera; eye..aqueous outflow; eye..intraocular pressure; viscoelasticity; collagen; instrumentation--methodology; glaucoma

NB-05459 YOUNG, FRANCIS A., Primate Res. Cr., Washington State Univ., Pullman, Wash.
growth; environment; eye accomodation; eye refractive disorders; eye..cornea; eye..anterior chamber; eye..vitreous body; primates..monkeys

NB-05460 SMITH, STANLEY W., Ohio State Univ. Res. Fdn., Columbus, Ohio
vision; noise; visual threshold discrimination; psychophysics

NB-05475 KING, JOHN F., Ocular Research Unit, Washington Hospital Cr., Washington, D.C.
eye..cornea; endothelium; keratoplasty; eye banks; temperature; ion exchange and transport

NB-05487 RIPPS, HARRIS, New York Univ. Med. Cr., N.Y.C.
visual pigments; eye..retinal cones; nerve impulse transmission; potentials, evoked potentials; dark adaptation; color blindness; photoconduction

NB-05488 HEDGES, THOMAS R., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
intracranial pressure; brain edema; brain..visual pathways; endothelium permeability and transport; blood flow; radiolabeled chromium; radiolabeled iodine; primates..monkeys; papilledema

NB-05506 SPRAGUE, JAMES M., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
brain..cerebral cortex; brain..mesencephalon; brain lesions; brain mapping; sensory mechanisms; visual perception; discrimination; electrophysiology

NB-05528 WIST, EUGENE R., Franklin and Marshall Col., Lancaster, Pa.
visual perception; visual feedback; visual stimulus; vision tests..flicker fusion; dark adaptation; psychophysics; depth perception; adults

NB-05547 LINCOFF, HARVEY A., Col. Med., Cornell Univ., New York, N.Y.
eye surgery; hypothermia; instrumentation--methodology; eye disorders; retinal detachment; glaucoma; eye..ciliary body; freezing

NB-05550 KAYES, JACK, Washington Univ., St. Louis, Mo.
electron microscopy; eye..trabecular meshwork; gamma globulin; collagen; endothelium; glaucoma

NB-05554 WIESEL, TORSTEN N., Harvard Med. Sch., Boston, Mass.
brain..visual cortex; growth; sensory deprivation; visual perception; eye..retina; amblyopia; infant animals; primates..monkeys; electrophysiology; behavior

NB-05556 BURKE, WILLIAM, Univ. Sydney, Sidney, New South Wales, Australia
nervous system..optic nerve; nerves..synapses; eye..retinal bipolar neurons; brain..geniculate body lateral; potentials..evoked potentials; sleep; drugs; electrostimulus; dark adaptation

NB-05564 FRIEDMAN, EPHRAIM, Howe Lab. Ophthalmology, Boston, Mass.
blood flow; eye..choroid; eye..intraocular pressure; arteries..retinal arteries; radiolabeled krypton; arterial infusions; oxygen consumption; nutrients; eye circulation disorders; primates..monkeys

NB-05569 HOREL, JAMES A., Col. Med., Univ. Florida, Gainesville, Fla.
brain..visual cortex; brain..diencephalon; brain lesions; visual perception; discrimination; spreading depression; memory--retention; nerves degeneration..axon reaction; nerves..dendrites; photostimulus; regeneration

NB-05575 McTIGUE, JOHN W., George Washington Univ. Hosp., Washington, D.C.
eye..cornea; electron microscopy; injuries..wound healing; keratoplasty; eye disorders; fibroblasts; epithelium; endothelium; tissue preservation

NB-05576 KAPPAUF, WILLIAM E., Col. Liberal Arts, Sci., Univ. Illinois, Urbana, Ill.
visual perception; eye..retina; color vision; visual fixation; photostimulus; psychophysics; computer programming; adults

NB-05628 KAMPA, ELIZABETH M., Univ. California, San Diego, La Jolla, Cal.
crustaceans; eye; visual pigments; photoreceptors; dark adaptation; electrophysiology

NB-05641 RUEDEMANN, ALBERT D., Kresge Eye Inst., Detroit, Mich.
eye..cornea; eye..sclera; instrumentation; birefringence; diagnostic tests; biological models; elasticity; glaucoma; keratoplasty; cataract

NB-05652 KUPFER, CARL, Massachusetts Eye, Ear Infirmary, Boston, Mass.
brain..geniculate body lateral; nerves..neurons; nerves..neuroglia; nerves..denervation; vision; sensory deprivation; proteins; amblyopia; infant animals..newborn; primates..baboons

NB-05653 HILL, RICHARD M., Sch. Optometry, Ohio State Univ., Columbus, Ohio
color vision; electrophysiology; single cell analysis; brain..geniculate body lateral; brain..peduncular tract (transverse); brain..colliculus superior; brain..pretectal region; brain..visual cortex; eye..retina; movement perception; brain..visual pathways; brain mapping; eye..retinal ganglion

NB-05704 JACOBSON, JERRY H., Cornell Univ. Med. Col., New York, N.Y.
computer; electroretinography; nervous system..optic nerve; electrophysiology; nerve impulse transmission.. efferent impulses

NB-05730 MILLER, WILLIAM H., Sch. Med., Yale Univ., New Haven, Conn.
eye; eye..compound eye; ganglion, nervous system; nervous system..optic nerve; nerves.. neurons; single cell analysis; nerve impulse transmission; photostimulus; visual fields

NB-05756 PURPLE, RICHARD L., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
eye..retinal bipolar neurons; eye..compound eye; single cell analysis; membrane permeability and transport; nerve impulse transmission; potentials.. action potentials; ions

NB-05887 BERMAN, ELAINE R., Hadassah Univ. Hosp., Jerusalem, Israel
eye..cornea; eye..retina; eye..vitreous body; stroma; ground substance; mucopolysaccharides; proteins; glycoproteins; hyaluronic acid

NB-05891 BINGGELI, RICHARD L., Sch. Med., Univ. Southern California, Los Angeles, Cal.
electrophysiology; brain..visual tectum; eye.. retinal ganglion; visual perception; phylogeny; interhemispheric transfer; brain lesions; brain mapping; potentials..evoked potentials; photostimulus

NB-05895 SAFIR, ARAN, Mt. Sinai Hosp., New York, N.Y.
eye..retina; vision tests; color blindness; amblyopia; aphakia; photosensitivity; retinal directional brightness sensitivity

NB-05896 SAFIR, ARAN, Mt. Sinai Hosp., New York, N.Y.
eye..intraocular pressure; eye..sclera; diabetic retinopathy; diabetes; children; age; glaucoma; visual field; diagnostic tests; water loading

NB-05914 JOYCE, EUGENE, Bascom Palmer Eye Inst., Miami, Fla.
arteries..ophthalmic artery; blood flow; eye.. intraocular pressure; implants; radioisotopes.. krypton 85; glaucoma

NB-05992 CRONLY-DILLON, JOHN R., Sch. Med., Univ. Edinburgh, Edinburgh, United Kingdom
vision tests; form perception; electrophysiology; eye.. retinal ganglion; brain..visual pathways; brain lesions; brain..visual tectum; photosensitivity; color vision; brain..geniculate body lateral; discrimination; behavior

NB-06027 NOELL, WERNER K., Sch. Med., State Univ. New York, Buffalo, N.Y.
photosensitivity; genetic strains; eye..retina; body temperature; nutrition; anesthesia; hyperoxia; iodoacetates; lipid peroxides; oxidants; retinitis pigmentosa; radiation effects; radiation protection drugs

NB-06032 FLEMING, DAVID G., Case Inst. Tech., Cleveland, Ohio
eye movements; vision; neuromuscular system; nystagmus; body position

NB-06035 BALDWIN, WILLIAM R., Col. Optometry, Pacific Univ., Forest Grove, Ore.
myopia; optical aids..prism spectacles; children; eye..cornea

NB-06077 STONE, WILLIAM, Jr., Cedars-Sinai Med. Cr., Los Angeles, Cal.
glaucoma; eye surgery; eye..aqueous outflow; implants; eye prosthesis; primates..monkeys; proteases; injury.. wound healing; plastics

NB-06078 STONE, WILLIAM, Jr., Cedars-Sinai Med. Cr., Los Angeles, Cal.
plastics; implants; optical aids; eye; polymerization; surface properties; membrane permeability; histocompatibility; chemical structure; synthesis

NB-06281 STONE, WILLIAM, Jr., Cedars-Sinai Med. Cr., Los Angeles, Cal.
implants; eye surgery; plastics; eye prosthesis; eye.. corneal opacity; keratoplasty; primates..monkeys

NB-06284 FRIEDMAN, EPHRAIM, Boston Univ. Med. Cr., Boston, Mass.
microcirculation; retinal circulation

NB-06304 GIBSON, ROBERT H., Univ. Pittsburgh, Pittsburgh, Pa.
communication; electrostimulus; skin; somesthesis; touch; sensory mechanisms; psychophysics; pain; body temperature

RH-00345 GREEN, MORRIS, Hunter Col., New York, N.Y.
proteins; eye..lens; eye..lens opacity; radiation effects; amino acid; peptides; albuminoids; radiolabeled; membrane permeability and transport; proteases

INTERDISCIPLINARY

AC-00136 ROZE, JANIS A., American Museum of Natural History, New York, N.Y.
publications..monograph; reptiles; taxonomy; ecology, animal; venoms; geographical sites..United States; geographical sites..Latin America

AC-00151 GANS, CARL, Col. Arts, Sci., State Univ. New York, Buffalo, N.Y.
feeding; head; poison gland; venoms

AC-00196 HUELKE, DONAL F., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
injuries..wounds; bone fractures

AI-03714 EARLE, DAVID P., Sch. Med., Northwestern Univ., Chicago, Ill.
blood circulation dynamics; heart function; influenza; peripheral vascular system; pulmonary function; respiratory diseases..acute respiratory diseases

(contd)

INTERDISCIPLINARY (CONTD)

AI-03919 SASLAW, SAMUEL A., Sch. Med., Ohio State Univ., Columbus, Ohio
vaccines..influenza virus vaccines; chronic disease; aging; serology; immunology..anitbodies; aerosols; airborne infections; primates..monkeys; viruses.. influenza viruses

AI-04152 TALMAGE, DAVID W., Univ. Colorado Med. Cr., Denver, Colo.
research programs; hypersensitivity; immunology; infectious diseases; training; research potential; transplantation.. organ transplantation

AI-04161 SCHAEFFER, MORRIS, Pub. Hlth. Res. Inst., New York, N.Y.
research programs; viruses..adenoviruses; biological compounds preparation; typing sera; diagnostic tests

AI-04636 MURRAY, JOSEPH E., Harvard Univ., Cambridge, Mass.
research programs; transplantation, organ transplantation; transplantation rejection; histocompatibility; drugs; chemical structure--biological activity; radiation effects.. whole body radiation; immunology..antibodies; cell components..microsomes; lymphatic tissue; hematology

AI-04938 REEVES, WILLIAM C., Sch. Pub. Hlth., Univ. California, Berkeley, Cal.
publications..catalogs; viruses..arthropod--borne viruses (unspecified); publications..literature survey; virus diseases; geographical sites; chemical structure--biological activity; immunology..antigens

AI-04997 EASTERDAY, BERNARD C., Col. Agr., Univ. Wisconsin, Madison, Wis.
aerosols; cardiovascular diseases; complement-fixation tests; hemagglutination inhibition; influenza; ruminants; zoonoses

AI-05358 STEINHAUS, EDWARD A., Col. Arts, Letters, Sci., Univ. California, Irvine, Cal.
research programs; invertebrates; bacterial diseases; virus diseases; injury; metabolic diseases; epizootiology; diagnostic tests; neoplasms; genetics; congenital abnormalities

AI-05504 BOND, JAMES O., Encephalitis Res. Cr., Florida State Bd. Health, Tampa, Fla.
longitudinal study; viruses..St. Louis encephalitis virus; epidemiology; epizootiology; population dynamics, animal; disease transmission; serology; birds; mammal; mosquitoes; insects control

AI-06251 SNYDER, JOHN C., Harvard Sch. Public Hlth., Boston, Mass.
research programs; trachoma, ocular; conjunctivitis.. inclusion conjunctivitis; viruses..trachoma virus; eye disorders; vaccines..viral vaccines; viruses.. adenoviruses; bacterial diseases; infant human; children; epidemiology; preventive medicine; immunology; diagnostic tests; hypersensitivity; geographical sites

AI-06571 SPIZIZEN, JOHN, Scripps Clinic, Res. Fdn., La Jolla, Cal.
research programs; microbiology; research facilities; genetics; genetic mapping; nucleic acids; cell differentiation; spores; cell components..cell wall; viruses..bacteriophage; virus diseases; neoplasms; bacteria..Bacillus; bacteria..Bacillus subtilis; bacteria..Bacillus licheniformis; bacteria..Bacillus cereus; bacteria..Escherichia coli; bacteria..Mycoplasma; bacteriocins; Krebs cycle; dehydratases.. tryptophan synthetase; drugs resistance

AM-00002 WINTROBE, M.M., Sch. Med., Univ. Utah, Salt Lake City, Utah.
adrenal cortex hormones; chemical structure--biological activity; congenital abnormalities; enzymes; genetics; hyperuricemia; longitudinal study; metabolic diseases; muscular dystrophy; myoglobin; proteins

AM-00566 THORSON, RALPH E., Univ. Notre Dame, Notre Dame, Ind.
carcinogenesis; diet; germ-free; growth; immunology; immunology..antigens; radiation effects; reproduction

AM-02456 WILLIAMS, ROBERT H., Sch. Med., Univ. Washington, Seattle, Wash.
diabetes; lipases..lipoprotein lipase; insulin inhibitors; lipolysis; insulin; lipids; research programs

AM-03548 LAZAROW, ARNOLD, American Diabetes Assn., New York, N.Y.
documentation systems; diabetes; computer programming

AM-04401 KNOWLES, HARVEY C., Jr., Col. Med., Univ. Cincinnati, Cincinnati, Ohio
cooperative study; diabetes; therapy; tolbutamide; insulin; longitudinal study; diet

AM-04403 PROUT, THADDEUS E., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
cooperative study; diabetes; diet; ethnic groups; geographical sites; insulin; therapy; tolbutamide

AM-04412 GOETZ, FREDERICK C., University Hosp., Minneapolis, Minn.
cooperative study; diabetes; diet; insulin; longitudinal study; therapy; tolbutamide

AM-04495 FIELD, RICHARD A., Massachusetts Gen. Hosp., Boston, Mass.
cooperative study; diabetes; insulin; therapy; tolbutamide

AM-04923 SHWACHMAN, HARRY, Children's Hosp. Med. Cr., Boston, Mass.
conferences..international meetings; pancreatic cystic fibrosis; genetics; immunology; exocrine glands; nutrition

AM-05422 MILLER, MAX, University Hosps., Cleveland, Ohio
cooperative study; insulin; tolbutamine; diet; diabetes; vascular disorders; therapy

AM-05524 ZIERLER, KENNETH L., Johns Hopkins Hosp., Baltimore, Md.
performance; nervous system..oculomotor nerve; muscles..skeletal muscle; cardiovascular system; respiratory system; hormones; neuromuscular function; joints; membrane permeability and transport; blood flow; computer simulation; electrophysiology; neuromuscular disorders

AM-05648 GOLDNER, MARTIN G., Jewish Hosp. Brooklyn, Brooklyn, N.Y.
carbohydrates; cooperative study; diabetes; diagnostic tests; diet; insulin; longitudinal study; therapy; tolbutamide

AM-06041 BYARS, EDWARD F., Sch. Eng., West Virginia Univ., Morgantown, W.Va.
bone..femur; age; tensile strength; viscoelasticity; sex difference; osteoporosis; blood vessels; cytology; ethnic groups..race

AM-06049 LAZAROW, ARNOLD, Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
documentation systems; diabetes; cooperative study; computer analysis

AM-06399 NEWILL, VAUN A., Sch. Med., Western Reserve Univ., Cleveland, Ohio
computer analysis; cooperative study; diabetes; documentation systems

AM-06495 IZZO, JOSEPH L., Sch. Med., Dent. Univ. Rochester, Rochester, N.Y.
computer analysis; cooperative study; diabetes; documentation systems

AM-06737 RECANT, LILLIAN, Sch. Med., Washington Univ., St. Louis, Mo.
cooperative study; diabetes; diabetic neuropathy; diabetic retinopathy; diet; glucose tolerance; heart diseases; insulin; kidney disorders; longitudinal study; therapy; tolbutamide; vascular disorders

AM-06739 SCHWARTZ, THEODORE B., Presby-St. Luke's Hosp., Chicago, Ill.
cooperative study; diabetes; diabetic neuropathy; diabetic retinopathy; diet; glucose tolerance; heart diseases; insulin; kidney disorders; longitudinal study; therapy; tolbutamide; vascular disorders

AM-06744 BOSHELL, BURIS R., Univ. Alabama Med. Cr., Birmingham, Alabama
cooperative study; diabetes; diabetic neuropathy; diabetic retinopathy; diet; glucose tolerance; heart diseases; insulin; kidney disorders; longitudinal study; therapy; tolbutamide; vascular disorders

AM-06876 KLIMT, CHRISTIAN R., Sch. Med., Univ. Maryland, Baltimore, Md.
diabetes; therapy; diet; tolbutamide; insulin; diabetic retinopathy; vascular disorders; nervous system disorders; longitudinal study; cooperative study; kidney disorders; phenethylbiguanide

AM-07538 HIGHTOWER, NICHOLAS C., Jr., Scott and White Memorial Hosp., Temple, Texas
cooperative study; gastric hypothermia; intestines.. duodenum; peptic ulcer; therapy evaluation

AM-07539 McHARDY, GORDON, Sch. Med., Louisiana State Univ., New Orleans, La.
cooperative study; gastric hypothermia; intestines.. duodenum; peptic ulcer; therapy evaluation

AM-07540 GRIZZLE, JAMES E., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.
peptic ulcer; gastrointestinal system; gastric freezing; criteria

AM-07541 FERGUSON, DONALD J., Univ. Chicago, Chicago, Ill.
gastrointestinal system; radiation therapy; x-rays; gastric pouch; acid; proteases..pepsin; cell death; gastric freezing

AM-07542 KIRSNER, JOSEPH B., Sch. Med., Univ. Chicago, Chicago, Ill.
cooperative study; gastric hypothermia; intestines.. duodenum; peptic ulcer; therapy

AM-07543 SCOTT, H. WILLIAM, Jr., Vanderbilt Univ. Hosp., Nashville, Tenn.
cooperative study; gastric hypothermia; intestines.. duodenum; peptic ulcer; therapy evaluation

AM-07549 RUFFIN, JULIAN M., Duke Univ. Med. Cr., Durham, N.C.
peptic ulcer; intestines..duodenum; gastric hypothermia; therapy evaluation; cooperative study

AM-07562 SHINGLETON, WILLIAM W., Duke Univ. Med. Cr., Durham, N.C.
gastric freezing; peptic ulcer; instrumentation-methodology; mucous membrane; gastrointestinal hormones; gastrointestinal neoplasms

AM-07601 VILLAVICENCIO-SUAREZ, ELENA, Sch. Med., Univ. Puerto Rico, San Juan, Puerto Rico
cooperative study; diabetes; diet; insulin; longitudinal study; phenethylbiguanide; therapy; tolbutamide

AM-07624 McHARDY, GORDON, Sch. Med., Louisiana State Univ., New Orleans, La.
gastrointestinal disorders; therapy; peptic ulcer; blood flow; heart function; pulmonary function; kidney function; adrenal glands; monitoring; instrumentation-methodology; gastric hypothermia

AM-07854 CAMPTON, JOSEPH H., Virginia Mason Fdn., Seattle, Wash.
cooperative study; diabetes; diet; insulin; longitudinal study; therapy; tolbutamide

AM-07932 HIGHTOWER, NICHOLAS C., Jr., Scott and White Mem. Hosp., Temple, Texas
gastrointestinal disorders; gastric ulcer; gastric freezing; instrumentation--methodology

AM-[illegible]9838 LIDDLE, GRANT W., Vanderbilt Univ. Sch. Med., Nashville, Tenn.
conferences; diabetes; endocrinology; research potential; training; education..postgraduate education

AM-09051 BRIN, MYRON, Upstate Med. Cr., Univ. New York, Syracuse, N.Y.
conferences..international meetings; lactates; isomers; stereochemistry

AM-09066 BEST, CHARLES H., Univ. Toronto, Toronto, Ontario, Canada
conferences..international meetings; diabetes

AM-09113 JONES, CHARLES A., Mem. Med. Cr., Williamson, W.Va.
diabetes; insulin; tolbutamine; diet; metabolic diseases; cooperative study; therapy

AM-09405 POLLEY, HOWARD F., Mayo Clinic, Rochester, Minn.
conferences..international meetings; rheumatic diseases; travel; geographical sites..Argentina

AM-09431 MONTAGNA, WILLIAM, Oregon Regional Primate Res. Cr., Beaverton, Ore.
conferences; biology; skin; publications

AP-00045 SPICER, WILLIAM S., Jr., Sch. Med., Univ. Maryland, Baltimore, Md.
air sampling; bronchitis; climate; chronic disease; diurnal variation; infectious diseases; pulmonary function

AP-00091 CERMAK, JACK E., Col. Eng., Colorado State Univ., Fort Collins, Colo.
air pollution; air flow, meteorology; diffusion; gases; wind tunnel; stress; temperature; mathematical models; surface properties

AP-00214 PAUL, WILLIAM H., Oregon State Univ., Corvallis, Oregon
nitrogen oxides; combustion exhausts; afterburners

AP-00257 MITCHELL, ROGER S., Sch. Med., Univ. Colorado, Denver, Colo.
conferences; hypoxia; oxygen tension; atmospheric pressure; hypocapnia; hypercapnia

AP-00263 MYERS, PHILLIP S., Univ. Wisconsin, Madison, Wis.
air pollution; combustion exhausts; temperature; cooperative study; sanitary engineering

AP-00281 FRANK, SIDNEY R., Aerometric Res. Fdn., Goleta, Cal.
air pollution; coastal waters; atmosphere; diffusion; air flow (meteorology)

AP-00285 KERR, RAYMOND E., Jr., Aerophysics Res. Fdn., Goleta, Cal.
air pollution; air sampling; atmosphere; climate..humidity; survey

AP-00292 YATES, WESLEY E., Col. Agr., Univ. California, Davis, Cal.
air flow (meteorology); air pollution; diurnal variation; geographical sites..California

AP-00328 DAVIDSON, BEN, Col. Eng., New York Univ., N.Y.C.
research programs; mathematical models; air pollution; atmosphere; prediction; computer analysis; sulfur dioxide; combustion exhausts; carbon monoxide; cyclic functions; geographical sites..New York; diffusion

AP-00335 NEWSTEIN, HERMAN, Drexel Inst. Tech., Philadelphia, Pa.
air sampling; air pollution; instrumentation--methodology; sulfur dioxide; nitrogen oxides; carbon dioxide; carbon monoxide

AP-00339 ARCH, ARNOLD, Air Pollution Control Assn., Pittsburgh, Pa.
air pollution; conferences..international meetings; information exchange; travel

AP-00359 MacCREADY, PAUL B., Jr., Atmospheric Res. Group, Altadena, Cal.
diffusion; aerosols; atmosphere; air flow (meteorology); particle size; mathematical models; air pollution; air sampling

AP-00362 MILLER, CALIXTUS, Sch. Eng., Manhattan Col., Bronx, N.Y.
liquid flow; cell components..ciliary movement; instrumentation--methodology; bronchial mucus; respiratory system

AP-00365 BOLT, JAY A., Univ. Michigan, Ann Arbor, Mich.
air pollution; hydrocarbons; combustion exhausts; temperature; atmospheric pressure; air flow (meteorology); instrumentation--methodology; aerosols

AP-00366 MIRSKY, WILLIAM, Col. Eng., Univ. Michigan, Ann Arbor, Mich.
combustion exhausts; hydrocarbons; gases; instrumentation--methodology; aerosols

AP-00380 HEWSON, E. WENDELL, Col. Eng., Univ. Michigan, Ann Arbor, Mich.
air pollution; atmosphere; air flow (meteorology); geographical sites..Great Lakes region; instrumentation--methodology; mathematical models

AP-00393 RICH, SAUL, Connecticut Agr. Expt. Station, New Haven, Conn.
air pollution; ozone; plants; injuries; plants diseases; membrane permeability and transport; sulfhydryls; lipoproteins

AP-00397 ESSENHIGH, ROBERT H., Col. Mineral Ind., Pennsylvania State Univ., University Park, Cal.
research programs; incinerators, domestic; waste disposal; industrial wastes; air pollution; instrumentation--methodology

AP-00401 BARRETT, EARL W., Northwestern Univ., Evanston, Ill.
air pollution; atmosphere; particle size; air flow (meteorology); lasers; instrumentation--methodology

AP-00403 CROSSAN, D.F., Sch. Agr., Univ. Delaware, Newark, Del.
air pollution; geographical sites..Delaware; toxicology; plants; bioassay; industrial wastes; socioenvironment..urban areas; organic compounds; chemical structure--biological activity; crops

AP-00409 PARMETER, JOHN R., Jr., Col. Agr., Univ. California, Berkeley, Cal.
air pollution; ozone; toxicology; growth; pine trees; carbon dioxide fixation; carbohydrates; ascorbic acid; fungi..plant fungi; photosynthesis; plants..roots; plants..leaves

AP-00415 HEAD, MURDOCK, George Washington Univ. Airlie Cr., Warrenton, Va.
information exchange; education..audio--visual aids; cinematography; air pollution; public opinion; television

AP-00432 NORTON, FRANCIS J., Atmospheric Sci. Res. Cr., State Univ. New York, Albany, N.Y.
air pollution; air sampling; diffusion; gases; monitoring; polymers; particle size

AP-00434 WENT, FRITS W., Desert Res. Inst., Univ. Nevada, Reno, Nev.
air sampling; air filters and filtration; air purification; air pollution; instrumentation--methodology

CA-01300 PIERCE, MILA I., Univ. Chicago, Chicago, Ill.
cooperative study; cancer chemotherapy; leukemia..acute leukemia; children; 9-ethyl-6-mercaptopurine; 6-mercaptopurine; 6-mercaptopurine riboside; leurocristine; actinomycin D; actinomycin P2; vincaleukoblastine; 2-bis (2-chloroethyl) amino-2H-1,3,2-oxazaphosphorinane 2-oxide

CA-02599 HOLLAND, JAMES F., Hlth. Res., Inc., Buffalo, N.Y.
cooperative study; cancer chemotherapy; leukemia..acute leukemia; antineoplastic agents; deaminases, deoxycytidylate deaminase

CA-02649 BRUBAKER, CHARLES A., Children's Hosp., Los Angeles, Cal.
alkylating agents; cancer chemotherapy; children; cooperative study; documentation systems; leukemia.. acute leukemia; 6-mercaptopurine; neoplasms; screening; steroid hormones; 6-thioguanine

CA-02821 HOLLAND, JAMES F., Hlth. Res., Inc., Buffalo, N.Y.
cancer chemotherapy; cooperative study

CA-02822 COLSKY, JACOB, Sch. Med., Univ. Miami, Miami, Fla.
cancer chemotherapy; cooperative study

CA-02824 SHNIDER, BRUCE I., Sch. Med., Georgetown Univ., Washington, D.C.
cooperative study; cancer chemotherapy; antineoplastic agents; 6--mercaptopurine; 6--mercaptopurine riboside; sarcolysin; 5--fluorouracil; radiation therapy; methotrexate; medroxyprogesterone; leurocristine; antibiotics.. streptonigrin; testosterone analogs; methylglyoxal bis (guanylhydrazone); hadacidin; cyclophosphamide; antibiotics..actinomycin D; drugs interaction; 1--pyrazole carboxamide; 5--fluor--2'--deoxyuridine; methylhydrazines; antibiotics..mitomycin

CA-02971 BISHOP, RONALD C., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
cancer chemotherapy; children; cooperative study; leukemia..acute leukemia; 6-mercaptopurine; 6-thioguanine; 6-thioguanosine

CA-03013 FROMMEYER, WALTER B., Jr., Univ. Alabama Med. Cr., Birmingham, Ala.
cooperative study; cancer chemotherapy; leukemia..chronic leukemia; leukemia..lymphocytic leukemia; myeloma, bone marrow..multiple myeloma; melanoma; carcinoma; dosage; methanesulfonic acid tetramethylene ester; triethylene melamine; radioisotopes..phosphorus 32; urethan; 1,6-bis(2-chloroethylamino)-1,6-deoxy-D-mannitol; nitrogen mustards; 9-ethyl-6-mercaptopurine; mithramycin

CA-03096 LEVIN, WILLIAM C., Med. Br., Univ. Texas, Galveston, Tex.
cancer chemotherapy; cooperative study; antineoplastic agents; a-sarcin; hydroxyurea; 1-pyrazole carboxamide; leukemia..chronic leukemia; leukemia..myeloid leukemia; leukemia..lymphocytic leukemia; myeloma, bone marrow.. multiple myeloma; leukemia..acute leukemia; toxicology; dosage; neoplasms; therapy evaluation

CA-03147 RAVDIN, ROBERT G., Hosp. Univ. Pennsylvania, Philadelphia, Pa.
cooperative study; cancer chemotherapy; breast neoplasms; steroid hormones

CA-03161 BLATTNER, RUSSELL J., Col. Med., Baylor Univ., Houston, Texas
actinomycin-D; 2-bis(2-chloroethyl)amino-2H-1,3,2-oxazaphosphorinane 2-oxide; cancer chemotherapy; children; cooperative study; leukemia..acute leukemia; lymphoma; 6-mercaptopurine; neoplasms; neuroblastoma; nitrogen mustards; prednisone; sarcoma

CA-03177 RUNDLES, R. WAYNE, Duke Univ. Med. Cr., Durham, N.C.
cancer chemotherapy; cooperative study; leukemia..myeloid leukemia; myeloma bone marrow..multiple myeloma; carcinoma; 6--mercaptopurine; nitrogen mustards; dosage; methanesulfonic acid; tetramethylene ester; chlorambucil; cyclophosphamide; D--mannitol 1,6--dimethanesulfonate; 3--(p--(bis(2--chloroethyl)amino)phenoxy)--propionic acid; (p--(bis(2--iodoethyl)amino)benzyl)--phosphonic acid diethyl ester; p--(bis(2--chloroethyl)amino)-

(contd)

INTERDISCIPLINARY (CONTD)

-carbanilic acid isopropyl ester; sarcolysin; ethyl bis(2,2--dimethyl--1--aziridyl)phosphinyl carbamate; 1,1'bis (2,3--epoxypropyl)--4,4'bis piperidine; antibiotics.. mithramycin; 1 H pyrazolo(3,4--d)pyrimidin--4--ol

CA-03195 **BERGSAGEL, DANIEL E., Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.**
cancer chemotherapy; cooperative study; leukemia.. lymphocytic leukemia; leukemia..chronic leukemia; myeloma, bone marrow..multiple myeloma; 4-(p(bis(2-chloroethyl)amino)phenyl)-butyric acid; prednisone

CA-03227 **HUGULEY, CHARLES M., Jr., Sch. Med., Emory Univ., Atlanta, Ga.**
cooperative study; cancer chemotherapy; leukemia.. lymphocytic leukemia; triethylene melamine; leukemia.. chronic leukemia; 4-(p(bis(2-chloroethyl)amino)phenyl)-butyric acid; lymphoma; myeloma, bone marrow; neoplasms; antineoplastic agents; therapy evaluation

CA-03337 **LARSEN, W.E., U. Kansas Med. Cr., Kansas City, Kansas**
cancer chemotherapy; cooperative study; leukemia; neoplasms

CA-03356 **WILDE, RALPH C., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
cancer chemotherapy; cooperative study; breast neoplasms; steroid hormones; androgens; carcinoma

CA-03357 **BRENNAN, MICHAEL J., Henry Ford Hosp., Detroit, Mich.**
cooperative study; breast neoplasms; cancer chemotherapy; steroid hormones

CA-03358 **CARTER, ANNE C., Col. Med., State Univ. New York, Brooklyn, N.Y.**
cancer chemotherapy; cooperative study; breast neoplasms; steroid hormones

CA-03359 **VOLK, HERBERT, Albert Einstein Col. Med., New York, N.Y.**
cooperative study; cancer chemotherapy; breast neoplasms; 11β--hydroxy--17α--methyltestosterone; fluoxymesterone; testosterone; screening; delta--1--testololactone; 2α--methylandrostan--17β--ol--3--one; ethynyl estradiol; prednisone; steroid hormones; 5--fluorouracil; antibiotics.. mitomycin C; a--nor--ketosteroids; delta--1--testololactone; medroxyprogesterone

CA-03360 **HAYES, MARK A., Sch. Med., Yale Univ., New Haven, Conn.**
cancer chemotherapy; cooperative study; breast neoplasms; steroid hormones analogs; testosterone analogs

CA-03364 **SEGALOFF, ALBERT, Alton Ochsner Med. Fdn., New Orleans, La.**
cooperative study; steroid hormones; cancer chemotherapy; breast neoplasms; testosterone; 7α--methyltestosterone; corticosterone; 17α--hydroxy--6α--methylprogesterone

CA-03365 **OLSON, KENNETH B., Albany Med. Col., Union Univ., Albany, N.Y.**
cooperative study; cancer chemotherapy; breast neoplasms; steroid hormones; testosterone; fluoxymesterone

CA-03376 **LOEB, VIRGIL, Jr., Sch. Med., Washington Univ., St. Louis, Mo.**
cancer chemotherapy; cooperative study; antineoplastic agents; antimetabolites; leukemia; lymphoma; myeloma, bone marrow..multiple myeloma

CA-03389 **STUCKEY, WALTER J., Jr., Sch. Med., Tulane Univ., New Orleans, La.**
cooperative study; leukemia; myeloma, bone marrow.. multiple myeloma; cancer chemotherapy

CA-03392 **HETTIG, ROBERT A., Sch. Med., Baylor Univ., Houston, Tex.**
cancer chemotherapy; cooperative study; leukemia; myeloma, bone marrow..multiple myeloma; neoplasms; toxicology; α-sarcin; 2-bis(2-chloroethyl)amino-2H-1,3,2-oxazaphosphorinane 2-oxide

CA-03400 **HAUT, ARTHUR, Univ. Arkansas Med. Cr., Little Rock, Ark.**
cooperative study; cancer chemotherapy; leukemia.. chronic leukemia; leukemia..myeloid leukemia; 4--(p(bis(2--chloroethyl)amino)phenyl)butyric acid; radiation therapy; radioisotopes..phosphorus 32; methanesulfonic acid tetramethylene ester; myeloma, bone marrow; 3--(p--(bis(2--chloroethyl)amino) phenyl)--DL--alanine; 3--(m--(bis(2--chloroethyl) amino)phenyl)--DL--alanine; 5--fluorouracil; 2--bis(2--chloroethyl)amino--2H--1,3,2--oxazaphosphorinane 2--oxide; prednisone

CA-03439 **ESCHER, GEORGE C., Sloan-Kettering Inst., New York, N.Y.**
cancer chemotherapy; breast neoplasms; cooperative study; steroid hormones; androstenedione; 17α--methylandrostane--11β,17β--diol; 2α--methylandrostan--17β--ol--3--one; testololactone; delta 1--testololactone; 2α, 17α--dimethyl 4,9(11)--androstadiene--17β--ol--3--one

CA-03485 **WOOD, DAVID A., Sch. Med., Univ. California, San Francisco, Cal.**
cancer chemotherapy; cooperative study; leukemia.. chronic leukemia; Hodgkin's disease; myeloma (bone marrow)..multiple myeloma; leukemia..myeloid leukemia; leukemia..acute leukemia; neoplasms; leukemia..monocytic leukemia; leukemia..lymphocytic leukemia; lymphoma

CA-03489 **GORDAN, GILBERT S., Univ. California Med. Cr., San Francisco, Cal.**
breast neoplasms; cancer chemotherapy; steroid hormones; cooperative study; fluoxymesterone; 2α--methylandrostan--17β--ol--3--one; diethylstilbestrol; 7α, 17α--dimethyl--4--androstene--17β--ol--3--one

CA-03526 **WOLFF, JAMES A., Col. Phys., Surg., Columbia Univ., N.Y.C.**
cancer chemotherapy; leukemia..acute leukemia; cooperative study; antineoplastic agents; therapy evaluation; children; retinoblastoma; neuroblastoma; nephroblastoma; neoplasms

CA-03664 **BLACKBURN, CHARLES M., Mayo Assn., Rochester, Minn.**
cooperative study; cancer chemotherapy; breast neoplasms; steroid hormones; testosterone analogs

CA-03713 **TAYLOR, GRANT, Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.**
cooperative study; cancer chemotherapy; children; leukemia..acute leukemia; toxicology; uracil mustards; ethyl (bis(1--aziridinyl)phospinyl)carbamate; leurocristine; hydroxyurea; cyclophosphamide; sarcolysin; nitrogen mustards; x--rays; methotrexate; 6--mercaptopurine; tereophthalanilides; antibiotics..actinogan; alpha--sarcin; lymphoma; nephroblastoma; 1--pyrazole carboxamide

CA-03735 **MOON, JOHN H., Med. Col. Virginia, Richmond, Va.**
cooperative study; cancer chemotherapy; leukemia..acute leukemia

CA-03740 **KELLEY, RITA M., Harvard Univ. Med. Sch., Boston, Mass.**
cooperative study; cancer chemotherapy; breast neoplasms; screening; steroid hormones

CA-03742 **TAYLOR, SAMUEL G., III, Presbyterian-St. Luke's Hosp., Chicago, Ill.**
cooperative study; cancer chemotherapy; breast neoplasms metastasis; estradiol; testosterone; 2-α-methyl-19-nortestosterone; steroid hormones; hydroxyurea; 4-oxa-5α-androstan-3-one 17β hydroxy-17-methyl; 10β-hydroxy-17α-ethinyl 19 nortestosterone

CA-03750 **NEWTON, WILLIAM A., Jr., Children's Hosp., Columbus, Ohio**
antineoplastic agents; cancer chemotherapy; children; cooperative study; leukemia..acute leukemia; screening

CA-03754 **TAYLOR, GRANT H., Univ. Texas M.D. Anderson Hosp., Houston, Tex.**
administration; cooperative study; cancer chemotherapy; leukemia; neoplasms; computer analysis

CA-03764 **HAINES, CARLETON R., Col. Med., Univ. Vermont, Burlington, Vt.**
breast neoplasms; cancer chemotherapy; cooperative study; methotrexate; 6β-methylandrostan-17β-ol-3-one; steroid hormones

CA-03796 **FRENKEL, EUGENE P., S.W. Med. Sch., Univ. Texas, Dallas, Tex.**
4-(p(bis(2-chloroethyl)amino)phenyl)-butyric acid; cancer chemotherapy; cooperative study; leukemia..acute leukemia; leukemia..chronic leukemia; leukemia..lymphocytic leukemia; leukemia..myeloid leukemia; myeloma (bone marrow)..multiple myeloma; prednisone

CA-03878 **LEWISON, EDWARD F., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
androgens; bioassay; breast neoplasms; cancer chemotherapy; cooperative study; cytology; steroid hormones; vagina

CA-03688 **LEIKIN, SANFORD L., Res. Fdn., Children's Hosp., Washington, D.C.**
antineoplastic agents; cancer chemotherapy; cooperative study; leukemia..acute leukemia; therapy evaluation; toxicology

CA-03927 **SPURR, CHARLES L., Bowman Gray Sch. Med., Winston-Salem, N.C.**
cooperative study; cancer chemotherapy; leukemia..acute leukemia; leukemia..chronic leukemia; lymphoma; myeloma, bone marrow; nervous system..central nervous system; nervous system disorders; antineoplastic agents; phosphorylation; tissue culture; toxicology; enzymes inhibitors

CA-04179 **BEATTY, EUGENE C., Jr., Children's Hosp., Denver, Colo.**
antineoplastic agents; cancer chemotherapy; children; cooperative study; 9-ethyl-6-mercaptopurine; leukemia.. acute leukemia; 6-mercaptopurine; 6-mercaptopurine riboside; prednisone; therapy evaluation; 6-thioguanine; 6-thioguanosine

CA-04180 **MOORE, GEORGE E., Hlth. Res., Inc., Buffalo, N.Y.**
cancer chemotherapy; surgery; breast neoplasms; thio-TEPA; longitudinal study; cooperative study

CA-04299 **CARABASI, RALPH A., Jefferson Med. Col., Philadelphia, Pa.**
cooperative study; breast neoplasms; carcinoma; steroid hormones; steroid hormones analogs

CA-04326 **EBAUGH, FRANKLIN G., Jr., Dartmouth Med. Sch., Hanover, N.H.**
androgens; cancer chemotherapy; cooperative study; dosage; leukemia..acute leukemia; lymphoma; 6-mercaptopurine; methotrexate; myeloma (bone marrow) multiple myeloma; therapy evaluation

CA-04402 **RILEY, HARRIS D., Jr., Sch. Med., Univ. Oklahoma, Oklahoma City, Okla.**
actinomycin-D; 2-bis(2-chloroethyl)amino-2H-1,3,2-oxazaphosphorinane 2-oxide; cancer chemotherapy; children; cooperative study; leukemia..acute leukemia; lymphoma; 6-mercaptopurine; nephroblastoma; nitrogen mustards; prednisone; sarcoma

CA-04457 **WASSERMAN, LOUIS R., Mt. Sinai Hosp., N.Y.C.**
antineoplastic agents; cancer chemotherapy; cooperative study; leukemia..acute leukemia; leukemia..chronic leukemia; lymphoma; myeloma, bone marrow..multiple myeloma; neuroblastoma; toxicology

CA-04486 **ZAMCHECK, NORMAN, Mallory Inst. Path., Boston, Mass.**
intestinal absorption; intestines; mucous membrane; dietary deficiency; proteins; xylose; alcoholic beverages; gastrointestinal disorders; bacteria..enterobacteria; hydrogen-ion concentration

CA-04594 **ANSFIELD, FRED J., Sch. Med., Univ. Wisconsin, Madison, Wis.**
cancer chemotherapy; cooperative study; breast neoplasms; steroid hormones; androgens; carcinoma; menopause

CA-04595 **DAO, THOMAS L., Health Research, Inc., Buffalo, N.Y.**
adrenal cortex hormones; adrenalectomy; androgens; breast neoplasms; cancer chemotherapy, cooperative study; metastasis; 17-methylandrostane-3β, 11β, 17β-triol; screening; steroid hormones

CA-04646 **COOPER, TALBERT, Mayo Assn., Rochester, Minn.**
cancer chemotherapy; children; cooperative study; leukemia..acute leukemia; leukemia..chronic leukemia; lymphoma; myeloma, bone marrow..multiple myeloma; neoplasms

CA-04737 **WOLMAN, IRVING J., Children's Hosp., Philadelphia, Pa.**
cancer chemotherapy; cooperative study; leukemia.. acute leukemia; neoplasms; children; blood transfusion; blood cells..thrombocytes

CA-04739 **HALL, THOMAS C., Pondville Hosp., Walpole, Mass.**
cooperative study; cancer chemotherapy; leukemia.. chronic leukemia; toxicology; radiation sensitivity; x--rays; antineoplastic agents; uracil mustards; actinomycin D; 5--fluorouracil; 5--fluoro--2--deoxyuridine; vincaleukoblastine; 5--bromo--2'--deoxyuridine; leurocristine; 3--(m--(bis(2--chloroethyl)amino) phenyl)--DL--alanine; 1--ethyleneimino--2--hydroxybutene

CA-04828 **EDDY, JAMES H., Confederate Mem. Med. Cr., Shreveport, La.**
cooperative study; cancer chemotherapy; breast neoplasms; steroid hormones; androsterone

CA-04915 **MONTO, RAYMOND W., Henry Ford Hosp, Detroit, Mich.**
cancer chemotherapy; leukemia..acute leukemia; leukemia ..chronic leukemia; cooperative study; 6-mercaptopurine; 6-thioguanine; 6-thioguanosine; adults; piperazines; neoplasms

CA-04920 **DOAN, CHARLES A., Ohio State Univ. Hosp., Columbus, Ohio**
cooperative study; leukemia; lymphoma; 1,4--bis (3--hydrozypropionyl) piperazine dimethanesulfonate; 1,4--bis(3--bromopropionyl)piperazine; 2,4--bis (1--aziridinyl)--6--methyl--5--nitropyrimidine; myeloma (bone marrow)..multiple myeloma; 2--bis(2--chloroethyl) amino--2H--1,3,2--oxazaphosphorinane 2--oxide; leukemia..acute leukemia; adults; purine analogs

CA-04937 **HARTMANN, JOHN R., Sch. Med., Univ. Washington, Seattle, Wash.**
cancer chemotherapy; leukemia..acute leukemia; children; therapy evaluation; neoplasms; cyclophosphamide; cooperative study; oxylone; prednisone; colchicine analogs; antibiotics, streptonigrin; antibiotics, actinomycin D; folic acid antagonists..methotrexate; 6--mercaptopurine; leurocristine; immunology; neuroblastoma; nephroblastoma

CA-04985 **LOUIS, JOHN, Col. Med., Univ. Illinois, Chicago, Ill.**
antimetabolites; antineoplastic agents; 1,4-bis-(3-bromopropionyl)-piperazine; 2-bis(2-chloroethyl)amino-2H-1,3,2-oxazaphosphorinane 2-oxide; cancer chemotherapy; children; cooperative study; 5-fluoro-2'-deoxy-uridine; leukemia..acute leukemia; 6-mercaptopurine; neoplasms; therapy evaluation; thioguanine; thioguanosine

CA-05096 **HADDOW, ALEXANDER, Chester Beatty Research Inst., London, England**
cancer; information exchange

CA-05186 **STEINFELD, JESSE L., Sch. Med., Univ. Southern California, Los Angeles, Cal.**
cancer chemotherapy; cooperative study; alkylating agents; leukemia..chronic leukemia; leukemia..lymphocytic leukemia; myeloma, bone marrow..multiple myeloma; 5-fluoro-2-deoxyuridine; 5-iododeoxyuridine; leukemia.. acute leukemia; carcinoma; epidermoid carcinoma; head neoplasms; neck neoplasms; methotrexate; leurocristine

CA-05436 **SMITH, NATHAN J., Sch. Med., Univ. Wisconsin, Madison, Wis.**
cooperative study; cancer chemotherapy; leukemia..acute leukemia; children; neoplasms; 6--mercaptopurine; leurocristine; 2--bis(2--chloroethyl)amino--2H--1,3,2--oxazaphosphorinane 2--oxide; actinomycin D; methotrexate; 4--(p(bis(2--chloroethyl)amino)phenyl)--butyric acid; 1,4--bis(3--bromopropionyl)--piperazine; mithramycin

CA-05462 **HAURANI, FARID I., Jefferson Med. Col., Philadelphia, Pa.**
cancer chemotherapy; cooperative study; leukemia..acute leukemia

CA-05587 **HARTMAN, ALEXIS F., Sch. Med., Washington Univ., St. Louis, Mo.**
cooperative study; cancer chemotherapy; children; longitudinal study; leukemia; neoplasms; 2-bis(2-chloroethyl) amino-2H-1,3,2-oxazaphosphorinane 2-oxide; 6-mercaptopurine; uracil mustards; ethyl (bis(1-aziridinyl) phosphinyl) carbamate; actinomycin D; 3-(p-(bis(2-chloroethyl)amino)phenyl)-DL-alanine; 1-pyrazole carboxamide; hydroxyurea; leurocristine; methotrexate; radiation therapy

CA-05588 **GROB, DAVID, Maimonides Hospital Brooklyn, Brooklyn, N.Y.**
cooperative study; cancer chemotherapy; neoplasms; lymphoma; lymphosarcoma; Hodgkin's disease

CA-05634 **LASZLO, JOHN, Veterans Admin. Hosp., Durham, N.C.**
cancer chemotherapy; cooperative study; 6--mercaptopurine; blood cells..erythrocytes; immunology; host--neoplasm; purine; leukemia; uric acid; antimetabolites; antibiotics..streptomycin; nucleic acids; oxidation; glycolysis; blood cells..leukocytes; electron transport

CA-05641 **LESSNER, HOWARD E., Jackson Mem. Hosp., Miami, Fla.**
cooperative study; cancer chemotherapy; leukemia; lymphoma; myeloma, bone marrow..multiple myeloma

CA-05826 **RANDALL, HENRY T., Memorial Sloan-Kettering Cancer Cr., N.Y.C.**
clinical research centers; cancer; cancer chemotherapy; surgery; endocrine glands; bone marrow; children; patient care

CA-05833 **HOLLAND, JAMES F., Roswell Park Mem. Inst., Buffalo, N.Y.**
research programs; cancer; nutrition; dietary deficiency; folic acid; pyridoxine; antimetabolites; deoxyribonucleic acid; cancer chemotherapy; radiation therapy; therapy evaluation; enzymes

CA-05847 **LEWIN, ISAAC, Cook County Hosp., Chicago, Ill.**
breast neoplasms; cancer chemotherapy; carcinoma; cooperative study; metastasis; steroid hormones

CA-05848 **MOORE, GEORGE E., Health Research, Inc., Buffalo, N.Y.**
biometry; cancer chemotherapy; cooperative study; mastectomy; ovariectomy; radiation therapy

CA-05862 **KENNEDY, BYRL J., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
cooperative study; breast neoplasms; cancer chemotherapy; steroid hormones

CA-05863 **HUSEBY, ROBERT A., Univ. Colorado Med. Cr., Denver, Colo.**
cooperative study; cancer chemotherapy; breast neoplasms; steroid hormones

CA-05923 **LEE, STANLEY L., Maimonides Hospital of Brooklyn, Brooklyn, N.Y.**
antineoplastic agents; blood cells, leukocytes; cancer chemotherapy; cell; cooperative study; immunology..antibodies; immunology..antigens; leukemia, acute leukemia

CA-05924 **MERRILL, MALCOLM H., California Dept. Pub. Hlth., Berkeley, Cal.**
research programs; cancer; epidemiology; epizootiology; environment; carcinogens; radiation hazards; viruses.. oncogenic viruses; geographical sites..California

CA-06060 **MOORE, GEORGE E., Health Research, Inc., Buffalo, N.Y.**
antineoplastic agents; cancer

CA-06071 **CURRERI, ANTHONY R., Sch. Med., Univ. Wisconsin, Madison, Wis.**
antineoplastic agents; cooperative study; dosage; therapy; therapy evaluation; toxicology

CA-06084 **DIXON, WILFRID J., Sch. Med., Univ. California, Los Angeles, Cal.**
statistics; longitudinal study; intestinal neoplasms.. colon neoplasms; intestinal neoplasms..rectum neoplasms; intestinal resection; cancer chemotherapy; cooperative study

CA-06105 **LONGMIRE, WILLIAM P., Jr., Sch. Med., Univ. California, Los Angeles, Cal.**
antineoplastic agents; cancer chemotherapy; cooperative study; dosage; patient care; screening; therapy evaluation

CA-06122 **GREENBERG, BERNARD G., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.**
leukemia..chronic leukemia; leukemia, lymphocytic leukemia; cancer chemotherapy; cooperative study; biometry; computer

CA-06209 **GOLDNER, MARTIN G., Jewish Hosp., Brooklyn, N.Y.**
cooperative study; cancer chemotherapy; breast neoplasms; steroid hormones

CA-06226 **WATKINS, W. LORRAINE, Sch. Med., Emory Univ., Atlanta, Ga.**
cancer chemotherapy; cooperative study; leukemia; children; growth; neoplasms

CA-06262 **MURPHY, M. LOIS, Sloan-Kettering Inst. Cancer Res., New York, N.Y.**
leukemia..acute leukemia; prednisone; 6--mercaptopurine; 9--ethyl--6--mercaptopurine; 6--mercaptopurine riboside; cancer chemotherapy; cooperative study; neoplasms; actinomycin D; 4--(p(bis(2--chloroethyl)amino)phenyl)--butyric acid; methotrexate; leurocristine; 2--bis(2--chloroethyl)amino--2H--1,3,2--oxazaphosphorinane 2--oxide; children; 6α--methyl, 9α--fluoro, 17--acetoxy, 21--deoxyprednisolone; 4--bis(3--bromopropionyl)--piperazine; hadacidin; corticosterone

CA-06444 **HOWE, CLIFTON D., Univ. Texas M.D. Anderson Hosp. and Tumor Inst., Houston, Tex.**
cancer chemotherapy; cooperative study; α--sarcin;

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INTERDISCIPLINARY (CONTD)

hydroxyurea; terephthalanilides; 3--(p--(Bis(2--chloroethyl)amino)phenyl)--L--alanine; phenozinium 1,3--diamino--5--methyl--chloride; antibiotics.. actinogan; antibiotics..narangomycin; 1--pyrazole carboxamide

CA-06511 DIXON, WILFRID J., Univ. California, Los Angeles, Cal.
longitudinal study; stomach neoplasms

CA-06516 FARBER, SIDNEY, Children's Cancer Res. Fdn., Boston, Mass.
cancer chemotherapy; antineoplastic agents; research programs; leukemia; cancer; synthesis; screening; pharmacology; radiation sensitivity; hematopoietic tissues; drugs resistance

CA-06594 OLSON, KENNETH B., Albany Med. Col. Union Univ., Albany, N.Y.
cooperative study; cancer chemotherapy; neoplasms; calcium; uric acid

CA-06616 BREWER, JOHN I., Sch. Med., Northwestern Univ., Chicago, Ill.
actinomycin D; cancer chemotherapy; chorioadenoma; choriocarcinoma; chorionic gonadotropins; diagnostic tests; hemagglutination inhibition; hydatidiform mole; immunology..antibodies; information exchange; methotrexate; pregnancy..placental neoplasms; pregnancy tests; vincaleukoblastine

CA-06632 PROUT, GEORGE R., Jr., Med. Col. Virginia, Richmond, Va.
cancer chemotherapy; cooperative study; urinary bladder neoplasms; 5-fluorouracil; surgery; radiation therapy; therapy evaluation

CA-06746 ISAACS, BERTHA L., Sch. Med., Northwestern Univ., Chicago, Ill.
cooperative study; cancer chemotherapy; leukemia; neoplasms; hematology

CA-06747 ACKERMAN, LAUREN V., Sch. Med., Washington Univ., St. Louis, Mo.
lung neoplasms; radiation therapy; pneumonectomy; cooperative study; radiation effects

CA-06748 CARPENTER, CHARLES M., Med. Sch., Univ. California, Los Angeles, Cal.
blood proteins..serum proteins; body fluids; cancer; diagnostic tests; growth factors; immunochemistry; immunological tests; immunology; neoplastic cells; proteins; research programs; screening; viricides

CA-06750 GRANT, ROALD N., American Cancer Soc., N.Y.C.
conferences; cancer; publications

CA-06800 EVANS, A. McCHESNEY, Cancer Res. Cr., Columbia, Mo.
cancer chemotherapy; cooperative study; leukemia; neoplasms

CA-06807 WRIGHT, CLAUDE-STARR, Med. Col. Georgia, Augusta, Ga.
cancer chemotherapy; cooperative study; leukemia; neoplasms

CA-06927 TALBOT, TIMOTHY R., Jr., Inst. Cancer Research, Philadelphia, Pa.
research programs; cancer; carcinogenesis; cancer chemotherapy; carcinogens; antineoplastic agents; metastasis; sulfur compounds; cell components..cell nucleus; nucleoproteins; ribonucleic acid; deoxyribonucleic acid; genetics..chromosomes; cell differentiation; embryology; radiation effects; ultraviolet rays; liver neoplasms; aromatic compounds; hydrocarbons; cell division..mitosis; mutation; proteases..peptidases; cell components..cell nucleus transplantation; pituitary hormones; nitrogen mustards; synthesis; chemical structure--biological activity; fungi..yeasts; bacteria; polysaccharides; toxins

CA-06939 RUSSELL, WILLIAM O., Univ. Texas M.D. Anderson Hosp., Tumor Inst., Houston, Tex.
research programs; cancer; pathology; medical research; immunology; hematology; microbiology; diagnostic tests; computer analysis; documentation systems; laboratory facilities; biochemistry; carcinogenesis

CA-06988 FRIEDMAN, LEO, Sch. Sci., Massachusetts Inst. Tech., Cambridge, Mass.
research programs; criteria; food contamination; food additives; toxicology; subliminal; carcinogens; physiology; biochemistry; enzymes; nutrition; histopathology; cell biology; carcinogenesis; chemical structure--biological activity

CA-06989 NELSON, NORTON, New York Univ. Med. Cr., New York, N.Y.
research programs; occupational hazards; carcinogenesis; air pollution; radiation hazards; radiation fallout; carcinogens; chemical structure--biological activity; urinary bladder neoplasms; bronchogenic carcinoma; skin neoplasms; lung neoplasms; deoxyribonucleic acid; genetics..chromosomes; mutations; epidemiology; aromatic compounds hydrocarbons; radioisotopes..radium

CA-07167 KRANT, MELVIN J., Lemuel Shattuck Hosp., Boston, Mass.
cancer chemotherapy; cooperative study; breast neoplasms; steroid hormones; carcinoma; 5α-methyl-1-androstene-17β-ol-3-one

CA-07174 WEINHOUSE, SIDNEY, Sch. Med., Temple Univ., Philadelphia, Pa.
research programs; cancer; carcinogenesis; biochemistry; cytology; transformation; enzymes; fatty acids; laboratory facilities

CA-07175 RUSCH, HAROLD P., Sch. Med., Univ. Wisconsin, Madison, Wis.
research programs; cancer; carcinogenesis; hydrocarbons; enzyme inhibitors; fluorodeoxyuridine nucleotides; synthetases; esters; AAF; estrogens; deoxyribonucleic acid; ribonucleic acid; proteins; nucleotides; phospholipids; cell culture; synchronous cell division; liver cells; HeLa cells; fibroblasts; hepatoma Novikoff; hepatoma 5123 Morris; fungi..Physarum polycephalum; radiation sensitivity; viruses..Rous sarcoma virus; carcinogens; cell differentiation; cell division..mitosis

CA-07177 SIMPSON, WILLIAM L., Detroit Inst. Cancer Res., Detroit, Mich.
aminofuranosyluracils; arterial infusions; blood proteins, serum proteins; brain neoplasms; cancer; cancer chemotherapy; carboxylic acids; chemical structure--biological activity; clinical research center; enzymes; metastasis; synthesis; tetrazoles; therapy evaluation; tissue culture; viruses.. oncogenic viruses

CA-07190 CHALMERS, THOMAS C., Lemuel Shattuck Hosp., Boston, Mass.
cancer chemotherapy; cooperative study; antimetabolites; alkylating agents

CA-07206 LOFSTROM, JAMES E., Col. Med., Wayne State Univ., Detroit, Mich.
cooperative study; lung neoplasms; radiation therapy; surgery..preoperative; pneumonectomy; radioisotopes.. cobalt 60

CA-07226 KING, E. RICHARD, Med. Col. Virginia, Richmond, Va.
cooperative study; lung neoplasms; radiation therapy; surgery..preoperative; thoracic surgery; radioisotopes.. cobalt 60

CA-07231 HAMMERSTEN, JAMES F., Col. Med. Sci., Univ. Minnesota, Minneapolis, Minn.
cancer chemotherapy; cooperative study; therapy evaluation; children; leukemia..acute leukemia; leukemia..chronic leukemia; lymphoma; nephroblastoma; muscle neoplasms; neuroblastoma; bone neoplasms; reticuloendotheliosis; toxicology; antineoplastic agents

CA-07240 BLOEDORN, FERNANDO G., Univ. Maryland Hosp., Baltimore, Md.
cooperative study; lung neoplasms; radiation therapy; surgery..preoperative; pneumonectomy; radioisotopes.. cobalt 60

CA-07303 RANDALL, HENRY T., Memorial Hosp. for Cancer, Allied Diseases, N.Y.C.
research programs; cancer; host-neoplasm; neoplastic growth; pituitary hormones; thyroid hormones; hypophysectomy; nutrition; thyroid neoplasms; enzymes; vitamins; calcium; magnesium; potassium; gastrointestinal neoplasms; gastrointestinal surgery; cancer chemotherapy; proteins; fats; steroids; cholesterol; uric acid; diabetes; perfusion; antidiuresis; intestinal absorption; tetracycline; osteogenic sarcoma; radiation effects; tritium; therapy evaluation

CA-07304 GALLAGHER, THOMAS F., Montefiore Hosp., New York, N.Y.
5β-androstane-3α-ol-17-one; biological compounds preparation; body fluids; cancer chemotherapy; chemical structure; cholesterol; computer analysis; conjugated systems; drugs resistance; enzymes; fractionation; infrared spectrometry; metabolites; research programs; secretory mechanisms; steroid hormones; synthesis

CA-07306 KRIVIT, WILLIAM, Univ. Minnesota Hosps., Minneapolis, Minn.
actinomycin; 2-bis(2-chloroethyl)amino-2H-1,3,2-oxazaphosphorinane 2-oxide; 4-(p(bis(2-chloroethyl)amino)-phenyl)-butyric acid; cancer chemotherapy; children; cooperative study; 9-ethyl-6-mercaptopurine; leukemia.. acute leukemia; leukemia..lymphocytic leukemia; leurocristine; methotrexate; 6-mercaptopurine; prednisone; therapy evaluation

CA-07353 LEWIS, GEORGE C., Jr., Hahnemann Med. Col., Philadelphia, Pa.
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; medroxyprogesterone

CA-07355 DeALVAREZ, RUSSELL R., Temple Univ. Med. Cr., Philadelphia, Pa.
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 17α--hydroxy--6α--methyltestosterone

CA-07357 FERNBACH, DONALD J., Texas Children's Hospital, Houston, Texas
acute leukemia; blood cells..leukocytes; blood cells.. thrombocytes; blood transfusions; bone marrow; cancer chemotherapy; cell culture; children; chromosomes; congenital abnormalities; deoxyribonucleic acid; epidemiology; family..parent-child; longitudinal study; patient care; phagocytosis; research programs; toxicology; virus-like particles; viruses..oncogenic viruses

CA-07358 LELICH, BRONCHO P., Permanente Med. Group, San Francisco, Cal.
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 17α-hydroxy-6α-methylprogesterone; hysterectomy

CA-07359 TAYLOR, E. STEWART, Univ. Colorado Med. Cr., Denver, Colo.
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 17α--hydroxy--6α--methyltestosterone

CA-07361 **WOODRUFF, MARVIN W., Hlth. Res., Inc., Buffalo, N.Y.**
cancer chemotherapy; cooperative study; urinary bladder neoplasms; 5-fluorouracil; surgery; radiation therapy; therapy evaluation; cystectomy

CA-07362 **MARCHANT, DOUGLAS J., New England Cr. Hosp., Boston, Mass.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 6α--methyl--4--androstene--17α--ol--3--one; hysterectomy

CA-07364 **McDUFF, KENRY C., Jr., Rhode Island Hosp., Providence, R.I.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 6α-methyl-4-androstene-17α-ol-3-one; hysterectomy

CA-07365 **PEARSE, WARREN H., Col. Med., Univ. Nebraska, Omaha, Nebr.**
adenocarcinoma; cancer chemotherapy; cooperative study; 17α-hydroxy-6α-methyltestosterone; hysterectomy; radiation therapy; surgery; therapy evaluation; uterus neoplasms

CA-07366 **BOSSERT, LESTER J., Cincinnati General Hosp., Cincinnati, Ohio**
adenocarcinoma; cancer chemotherapy; cooperative study; 17α-hydroxy-6α-methyltestosterone; hysterectomy; radiation therapy; surgery; therapy evaluation; uterus neoplasms

CA-07368 **SWEET, WILLIAM H., Massachusetts Gen. Hosp., Boston, Mass.**
research programs; brain neoplasms; head neoplasms; face neoplasms; glioma; diagnostic tests; neurosurgery; cancer chemotherapy; radiation therapy; radiation sensitivity; arterial infusions; brain mapping; electrophysiology; computer analysis; cell components..organelles; membrane permeability and transport; eye..retina

CA-07372 **ALBAN, E.J., Jr., Oakwood Hosp., Dearborn, Mich.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 6α--methyl--4--androstene--17α--ol--3--one; hysterectomy

CA-07375 **BOYCE, WILLIAM H., Bowman Gray Sch. Med., Winston-Salem, N.C.**
cancer chemotherapy; cooperative study; urinary bladder neoplasms; 5-fluorouracil; cystectomy; radiation therapy; therapy evaluation

CA-07377 **ZUSPAN, FREDERICK P., Med. Col. Georgia, Augusta, Ga.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 17α-hydroxy-6α-methyltestosterone

CA-07378 **WEBER, LENNARD L., Albert Einstein Med. Cr., Philadelphia, Pa.**
adenocarcinoma; cancer chemotherapy; cooperative study; 17α-hydroxy-6α-methyltestosterone; radiation therapy; surgery; therapy evaluation; uterus neoplasms

CA-07381 **HAYNES, DOUGLAS M., Sch. Med., Univ. Louisville, Louisville, Ky.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 6α-methyl-4-androstene-17α-ol-3-one; hysterectomy

CA-07385 **MALLAMS, JOHN T., Baylor Univ. Med. Cr., Dallas, Tex.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 6α-methyl-4-androstene-17α-ol-3-one; hysterectomy

CA-07386 **KAMINETZKY, HAROLD A., Col. Med., Univ. Illinois, Chicago, Ill.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 17α-hydroxy-6α-methyltestosterone

CA-07387 **GLENN, JAMES F., Duke Univ. Med. Cr., Durham, N.C.**
cancer chemotherapy; cooperative study; urinary bladder neoplasms; 5-fluorouracil; surgery; radiation therapy; therapy evaluation

CA-07388 **CARRINGTON, ELSIE R., Women's Medical Col. Pennsylvania, Philadelphia, Pa.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 6α--methyl--4--androstene--17α--ol--3--one; hysterectomy; medroxyprogesterone

CA-07389 **SCHREIER, PHIL C., Col. Med., Univ. Tennessee, Memphis, Tenn.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 17α--hydroxy--6α--methyltestosterone

CA-07392 **GARNET, JAMES D., Pennsylvania Hosp., Philadelphia, Pa.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 17α--hydroxy--6α--methylprogesterone; hysterectomy

CA-07412 **WARDNER, LEROY H., Hartford Hosp., Hartford, Conn.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 6α-methyl-4-androstene-17α-ol-3-one; hysterectomy

CA-07413 **STONE, MARTIN L., New York Med. Col., N.Y.C.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 17α-hydroxyprogesterone caproate; hysterectomy

CA-07416 **CORBIT, JOHN D., Presbyterian Hosp., Philadelphia, Pa.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 6α-methyl-4-androstene-17α-ol-3-one; hysterectomy

CA-07417 **CARRINGTON, ELSIE R., Woman's Med. Col., Philadelphia, Pa.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; surgery; radiation therapy; therapy evaluation; 6α--methyl--4--androstene--17α--ol--3--one; hysterectomy

CA-07419 **ALLEN, CLIFFORD V., Univ. Oregon Med. Sch., Portland, Ore.**
research programs; cooperative study; lung neoplasms; pneumonectomy; radiation therapy; therapy evaluation

CA-07431 **BORGES, WAYNE H., Sch. Med., Univ. Pittsburgh, Pittsburgh, Pa.**
leukemia..acute leukemia; prednisone; 6-mercaptopurine; 9-ethyl-6-mercaptopurine; 6-mercaptopurine riboside; cancer chemotherapy; cooperative study; children

CA-07439 **ALBO, VINCENT C., Children's Hosp., Pittsburgh, Pa.**
actinomycin D; 1,4-bis(3-bromopropionyl)-piperazine; 2-bis(2-chloroethyl)amino-2H-1,3,2-oxazaphosphorinane 2-oxide; 4-(p(bis(2-chloroethyl)amino)phenyl)-butyric acid; cancer chemotherapy; children; cooperative study; 9-ethyl-6-mercaptopurine; leukemia..acute leukemia; leurocristine; 6-mercaptopurine riboside; methotrexate; prednisone; solid neoplasms; therapy evaluation

CA-07462 **McCARTNEY, CHARLES P., Chicago Lying In Hosp., Chicago, Ill.**
adenocarcinoma; cancer chemotherapy; cooperative study; 17α-hydroxy-6α-methylprogesterone; radiation therapy; surgery; therapy evaluation; uterus neoplasms

CA-07498 **MILLER, HARRY C., Univ. Rochester Med. Cr., Rochester, N.Y.**
cooperative study; urinary bladder neoplasms; cancer chemotherapy; radiation therapy; cystectomy; carcinoma; 5--fluorouracil; urinary diversion

CA-07557 **ROITMAN, HARRY B., Grad. Hosp. Univ. Pennsylvania, Philadelphia, Pa.**
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; hysterectomy; ovariectomy; radiation therapy; therapy evaluation; 17α-hydroxy-6α-methyltestosterone

CA-07559 **SCHAEFFER, FRANCES C., Allentown Hospital Assn., Allentown, Pa.**
adenocarcinoma; cancer chemotherapy; cooperative study; 17α-hydroxyprogesterone caproate; hysterectomy; radiation therapy; therapy evaluation; uterus neoplasms

CA-07583 **KAUFMAN, JOSEPH J., Sch. Med., UCLA Center Hlth. Sci., Los Angeles, Cal.**
cancer chemotherapy; carcinoma; cooperative study; cystectomy; 5-fluorouracil; radiation therapy; therapy evaluation; urinary bladder neoplasms

CA-07584 **DONOHUE, DENNIS M., King County Central Blood Bank, Seattle, Wash.**
cancer chemotherapy; cooperative study; information exchange

CA-07585 **SOLOMON, JOEL, City Hope Med. Cr., Duarte, Cal.**
cancer chemotherapy; therapy evaluation; cooperative study; lymphoma; leukemia..acute leukemia; leukemia.. chronic leukemia; leukemia..myeloid leukemia; leukemia.. lymphocytic leukemia; lymphosarcoma; myeloma, bone marrow..multiple myeloma; Hodgkin's disease; reticulum cell sarcoma; leurocristine; folic acid antagonists; sarcolysin; antibiotics..vincaleukoblastine; colchicine analogs; antibiotics..mithramycin; antibiotics.. streptonigrin; prednisone

CA-07586 **YETTRA, MAURICE, Kaiser Fdn. Hosp., Los Angeles, Cal.**
cancer chemotherapy; therapy evaluation; cooperative study; lymphoma; leukemia; lymphosarcoma; myelofibrosis; myeloma, bone marrow..multiple myeloma; Hodgkin's disease; reticulum cell sarcoma; polycythemia vera

CA-07594 **PINKEL, DONALD, St. Jude Hosp., Memphis, Tenn.**
6-azauridine; cancer chemotherapy; children; cooperative study; leukemia..acute leukemia; leurocristine; metotrexate; therapy evaluation

CA-07595 **KIMBALL, HOWARD W., Memorial Hosp., Phoenix, Ariz.**
cancer chemotherapy; cooperative study; leukemia; lymphoma; myeloma; therapy evaluation

CA-07608 **POLK, JOHN W., Missouri State Sanatorium, Mt. Vernon, Mo.**
cooperative study; lung neoplasms; pneumonectomy; radiation therapy; therapy evaluation

CA-07610 **LOCK, FRANK R., Bowman Gray Sch. Med., Wake Forest Col., Winston-Salem, N.C.**
adenocarcinoma; cancer chemotherapy; cooperative study; 17α-hydroxyprogesterone caproate; hysterectomy; ovariectomy; radiation therapy; therapy evaluation; uterus neoplasms

CA-07688 **THOMPSON, NICHOLAS J., Miami Valley Hosp., Dayton, Ohio**
adenocarcinoma; cancer chemotherapy; cooperative study; 17α-hydroxyprogesterone caproate; hysterectomy; ovariectomy; radiation therapy; radioisotopes..radium; therapy evaluation; uterus neoplasms

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INTERDISCIPLINARY (CONTD)

CA-07689 HILL, EDWARD C., Univ. California Med. Cr., San Francisco, Cal.
adenocarcinoma; cancer chemotherapy; cooperative study; 17α-hydroxyprogesterone caproate; hysterectomy; ovariectomy; radiation therapy; therapy evaluation; uterus neoplasms

CA-07694 LYNCH, J. EDWARD, Misericordia Hosp., Philadelphia, Pa.
adenocarcinoma; cancer chemotherapy; cooperative study; 17α-hydroxyprogesterone caproate; hysterectomy; ovariectomy; radiation therapy; radioisotopes..radium; surgery; therapy evaluation; uterus neoplasms

CA-07697 McGOWEN, LARRY, Fitzgerald Mercy Hosp., Darby, Pa.
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; radiation therapy; therapy evaluation; 17α--hydroxyprogesterone caproate; hysterectomy; radioisotopes..radium; ovariectomy

CA-07704 HRESHCHYSHYN, MYROSLAW M., State Univ. New York, Buffalo, N.Y.
adenocarcinoma; cancer chemotherapy; cooperative study; 17α-hydroxy-6α-methylprogesterone; hysterectomy; ovariectomy; radiation therapy; therapy evaluation; uterus neoplasms

CA-07705 HRESHCHYSHYN, MYROSLAW M., Buffalo Gen. Hosp., Buffalo, N.Y.
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; hysterectomy; ovariectomy; radiation therapy; therapy evaluation; 17β-hydroxy-6α-methylprogesterone

CA-07706 HRESHCHYSHYN, MYROSLAW M., Buffalo Gen. Hosp., Buffalo, N.Y.
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; hysterectomy; ovariectomy; radiation therapy; therapy evaluation; 17α--hydroxy--6α--methylprogesterone

CA-07707 HRESHCHYSHYN, MYROSLAW M., Sch. Med., State Univ. New York, Buffalo, N.Y.
adenocarcinoma; cancer chemotherapy; cooperative study; hysterectomy; 6α-methyl-17α-hydroxyprogesterone acetate; ovariectomy; radiation therapy; therapy evaluation; uterus neoplasms

CA-07708 FERGUSON, JAMES H., Jackson Memorial Hosp., Miami, Fla. cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; hysterectomy; ovariectomy; radiation therapy; therapy evaluation; 17α-hydroxy-6α-methylprogesterone

CA-07711 VALK, WILLIAM L., Kansas Univ. Med. Cr., Kansas City, Kans.
cancer chemotherapy; cooperative study; urinary bladder neoplasms; 5-fluorouracil; cystectomy; radiation therapy; therapy evaluation

CA-07738 PEREZ-MESA, CARLOS, Ellis Fischel State Cancer Hosp., Columbia, Mo.
cancer chemotherapy; cooperative study; urinary bladder neoplasms; 5-fluorouracil; cystectomy; radiation therapy; therapy evaluation

CA-07750 MUCKLE, CRAIG W., Delaware Count Mem. Hosp., Drexel Hill, Pa.
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; hysterectomy; ovariectomy; radiation therapy; therapy evaluation; 17α-hydroxy-6α-methylprogesterone

CA-07757 KLINGBERG, WILLIAM G., West Virginia Univ. Med. Cr., Morgantown, W. Va.
cancer chemotherapy; cooperative study; leukemia..acute leukemia; myeloma, bone marrow..multiple myeloma; Hodgkin's disease; nephroblastoma; children; prednisone; leurocristine; methotrexate; 6--mercaptopurine; 2--bis(2--chloroethyl)amino--2H--1,3,2--oxazaphosphorinane 2--oxide; 3--(p--(bis(2--chloroethyl) amino)phenyl)--l--alanine; mitomycin C; actinomycin D; therapy evaluation

CA-07760 THOMPSON, IAN M., Univ. Missouri Med. Cr., Columbia, Mo.
cancer chemotherapy; cooperative study; cystectomy; 5-fluorouracil; radiation therapy; therapy evaluation; urinary bladder neoplasms

CA-07761 WINTER, CHESTER C., University Hosp., Columbus, Ohio
cancer chemotherapy; cooperative study; cystectomy; 5-fluorouracil; radiation therapy; therapy evaluation; urinary bladder neoplasms

CA-07762 HODGES, CLARENCE V., Sch. Med., Univ. Oregon, Portland, Ore.
cancer chemotherapy; cooperative study; urinary bladder neoplasms; 5-fluorouracil; cystectomy; radiation therapy; therapy evaluation

CA-07816 MIKUTA, JOHN J., Hosp. Univ. Pennsylvania, Philadelphia, Pa.
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; hysterectomy; ovariectomy; radiation therapy; therapy evaluation; 17α-hydroxy-6α-methyl-testosterone

CA-07894 HEYL, W. MEREDITH, Germantown Disp. and Hosp., Philadelphia, Pa.
adenocarcinoma; cancer chemotherapy; cooperative study; 17α-hydroxy-6α-methylprogesterone; hysterectomy; ovariectomy; radiation therapy; therapy evaluation; uterus neoplasms

CA-07895 FLOCKS, RUBIN H., State Univ. Iowa, University Hosp., Iowa City, Iowa
cancer chemotherapy; cooperative study; urinary bladder neoplasms; 5-fluorouracil; cystectomy; radiation therapy; therapy evaluation

CA-07896 PERSKY, LESTER, Sch. Med., Western Reserve Univ., Cleveland, Ohio
cancer chemotherapy; cooperative study; urinary bladder neoplasms; 5-fluorouracil; cystectomy; radiation therapy; therapy evaluation

CA-07901 MONTGOMERY, JOHN B., Jefferson Med. Col., Philadelphia, Pa.
cancer chemotherapy; cooperative study; uterus neoplasms; adenocarcinoma; hysterectomy; ovariectomy; radiation therapy; therapy evaluation; 17α-hydroxy-6α-methyl-progesterone

CA-07913 FLETCHER, GILBERT H., M.D. Anderson Hosp., Tumor Inst., Univ. Texas, Houston, Tex.
neoplasms; radiation therapy; cooperative study; lung neoplasms; lymphoma; head neoplasms; neck neoplasms; cancer chemotherapy; therapy evaluation; statistics

CA-07918 CORTNER, JEAN A., Roswell Park Mem. Inst., Buffalo, N.Y.
cancer chemotherapy; cooperative study; leukemia..acute leukemia; children; leurocristine; methotrexate; therapy evaluation; 6--mercaptopurine; nitrogen mustards; cyclophosphamide

CA-07941 KOLER, ROBERT D., Univ. Oregon Med. Sch., Portland, Ore.
research programs; carcinogenesis; cell differentiation; genetics..genetic coding; leukemia..chronic leukemia; leukemia..acute leukemia; leukemia..lymphocytic leukemia; leukemia..myeloid leukemia; blood cells..erythrocytes; enzymes; immunology..autoantibodies; immunology..isoantibodies; potentials..membrane potentials; blood proteins; molecular structure; molecules..macromolecules; tissue culture; hemolytic anemia; lymphoma; therapy evaluation; radiolabeled phosphorus; methanesulfonic acid tetramethylene ester; demecolcine; triethylene melamine; chlorambucil; leurocristine; cyclophosphamide; cancer chemotherapy; radiation therapy; fractionation

CA-07961 SHIMKIN, MICHAEL B., Sch. Med., Temple Univ., Philadelphia, Pa.
cancer chemotherapy; cooperative study; therapy evaluation; surgery; radiation therapy; lymphoma; leukemia; myeloma, bone marrow..multiple myeloma; testis neoplasms; alkylating agents; lung neoplasms

CA-07968 ENGLE, RALPH L., Jr., New York Hosp., Cornell Med. Cr., New York, N.Y.
cancer chemotherapy; therapy evaluation; cooperative study; lymphoma; leukemia..acute leukemia; leukemia..chronic leukemia; myeloma, bone marrow..multiple myeloma; Hodgkin's disease

CA-08002 BICKERS, JOHN N., Sch. Med., Louisiana State Univ., New Orleans, La.
cancer chemotherapy; cooperative study; therapy evaluation; leukemia..acute leukemia; leukemia..chronic leukemia; lymphoma; muscle neoplasms; bone neoplasms; reticuloendotheliosis; toxicology; antineoplastic agents

CA-08005 WHITCOMB, WALTER H., Veterans Admin. Hosp., Oklahoma City, Okla.
cancer chemotherapy; cooperative study; therapy evaluation; hydroxyurea; phenylalanine mustards; sarcolysin; phenozinium, 1,3--diamino--5--methyl--chloride; melanoma; kidney neoplasms; hepatoma; squamous cell carcinoma; head neoplasms; neck neoplasms; myeloma, bone marrow..multiple myeloma; leukemia..acute leukemia; lymphoma; Bence--Jones proteins

CA-08015 MILNER, WILLIAM A., Albany Med. Col., Albany, N.Y.
cancer chemotherapy; cooperative study; urinary bladder neoplasms; 5--fluorouracil; cystectomy; radiation therapy; therapy evaluation

CA-08023 SPRATT, JOHN S., Jr., Ellis Fischel State Cancer Hosp., Columbia, Mo.
research programs; cancer; leukemia..acute leukemia; leukemia..chronic leukemia; leukemia..lymphocytic leukemia; leukemia..myeloid leukemia; ascorbic acid; radiation effects; deoxyribonucleic acid; cardiovascular system; ovary neoplasms; cell adhesion; neoplastic cells; metastasis; instrumentation--methodology; cancer chemotherapy; antineoplastic agents; therapy evaluation; toxicology; radioisotopes..technetium 99; vasoactive agents..vasodilators; vasoactive agents..vasopressors; feeding behavior; body weight; cell--free systems; surgery; host--neoplasm; immunology..antigen--antibody reactions; gonadotropins; androgens; estrogens; testis neoplasms; synthesis; stereoisomers; adenosine; neoplasms invasiveness; lymph nodes; computer analysis; patient care; proteases..cathepsins; epidemiology; information exchange

CA-08025 LEONE, LOUIS A., Rhode Island Hosp., Providence, R.I.
cancer chemotherapy; cooperative study; leukemia..acute leukemia; myeloma, bone marrow; multiple myeloma; Hodgkin's disease; nephroblastoma; children; prednisone; leurocristine; methotrexate; 6--mercaptopurine; 2--bis(2--chloroethyl)amino--2H--1,3,2--oxazaphosphorinane 2--oxide; 3--(p(bis(2--chloroethyl)amino)phenyl)--l--alanine; mitomycin C; actinomycin D; therapy evaluation

CA-08034 **FRIEDELL, HYMER L., Univ. Hosps., Cleveland, Ohio**
research programs; clinical research centers; therapy evaluation; radiation therapy; ionizing radiation; neoplasms; documentation systems; computer programming; training; cancer chemotherapy; instrumentation--methodology; surgery, preoperative; lung neoplasms; esophagus neoplasms; neck neoplasms; urinary bladder neoplasms; uterus neoplasms; bone neoplasms; liver neoplasms; prostate neoplasms; diagnostic tests; x--rays; ultraviolet rays; thermography infrared; gamma rays; laminography; linear accelerators; radioisotopes.. calcium 47; radioisotopes..yttrium 90; dosage; ultrasonics; heat; cell division; deoxyribonucleic acid; proteins; nucleotides..unnatural nucleotides; antimetabolites; oxygen; endocrine glands; pinocytosis; fungi..Physarum polycephalum; cooperative study; free radicals; triplet state

CA-08043 **LINMAN, JAMES W., Veterans Admin. Res. Hosp., Chicago, Ill.**
cancer chemotherapy; cooperative study; therapy evaluation; leukemia..acute leukemia; leukemia.. chronic leukemia; lymphoma; nephroblastoma; muscle neoplasms; neuroblastoma; bone neoplasms; reticuloendotheliosis; toxicology; antineoplastic agents; dyes; diagnostic tests

CA-08080 **NYHAN, WILLIAM L., Sch. Med., Univ. Miami, Miami, Fla.**
cancer chemotherapy; cooperative study; therapy evaluation; leukemia..acute leukemia; lymphoma; nephroblastoma; sarcoma; children; hydroxyurea; methotrexate; 6--mercaptopurine; 2--bis(2--chloroethyl) amino--2H--1,3,2--oxazaphosphorinane 2--oxide; 1,3--bis--(2--chloroethyl)--1--nitrosourea; prednisone; actinomycin D; leurocristine; vincaleukoblastine

CA-08086 **GURLAND, JOHN, Sch. Med., Univ. Wisconsin, Madison, Wis.**
statistics; biomathematics; mathematical models; cancer chemotherapy; therapy evaluation; criteria; antineoplastic agents; neoplastic growth

CA-08122 **CLARK, WILLIAM A., American Type Culture Collection, Rockville, Md.**
cell culture collections; information exchange; travel; cell types; administration

CA-08223 **THURMAN, WILLIAM G., Sch. Med., Univ. Virginia, Charlottesville, Va.**
cancer chemotherapy; cooperative study; therapy evaluation; children; leukemia..acute leukemia; leukemia..chronic leukemia; lymphoma; nephroblastoma; bone neoplasms; reticuloendotheliosis; toxicology; antineoplastic agents

CA-08359 **HORSFALL, FRANK L., Jr., Sloan-Kettering Inst. Cancer Res., New York, N.Y.**
conferences..international meetings; molecules.. macromolecules; cancer

CA-09247 **CREECH, HUGH J., Cancer Research, Inc., Philadelphia, Pa.**
publications..journal; cancer; medical research

CA-09346 **WOERDEMAN, MARTINUS W., Excerpta Medica Fdn., Amsterdam, Netherlands**
publications..journal; cancer

CC-00129 **WINKELSTEIN, WARREN, Sch. Med., State Univ. New York, Buffalo, N.Y.**
research programs; longitudinal study; preventive medicine; infectious diseases; therapy evaluation; immunology..antigen--antibody reactions; age; toxicology; infant human; children; adults; ecology, human; information exchange; vaccines..poliomyelitis vaccine; vaccines..measles vaccine

CD-00038 **CLARK, THOMAS W., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.**
cooperative study; coronary diseases; diabetes; diagnostic tests; hypertension (systemic); longitudinal study; morbidity; mortality; obesity; preventive medicine; smoking

CH-00075 **SPIEGELMAN, MORTIMER, American Pub. Hlth. Assn., New York, N.Y.**
publications..monograph; epidemiology; statistics; mortality; morbidity; accidents; rheumatic diseases; cardiovascular diseases; infectious diseases; mental disorders; neoplasms; nervous system disorders; tuberculosis; venereal diseases; socioeconomics; dental health; diabetes; gastrointestinal disorders; fertility; pregnancy; family..marriage; family..divorce

CH-00076 **BRESLOW, LESTER, Cal. Dept. Public Hlth., Berkeley, Cal.**
population dynamics, human; epidemiology; cancer; coronary diseases; alcoholism; smoking

CH-00159 **WHITE, KERR L., Sch. Hygiene, Pub. Hlth., Johns Hopkins Univ., Baltimore, Md.**
public health; motivation; research potential; publication ..book; conferences; medical services

CH-00198 **WILLIAMSON, HAROLD F., Northwestern Univ., Evanston, Ill.**
conferences..international meetings; medical economics; public health; travel; geographical sites..Europe

DE-00829 **SONI, NARENDAR N., Col. Dent., Howard Univ., Washington, D.C.**
dental transplantation; dental structure..tooth germ; dental structure..teeth; salivary glands; pancreas; endocrine glands; neoplasms; hematopoiesis

DE-[illegible] **LUNDQVIST, C., International Dental Federation, Devonshire Place, London, England**
publications..dictionary; dental research; translations

DE-01493 **CAMPBELL, IRENE R., Col. Med., Univ. Cincinnati, Cincinnati, Ohio**
publications..literature survey; fluoridation; water supply; fluorides

DE-01519 **ZINNER, DORAN D., Children's Cardiac Hosp., Miami, Fla.**
bacteria..Streptococcus; vaccines; dental caries; immune sera; immunofluorescence; sugar; amino acid; cell components..cell wall; chemical structure

DE-01804 **DUBY, PAUL, Univ. Pennsylvania, Philadelphia, Pa.**
surface properties; solid state (chemistry); adsorption

DE-01912 **YOUNG, R.A., Georgia Inst. Tech., Atlanta, Ga.**
hydrogen; carbon; binding; apatites; dental structure.. dentin; bone; age; dental disease; x-ray diffraction; neutron diffraction

DE-02042 **HENNY, FRED A., Henry Ford Hosp., Detroit, Michigan**
conferences..workshop; consultation; dental surgery; travel

DE-02045 **TITCHENER, CAMPBELL B., Col. Arts, Sci., Ohio State Univ., Columbus, Ohio**
conferences..workshop; education..dental education; publications..journal; technical writing; criteria

DE-02138 **FINN, SIDNEY B., Sch. Dent., Univ. Alabama, Birmingham, Ala.**
conferences..workshop; conferences..international meetings; dental structure..pulp; travel; publications

DH-00057 **HARRIS, NORMAN O., Sch. Dent., Univ. Puerto Rico, San Juan, P.R.**
conferences..international meetings; conferences.. workshop; dental health; community service; education; geographical sites..Puerto Rico

EF-00407 **CHAPIN, F. STUART, Jr., Grad. Sch., Univ. North Carolina, Chapel Hill, N. C.**
socioenvironment..urban areas; mathematical models; land planning and development; computer analysis

EF-00596 **MANDELKER, DANIEL R., Sch. Law, Washington Univ., St. Louis, Missouri**
socioeconomics..housing; socioenvironment..urban areas; social status; community

EF-00693 **BUMPUS, DEAN F., Woods Hole Oceanographic Inst., Woods Hole, Mass.**
hydrodynamics; computer analysis; coastal waters; geographical sites..Atlantic Coast

EF-00700 **STEVENS, BENJAMIN H., Regional Sci. Res. Inst., Philadelphia, Pa.**
land planning and development; socioenvironment.. urban areas; mathematical models; computer programming; geographical sites..Pensylvania

EF-00736 **MACKIN, JOHN G., Col. Arts, Sci., Texas AM Univ., College Station, Tex.**
marine biology; mollusks; parasitic diseases; protozoa..Amoeba; disease transmission; growth, microorganisms; epizootiology

ES-00008 **CADE, THOMAS J., Sch. Liberal Arts, Syracuse Univ., Syracuse, N.Y.**
water supply; ecology, animal; population dynamics, animal; body water; geographical sites..Africa; drinking behavior; water--electrolyte balance

ES-00014 **NELSON, NORTON, New York Univ. Med. Cr., New York, N.Y.**
research programs; occupational hazards; carcinogenesis; air pollution; radiation hazards; radiation fallout; carcinogens; urinary bladder neoplasms; bronchogenic carcinoma; skin neoplasms; lung neoplasms; deoxyribonucleic acid; genetics..chromosomes; mutations; radioisotopes..radium; environmental health; food; dermatomycoses; epidemiology

ES-00016 **WILSON, BILLY R., Col. Agr., Rutgers State Univ., New Brunswick, N.J.**
pesticides; insecticides; herbicides; piscicides; soil; plants; water; fish; insects; microorganisms; carcinogenesis; reaction sites; cell components..organelles; research programs

ES-00018 **CHICHESTER, CLINTON O., Sch. Agr., Univ. California, Davis, Cal.**
conferences; agricultural chemistry; fertilizers; insecticides; fungicides; herbicides; public health; criteria; information exchange

ES-00019 **O'BRIEN, EDWARD E., Col. Eng., State Univ. New York, Stony Brook, N.Y.**
atmosphere; air flow (meteorology); air pollution

ES-00026 **SMALL, LAWRENCE F., Sch. Sci., Oregon State Univ., Corvallis, Ore.**
plankton..phytoplankton; crustaceans; zinc; environment; feeding behavior; marine biology

ES-00030 **McLIMANS, WILLIAM F., Roswell Park Mem. Inst., Buffalo, N.Y.**
research programs; cell differentiation; cell culture; cell culture collections; instrumentation-methodology; laboratory facilities; culture media; growth; hormones; nutrients; genetics; temperature; tissue respiration

ES-00032 **MEEK, PETER G., National Health Council, N.Y.C.**
conferences; public health; soil pollution; water pollution; air pollution; radiation hazards; pesticides

(contd)

INTERDISCIPLINARY (CONTD)

ES-00040 FREED, VIRGIL H., Sch. Agr., Oregon State Univ., Corvallis, Ore.
research programs; pesticides; toxicology; detoxication; environment; water pollution; soil pollution; food contamination; instrumentation--methodology; insecticides; herbicides; fungicides; metabolites; 2,4-dinitrophenol; carbamates; chlorinated hydrocarbons; organophosphorus compounds; embryology

ES-00042 EL-SAYED, SAYED Z., Col. Arts, Sci., Texas A&M Univ., College Station, Tex.
plankton..phytoplankton; population dynamics, plants; seasonal variation; growth factors; marine biology; geographical sites..Florida; geographical sites..Gulf Coast; protozoa..dinoflagellates

ES-00044 GUTHRIE, FRANK E., Inst. Biol. Sci., North Carolina State Univ. of North Carolina, Raleigh, N.C.
research programs; pesticides; toxicology; insecticides; herbicides; esterases; phosphatases; hydrolases; enzyme inhibitors..antiesterases; mathematical models; detoxication; metabolites; enzyme substrate; cell components..microsomes; reaction rates (chemistry); carbamates; oxidation; antimitotic agents; phospholipids; photochemistry; synthesis; ethanolamines; neurophysiology; reproduction; radiolabeled carbon; alkaloids; tritium; drugs resistance

ES-00047 KRUGER, PAUL, Sch. Eng., Stanford Univ., Stanford, Cal.
radiation fallout; geographical sites..United States, western; water..rain; water sampling; atmosphere; water pollution; soil pollution

ES-00052 DEICHMANN, WILLIAM B., Sch. Med., Univ. Miami, Coral Gables, Fla.
research programs; carcinogenesis; carcinogens; environment; urinary bladder neoplasms; arsenic; drugs interaction (synergism); mast cells; pregnancy..placental transfer; implants; longitudinal study; pesticides

ES-00054 STEWART, GEORGE F., Univ. California, Davis, Cal.
research programs; toxicology; documentation systems; pesticides; insecticides; herbicides; herbicides, 3--amino--1H--1,2,4--triazole; agriculture; environment; food contamination; food preservation; food processing; instrumentation--methodology; air pollution; water pollution; soil pollution; organophosphorus compounds; chlorinated hydrocarbons; aquatic animals; vegetables; DDT; arsenic; longitudinal study; fats; pregnancy.. placental transfer; milk; binding; embryology; growth factors; cell division; thalidomide; plants; birds; carcinogenesis; atmosphere; climate..humidity

ES-00068 ELIASSEN, ROLF, Sch. Eng., Stanford Univ., Stanford, Cal.
general research support; environmental health; soil pollution; air pollution; water supply; radiation hazards; sanitary engineering; land planning and development; socioenvironment..urban areas

ES-00069 CRAWFORD, BRYCE L., Grad. Sch., Univ. Minnesota, Minneapolis, Minn.
public health; environmental health; general research support; training

ES-00082 MARIENFELD, CARL J., Univ. Missouri Med. Cr., Columbia, Mo.
research programs; environmental health; trace elements; insecticides; pesticides; soil pollution; water pollution; water quality; soil sampling; water sampling

ES-00101 PEYTON, HAROLD R., Sch. Eng., Univ. Alaska, College, Alaska
soil; thermodynamics; freezing; temperature; climate; environment; geographical sites..Arctic; geographical sites..Alaska; laboratory facilities; computer programming; mathematical models; water supply; waste disposal; instrumentation--methodology; criteria

ES-00110 COOPERMAN, PHILIP, Col. Sci., Eng., Fairleigh Dickinson Univ., Teaneck, N.J.
coalescence; particle size; lasers; electromagnetic fields; instrumentation--methodology

ES-00111 MacCOLLOM, GEORGE B., Vermont Agr. Expt. Station, Burlington, Vt.
pesticides; chlorinated hydrocarbons; food contamination; crops; geophysics; air flow (meteorology); instrumentation--methodology

FR-00117 CLARK, WILLIAM A., American Type Culture Collection, Rockville, Md.
laboratory facilities; cell culture collections

FR-00130 TURNER, THOMAS B., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
laboratory animals; infectious diseases; metabolic diseases; muscular diseases; congenital abnormalities; connective tissue diseases; diagnostic tests; disease classification; statistics; screening; epizootiology

FR-00139 WHITNEY, RAE, Elmira Col., Elmira, N.Y.
laboratory animals; lemming; breeding cycles; nutrition; reproduction

FR-00140 HOWES, JAMES R., Sch. Agr., Auburn Univ., Auburn, Ala.
birds; laboratory animals; nutrition; metabolites; amino acids; fats; genetics; reproduction; infectious diseases; parasitic diseases; egg hatching

FR-00182 MARSHAK, ROBERT R., Sch. Vet. Med., Univ. Pennsylvania, Philadelphia, Pa.
research programs; veterinary medicine; fibrosarcoma; leukemia; cattle; animal facilities; genetic strains

FR-00200 COHEN, BENNETT J., Univ. Michigan, Ann Arbor, Michigan
laboratory facilities; laboratory animals; animal facilities; infectious diseases; therapy; diagnostic tests

FR-00201 ESTEP, ROGER D., Col. Med., Howard Univ., Washington, D.C.
veterinary medicine; laboratory facilities; animal facilities

FR-00202 KENT, ALLEN, Univ. Pittsburgh, Pittsburgh, Pa.
laboratory facilities; information exchange; documentation systems; instrumentation--methodology; criteria; communication theory; mathematical models

FR-00236 CLARKSON, THOMAS B., Bowman Gray Sch. Med., Winston-Salem, N.C.
infectious diseases; laboratory animals; information exchange; documentation systems; medical records

FR-00237 LISTER, JULIUS, Boston Floating Hosp., Boston, Mass.
animal facilities; laboratory animals; dogs; infant animals; veterinary medicine

FR-00257 FRENCH, JOHN D., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
instrumentation; medical electronics; research programs; brain; laboratory facilities; manpower

FR-00263 BARNETT, G. OCTO, Massachusetts Gen. Hosp., Boston, Mass.
computer centers; hospitals; computer programming; medical records; patient care; documentation systems; information exchange; communication; coding

GM-06100 MAINLAND, DONALD, Sch. Med. New York Univ., N.Y.C.
statistics; medical research; information exchange; biometry

GM-06553 ALTMAN, PHILIP L., Fed. Am. Soc. Exptl. Biol., Bethesda, Md.
publications..handbook; biology; environment

GM-06799 RATHER, LELLAND J., Stanford Univ., Palo Alto, Cal.
publications..history of medicine; concept

GM-06965 OWEN, RAY D., California Inst. Tech., Pasadena, Cal.
research programs; deoxyribonucleic acid; viruses..bacteriophage ØX174; viruses..bacteriophage MS2; virus replication; ribonucleic acid; electron transport genetics; heart arrest; amino acid sequence; membrane permeability; collagen; molecular structure; proteins

GM-07397 BAYLESS, WILLIAM A., Rockefeller Inst., New York, N.Y.
publications..journal; biophysics; cytology; biochemistry

GM-08576 HURTADO, ALBERTO, High Altitudes Res. Inst., Lima, Peru
aging; altitude; acclimatization; oxygen; respiration; cardiovascular system; endocrine glands; hematology; kidney function; exercise

GM-09243 PERKERIS, CHAIM L., Weizmann Inst. Sci., Rehovoth, Israel
x--ray diffraction; proteins; computer programming; instrumentation; crystallography; biomathematics

GM-09261 SMITH, ROBERT E., Sch. Med., Univ. California, Los Angeles, Cal.
reproduction; altitude; tissue; acclimatization; ecology; animal; temperature

GM-09262 KELLOGG, RALPH H., Sch. Med., Univ. California, San Francisco, Cal.
acclimatization; altitude; lung; respiration

GM-09263 KELLY, C.F., Sch. Eng., Univ. California, Davis, Cal.
atmosphere; temperature; thermodynamics; climate; geophysics

GM-09268 PACE, NELLO, Univ. California, Berkeley, Cal.
acclimatization; adrenal cortex hormones; adrenal medulla hormones; altitude; judgment; motivation; psychological tests; psychophysiology; respiration

GM-09616 GEORGI, CARL E., Grad. Sch., Univ. Nebraska, Lincoln, Nebr.
research programs; microbiology; training; research potential

GM-09933 CARSTENSEN, EDWIN L., Col. Eng., Univ. Rochester, Rochester, N.Y.
bacteria; binding; cells; molecules..macromolecules; ions; potentials..membrane potentials; ultrasonics

GM-10008 LEE, MILTON O., Fed. Am. Soc. Exptl. Biol., Bethesda, Md.
publications; biology; conferences; information exchange

GM-10009 LEE, MILTON O., Fed. American Soc. Biol., Washington, D.C.
information exchange; biology; publications

GM-10211 SCHMITT, FRANCIS O., Neurosciences Res. Program, Brookline, Mass.
research programs; biophysics; molecular biology; neurophysiology; learning; memory--retention; behavior; genetics; immunology; computer; communication; conferences; publications..book; training

GM-10401 CARPENTER, HARRY M., Bowman Gray Sch. Med., Winston-Salem, N.C.
documentation systems; information exchange; medical records; medical research

GM-10434 ISMAIL, A.H., Grad. Sch., Purdue Univ., West Lafayette, Ind.
computer analysis; diagnostic tests; hemiplegia; instrumentation; limbs movement; mechanical pressure; therapy evaluation

GM-11038 KATTI, SHRINIWAS K., Col. Arts, Sci., Florida State Univ., Tallahassee, Fla.
statistics; mathematical models; population dynamics, animal; computer analysis; biometry

GM-11244 PROVENZANO, ANTHONY J., Jr., Inst. Marine Sci., Miami, Fla.
marine biology; life cycle; growth; metamorphosis; taxonomy; ecology, animal; nutrients

GM-11607 WILLIAMS, JAMES S., Sch. Sci., Arts, Colorado State Univ., Fort Collins, Colo.
biomathematics; classification; criteria; statistics

GM-11640 DOOLITTLE, DONALD P., Grad. Sch. Pub. Hlth., Univ. Pittsburgh, Pittsburgh, Pa.
alloxan; criteria; mathematical models; mortality; radiation effects..whole body radiation; radiation hazards; statistics; toxins; x-rays

GM-11735 BURKHOLDER, PAUL R., Lamont Geological Observatory, Columbia Univ., Palisades, N.Y.
drugs; antibiotics; toxicology; marine biology; aquatic animals; aquatic plants; bacteria; ecology, animal; ecology, microorganisms; ecology, plants; travel; geographical sites..West Indies; geographical sites.. Indonesia; geographical sites..Antarctia

GM-11931 CINTRON-RIVERA, A.A., Sch. Med., Univ. Puerto Rico, San Juan, Puerto Rico
education..medical education; geographical sites.. Puerto Rico; information exchange; scientists; travel

GM-11932 BAUM, WALTER R., Grad. Sch., Syracuse Univ., Syracuse, N.Y.
biomathematics; chemical structure--biological activity; mathematical models; molecular shape; molecular structure

GM-11933 GRIZZLE, JAMES E., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.
blood cells..granulocytes; life cycle; radiolabeled phosphorus; mathematical models; biomathematics; computer analysis; cell death; deoxyribonucleic acid

GM-11934 FEDERSPIEL, CHARLES F., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
statistics; prediction; biometry

GM-11935 SOKAL, ROBERT R., Grad. Sch., Univ. Kansas, Lawrence, Kansas
statistics; taxonomy; biology; geographical sites.. United States; host--parasite; ecology, animal; genetics..population genetics, animal; species

GM-11940 VESTERGAARD, PER BJORN, Rockland State Hosp., Orangeburg, N.Y.
colorimetry; column chromatography; computer analysis; instrumentation-methodology; 17-ketosteroids

GM-12201 THEM, WALTER J., Route #1, McCall, Idaho
life cycle; population dynamics, animal; reproduction; ecology, animal

GM-12236 BURKS, ARTHUR W., Rackham Sch. Grad. Studies, Univ. Michigan, Ann Arbor, Mich.
research programs; biomathematics; mathematical models; computer simulation; nerves..neurons; behavior; cells; environment; communication theory

GM-12460 BAUM, GILBERT, Albert Einstein Col. Med., Bronx, N.Y.
instrumentation--methodology; ultrasonic microscopy; laboratory facilities; diagnostic tests; neoplastic growth; eye disorders; liver disorders

GM-12541 OWRE, HARDING B., Inst. Marine Sci., Miami, Fla.
invertebrates; coelenterates; annelids; mollusks; echinoderms; ecology, animal; reproduction; embryology; metamorphosis; growth; marine biology; geographical sites..Florida; climate..tropical climate

GM-12547 LINDENMAYER, ARISTID, Queens Col., City Univ. New York, Flushing, N.Y.
histogenesis; mathematical models; cells; computer analysis

GM-12574 TICK, LEO, J., Sch. Eng. Sci., New York Univ., New York, N.Y.
biomathematics; electroencephalography; electrocardiography; electromyography; computer analysis; instrumentation--methodology

GM-12635 SWINDLER, DORIS R., Col. Human Med., Michigan State Univ., East Lansing, Mich.
animates..Macaca mulatta; primates..Cercopithecus aethiops; primates..baboons; instrumentation--methodology; publications..atlas

GM-12729 HAMNER, KARL C., Sch. Med., Univ. California, Los Angeles, Cal.
computer analysis; cyclic functions; plants.. leaves; photoperiodism

GM-12822 EDEN, MURRAY, Massachusetts Inst. Tech., Cambridge, Mass.
conferences..international meetings; geographical sites..Japan; biomedical engineering; travel

GM-12867 LEHMAN, J. STAUFFER, Hahnemann Med. Col., Hosp., Philadelphia, Pa.
diagnostic tests; instrumentation--methodology; ultrasonics; abdominal viscera

GM-12868 GREENBERG, BERNARD G., Sch. Pub. Hlth., Univ. North Carolina, Chapel Hill, N.C.
statistics; computer programming; research potential; chemotherapy; dentistry; injuries..wound healing; behavior rating scales; genetics

GM-12869 CHU, JOHN T., Moore Sch. Elec. Eng., Univ. Pennsylvania, Philadelphia, Pa.
statistics; decision--making; medical research; computer

GM-12873 SIEGEL, BENJAMIN M., Col. Eng., Cornell Univ., Ithaca, N.Y.
electron microscopy; instrumentation--methodology; optics; crystal

GM-12892 WILLARD, MARY L., Col. Sci., Pennsylvania State Univ., University Park, Pa.
conferences..international meetings; microchemistry; geographical sites..Pennsylvania; travel; instrumentation--methodology

GM-13005 LE CAM, LUCIEN, Col. Letters, Sci., Univ. California, Berkeley, Cal.
conferences; geographical sites..United States; travel; statistics; communication theory; epidemiology; carcinogenesis; genetics; nervous system

GM-13006 HABEL, ROBERT E., New York State Vet. Col., Cornell Univ., Ithaca, N.Y.
travel; conferences; veterinary medicine; anatomy; geographical sites..Germany

GM-13113 FOODEN, JACK, Chicago Natural History Museum, Chicago, Ill.
primates..Macaca; taxonomy; ecology..animal; species; phylogeny

GM-13138 GANI, JOSEPH M., Col. Natural Sci., Michigan State Univ., East Lansing, Mich.
biomathematics; mathematical models; host--virus; viruses..bacteriophage; genetics..population genetics, microorganisms; genetics..genes; epidemiology

GM-13227 BRAVERMAN, MAXWELL H., Carnegie Inst. Tech., Pittsburgh, Pa.
computer simulation; instrumentation--methodology; coelenterates; growth; mathematical models; cell differentiation

GM-13231 HOLMES, JOSEPH H., Univ. Colorado Med. Ctr., Denver, Colo.
conferences..international meetings; publications; ultrasonics; diagnostic tests; instrumentation--methodology; neurology; neurosurgery; heart diseases; ophthalmology; reproductive system.. female; gastrointestinal disorders; urinary tract disorders; toxicology; veterinary medicine

GM-13555 HARTMAN, RICHARD E., New York Med. Col., New York, N.Y.
electron microscopy; instrumentation--methodology

HD-00126 CHEEK, DONALD B., Johns Hopkins Hosp., Baltimore, Md.
research programs; longitudinal study; growth; children; congenital heart disease; cell water; body water; muscle cells; liver cells; skeleton; dental structure; collagen; proteins; deoxyribonucleic acid; amino acid; creatinine; hydroxyproline; heart function; blood flow; personality; intelligence tests; heart surgery; somatotropin; estrogens; androgens; age

HD-00127 NYHAN, WILLIAM L., Sch. Med., Univ. Miami, Miami, Fla.
growth; children; congenital heart disease; amino acid; tritium; muscle cells; blood cells, erythrocytes; heart surgery; cooperative study

HD-00181 WALKER, GEOFFREY F., 1701 1/2 Fitzwater St., Philadelphia, Pa.
age; bone..skull; cephalometry; computer analysis; ethnic groups; growth; instrumentation-methodology; prediction; sex difference

HD-00215 KASS, EDWARD H., Sch. Med., Harvard Univ., Cambridge, Mass.
bacteriuria; pyelonephritis; heart intracardiac volume; cardiorenal disorders; socioeconomics; mortality; pregnancy..premature delivery; pregnancy..perinatal; nervous system disorders; blood volume

HD-00599 TOBIS, JEROME S., Montefiore Hosp., N.Y.C.
aging; hospitals patients; exercise; physical fitness; neuromuscular disorders; rehabilitation; pulmonary function; blood circulation dynamics; conditioning; training; myocardial infarct

HD-00669 KOHN, ROBERT R., Western Reserve Univ., Cleveland, Ohio
research programs; aging; conferences; information exchange; genetics; connective tissue; chronic disorders; nutrition; reproductive system; atherosclerosis; radiation effects; growth; cell differentiation; endocrinology

(contd)

INTERDISCIPLINARY (CONTD)

HD-00781 **TAYLOR, E. STEWART,** Univ. Colorado Med. Cr., Denver, Colo.
research programs; infant human..premature infants; pregnancy..childbirth; pregnancy..amniotic fluid; preventive medicine; pregnancy toxemias and hypertension..eclampsia; tritium; radiolabeled sodium; pituitary hormones..neurohypophyseal hormones; steroid hormones; ion exchange and transport; diabetes; hypoglycemia; pulmonary heart disease; hyaline membrane disease, pulmonary; cooperative study; longitudinal study

HD-00963 **VAN HUSS, WAYNE D.,** Michigan State Univ., East Lansing, Mich.
exercise; age; muscles; body composition; appetite; longevity; sex difference; cholesterol; capillaries

HD-01151 **LUCEY, JEROLD F., DeGoesbriand Mem. Hosp.,** Burlington, Vt.
conferences..international meetings; surgery; fetus; uterus; pregnancy; pregnancy loss; erythroblastosis fetalis; blood groups..Rh factors; congenital abnormalities; blood transfusion; bone marrow transplantation; bile acids and salts; diagnostic tests; instrumentation--methodology

HD-01159 **RICHMOND, JULIUS B., Upstate Med. Cr., State Univ.** New York, Syracuse, N.Y.
conferences; family, parent--child; dyadic interaction; publications

HD-01224 **SMITH, RICHARD T., Col. Med., Univ. Florida,** Gainesville, Fla.
conferences, international meetings; conferences, workshop; immunology; embryology

HD-01452 **NISONGER, HERSCHEL W., AAMD Program Services** Office, Columbus, Ohio
conferences; classification; mental retardation; travel

HD-01465 **TOUSTER, OSCAR, Col. Arts, Sci., Vanderbilt Univ.,** Nashville, Tenn.
conferences; biochemistry; travel

HD-01585 **RIDLEY, JEANNE C., Grad. Sch. Pub. Hlth., Univ.** Pittsburgh, Pittsburgh, Pa.
computer simulation; reproduction; population dynamics, human; statistics; socioculture; mathematical models; sex difference

HD-01623 **SINEX, F. MAROTT, Sch. Med., Boston Univ., Boston,** Mass.
conferences; aging; genetics..chromosomes; genetics.. gene expression; mutation; messenger ribonucleic acid; nucleic acids; immunology; longevity; nucleoproteins

HD-01958 **PINCUS, GREGORY, Worcester Fdn. Exptl. Biol.,** Shrewsbury, Mass.
conferences..international meetings; endocrinology; travel

HE-00955 **KINSELL, LAURANCE W., Highland-Alameda County Hosp.,** Oakland, Cal.
diet; hormones; lipids; lipids blood..serum lipids; fish oils; fatty acids; triglycerides; hyperlipemia; atherosclerosis; xanthomatosis; diabetes; alcohols; egg yolk

HE-03103 **OWEN, RAY D., California Inst. Tech., Pasadena, Cal.**
research programs; neurophysiology; biochemistry; proteins; biophysics; nucleic acids; embryology; genetics; viruses; cell biology

HE-04244 **WALKER, ALEXANDER R.P., South African Inst. Med.** Res., Johannesburg, South Africa
coronary diseases; ethnic groups..Bantu; diet; environment; blood pressure; sodium chloride; blood..serum; cholesterol; smoking

HE-04601 **LUNGBERG, WALTER O., Hormel Inst., Austin, Minn.**
lipids; fatty acids; biological compounds preparation

HE-04672 **FIDANZA, FLAMINIO, St. Camillo Hosp., Rome, Italy**
epidemiology; heart diseases; geographical sites..Italy; occupations; body build; diet; longitudinal study; cooperative study

HE-04754 **KARVONEN, MARTTI J., Inst. Occupational Hlth.,** Helsinki-Toolo, Finland
epidemiology; heart diseases; geographical sites.. Finland; diet; longitudinal study; smoking; cholesterol; blood pressure; exercise

HE-04763 **CRAWFORD, E. STANLEY, Col. Med., Baylor Univ.,** Houston, Tex.
cerebroarterial occlusions extracranial; cerebrovascular disorders; cooperative study

HE-04765 **GURDJIAN, ELISHA S., Sch. Med., Wayne State Univ.,** Detroit, Mich.
cerebroarterial occlusions extracranial; cerebrovascular disorders; cooperative study; endartectomy; thrombectomy

HE-04766 **SHILLITO, JOHN, Jr., Children's Hosp., Boston, Mass.**
angiography; blood vessels restoration; blood vessels shunts; cerebroarterial occlusions extracranial; cerebrovascular disorders; cooperative study; thrombectomy

HE-04767 **MEYER, JOHN S., Sch. Med., Wayne State Univ.,** Detroit, Mich.
blood vessels restoration; blood vessels shunts; brain ischmeia and hypoxia; cerebroarterial occlusions extracranial; cerebrovascular disorders; cooperative study

HE-04769 **OJEMANN, ROBERT G., Massachusetts Gen. Hosp.,** Boston, Mass.
cerebroarterial occlusions extracranial; cooperative study; blood pressure; cerebrovascular disorders; blood flow; brain..cerebral cortex

HE-04774 **BUZINA, RATKO, Inst. Pub. Hlth., Zagreb, Yugoslavia**
epidemiology; heart diseases; geographical sites.. Yugoslavia; atherosclerosis; myocardial infarct; coronary diseases; socioenvironment; socioeconomics; longitudinal study; smoking

HE-04775 **REID, DONALD D., Sch. Hyg., Tropical Med.,** London Univ., London, England
heart diseases; respiratory diseases; geographical sites.. British Isles; geographical sites..United States; smoking; medical records; cardiovascular diseases; survey; questionnaire; air pollution; geographical sites.. Norway

HE-04778 **MURPHEY, FRANCIS, Col. Med., Univ. Tennessee,** Memphis, Tenn.
blood circulation dynamics; blood coagulation..anticoagulants; cerebroarterial occlusions extracranial; cerebrovascular disorders; cooperative study; electrolytes

HE-04850 **WYLIE, EDWIN J., Sch. Med., Univ. California,** San Francisco, Cal.
blood vessels restoration; cerebroarterial occlusions extracranial; cerebrovascular disorders; cooperative study

HE-04885 **DETWEILER, DAVID K., Sch. Vet. Med., Univ.** Pennsylvania, Philadelphia, Pa.
research programs; education..universities; cardiovascular system; cardiovascular diseases; training; veterinary medicine; blood circulation dynamics; heart failure.. congestive heart failure; heart potentials..membrane potentials; atherosclerosis; pulsatile perfusion pump; arrhythmia (cardiac); congenital heart disease; information exchange; electrical defibrillation

HE-04943 **LYONS, CHAMP, Univ. Alabama Med. Cr.,** Birmingham, Ala.
brain ischemia and hypoxia; cerebroarterial occlusions extracranial; cooperative study

HE-05054 **MULDER, DONALD G., Sch. Med., Univ. California,** Los Angeles, Cal.
cooperative study; cerebroarterial occlusions extracranial; blood coagulation..anticoagulants; therapy evaluation; diagnostic tests

HE-05213 **ROBERTS, BROOKE, Sch. Med., Univ. Pennsylvania,** Philadelphia, Pa.
cooperative study; cerebroarterial occlusions extracranial; blood vessels restoration; blood coagulation.. anticoagulants; therapy evaluation; diagnostic tests

HE-05471 **VAN BUCHEM, FRANS S.P., Univ. Groningen,** Haarlem, Netherlands
adults; cholesterol; epidemiology; geographical sites.. Netherlands; heart diseases; longitudinal study; vascular disorders

HE-05680 **AHRENS, EDWARD H., Jr., Lipid Research Inc.,** Rockefeller Inst., New York, N.Y.
publications..journal; lipids

HE-05687 **SIMEONE, F.A., Cleveland Metropolitan Gen. Hosp.,** Cleveland, Ohio
cooperative study; cerebroarterial occlusions extracranial; blood vessels restoration; blood coagulation.. anticoagulants; therapy evaluation; diagnostic tests

HE-05688 **CREECH, OSCAR, Jr., Sch. Med., Tulane Univ.,** New Orleans, La.
brain ischemia and hypoxia; cerebroarterial occlusions extracranial; cerebrovascular disorders; cooperative study

HE-05695 **BEARMAN, JACOB E., Univ. Minnesota,** Minneapolis, Minn.
warfarin; heparin; cooperative study; blood coagulation.. anticoagulants; myocardial infarct; statistics; cardioactive agents..antiarrhythmic agents

HE-05965 **MELTZER, LAWRENCE E., Presbyterian Hosp.,** Philadelphia, Pa.
coronary disorders; therapy evaluation; mortality; cardioactive agents..antiarrhythmic agents; quinidine; procaine amide; myocardial infarct; arrhythmia, cardiac; electrocardiography monitor; patient care

HE-05973 **GAZES, PETER C., Med. Col. South Carolina,** Charleston, S. C.
heparin; warfarin; myocardial infarct; lipoproteins; mortality; morbidity; cooperative study; blood coagulation, anticoagulants; cardioactive agents, antiarrhythmic agents; procaine amide; quinidine

HE-05998 **QUILLIGAN, J.J., Jr., Loma Linda Univ.,** Los Angeles, Cal.
vaccines..influenza virus vaccines; respiratory diseases; immunology..antibodies; dosage; children; vaccines.. viral vaccines; viruses..respiratory viruses

HE-06003 **FELDMAN, HARRY A., Upstate Med. Cr., State Univ.,** New York, Syracuse, N.Y.
heart failure, congestive heart failure; rheumatic fever; influenza

HE-06007 **PAGE, IRVINE H., Cleveland Clinic Fdn.,** Cleveland, Ohio
diet; lipids..serum lipids; myocardial infarct; atherosclerosis

HE-06101 **TYLER, WALTER S., Sch. Vet. Med., Univ. California,** Davis, Cal.
pulmonary emphysema; arteries..bronchial arteries; pulmonary airway resistance; immunity, autoimmunity

HE-06182 **SELYE, HANS, Univ. Montreal, Montreal, Canada**
preventive medicine; therapy; cardiovascular diseases; stress; kidney; atherosclerosis; calcium; adrenal cortex hormones

HE-06222 **AHRENS, EDWARD H., Jr., Rockefeller Inst., N.Y.C.**
lipids

HE-06279 **HURWITT, ELLIOTT S., Montefiore Hosp., N.Y.C.**
angiography; blood vessels shunts; cerebroarterial occlusions extracranial; cerebrovascular disorders; cooperative study; endartectomy; thrombectomy

HE-06292 SMITH, JOHN R., Sch. Med., Washington Univ., St. Louis, Mo.
research programs; cardiovascular diseases; laboratory facilities

HE-06298 FIELDS, WILLIAM S., Col. Med., Baylor Univ., Houston, Tex.
cooperative study; laboratory facilities; cerebrovascular disorders; cerebroarterial occlusions extracranial; computer

HE-06343 WILKINS, ROBERT, Massachusetts Mem. Hosps., Boston, Mass.
hypercholesteremia; cholesterol inhibitors; diet; atherosclerosis; coronary diseases; cholesterol; conferences

HE-06344 MEDEARIS, DONALD N., Jr., Johns Hopkins Hosp., Baltimore, Md.
longitudinal study; respiratory diseases; congenital heart disease; rheumatic fever; rheumatic heart diseases; myocarditis; family..parent--child

HE-06354 MAXWELL, MORTON H., Sch. Med., Univ. California, Los Angeles, Cal.
cooperative study; renal hypertension; diagnostic tests; kidney revascularization; therapy; antihypertensive agents

HE-06375 KATZ, LOUIS N., Michael Reese Hosp., Chicago, Ill.
research programs; cardiovascular system; atherosclerosis; hypertension (systemic); lipids; blood vessels; histochemistry; heart function; blood circulation dynamics; cardioactive agents; phonocardiography; arrhythmia, cardiac; psychophysiology; pulmonary hypertension; heart..myocardium; lymphatic system; heart failure..congestive heart failure; electrophysiology; electrocardiography; vectorcardiography

HE-06622 MERSKEY, CLARENCE, Albert Einstein Col. Med., Bronx, N.Y.
blood coagulation; anticoagulants; therapy evaluation; coronary diseases; age; sex difference; mortality; heart diseases

HE-06644 WINTER, CHESTER C., Ohio State Univ. Hosp., Columbus, Ohio
cooperative study; renal hypertension; medical records; kidney function; statistics; renal arterial occlusions and stenosis; kidney revascularization; therapy evaluation; angiotensin

HE-06645 HURWITT, ELLIOTT S., Montefiore Hosp., N.Y.C.
cooperative study; kidney circulation; kidney revascularization; renal arterial occlusions and stenosis; renal hypertension

HE-06647 SCOTT, H. WILLIAM, Jr., Vanderbilt Univ. Hosp., Nashville, Tenn.
arteries..renal artery; cooperative study; renal arterial occlusions and stenosis; renal hypertension

HE-06648 LYONS, CHAMP, Univ. Alabama Med. Cr., Birmingham, Ala.
cooperative study; renal hypertension; kidney revascularization

HE-06649 STAMEY, THOMAS A., Sch. Med., Stanford Univ., Palo Alto, Cal.
cooperative study; renal hypertension

HE-06650 DeCAMP, PAUL T., Alton Ochsner Med. Fdn., New Orleans, La.
cooperative study; diagnostic tests; kidney function; kidney revascularization; renal arterial occlusions and stenosis; renal hypertension; surgery; therapy

HE-06651 MORRIS, GEORGE C., Jr., Col. Med., Baylor Univ., Houston, Tex.
arteries..renal artery; cooperative study; kidney revascularization; renal arterial occlusions and stenosis; renal hypertension

HE-06652 O'CONOR, VINCENT J., Jr., Sch. Med., Northwestern Univ., Chicago, Ill.
cooperative study; renal hypertension; renal arterial occlusions and stenosis; kidney function; radiolabeled; kidney revascularization; renography; angiography

HE-06653 YOUNG, JOHN D., Sch. Med., Univ. Maryland, Baltimore, Md.
cooperative study; kidney function; kidney revascularization; renal arterial occlusions and stenosis; renal hypertension; renal ischemia and hypoxia; surgery; therapy

HE-06654 HOOBLER, SIBLEY W., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
cooperative study; renal hypertension; renal arterial occlusions and stenosis; diagnostic tests

HE-06657 McDONALD, DONALD F., Sch. Med., Univ. Rochester, Rochester, N.Y.
arteries..renal artery; cooperative study; renal arterial occlusions and stenosis; renal hypertension

HE-06658 BURROWS, BELTON A., Massachusetts Mem. Hosp., Boston, Mass.
cooperative study; renal hypertension; renal arterial occlusions and stenosis; arteries.. renal artery

HE-06672 ROTH, OSCAR, Hosp. St. Raphael, New Haven, Conn.
cooperative study; heparin; warfarin; therapy evaluation; longitudinal study; myocardial infarct; cardioactive agents ..antiarrhythmic agents

HE-06687 JULIAN, ORMAND C., Presbyterian-St. Luke's Hosp., Chicago, Ill.
cooperative study; renal hypertension; kidney circulation; renal arterial occlusions and stenosis; kidney revascularization

HE-06718 WRIGHT, IRVING S., Sch. Med., Cornell Univ., New York, N.Y.
conferences..international meetings; blood coagulation; thrombosis; embolism

HE-06998 BLAISDELL, F. WILLIAM, Veterans Admin. Hosp., San Francisco, Cal.
cooperative study; cerebroarterial occlusions extracranial; blood vessels restoration; blood coagulation.. anticoagulants; therapy evaluation; diagnostic tests

HE-07003 ARING, CHARLES D., Cincinnati Gen. Hosp., Cincinnati, Ohio
cooperative study; cerebroarterial occlusions extracranial; blood vessels restoration; blood coagulation.. anticoagulants; therapy evaluation; diagnostic tests

HE-07007 LAMBERT, EDWARD C., Children's Hosp., Buffalo, N.Y.
congenital heart diseases..septal defect; valvular heart diseases..aortic valve stenosis; age; electrocardiography; cooperative study

HE-07010 SIMONSON, ERNST, Mt. Sinai Hosp., Minneapolis, Minn.
publications..literature survey; geographical sites..USSR; statistics; cardiovascular system; coronary diseases; rehabilitation; nervous system..central nervous system; aging; heart failure..congestive heart failure

HE-07011 MAXWELL, MORTON H., Sch. Med., Univ. California, Los Angeles, Cal.
cooperative study; renal hypertension; renal arterial occlusions and stenosis; arteries..renal artery; kidney revascularization

HE-07018 RANSOHOFF, JOSEPH, Sch. Med., New York Univ., N.Y.C.
cerebrovascular disorders; blood vessels restoration; enzymes; thrombolysis; cooperative study; longitudinal study; biometry; therapy evaluation; rehabilitation; cerebroarterial occlusions extracranial; arteries..carotid artery; blood flow

HE-07097 SCHUMAN, LEONARD M., Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.
conferences; chronic disease; education, medical education; public health

HE-07278 DERRICK, JOHN R., Univ. Texas Med. Br., Galveston, Tex.
arteries..renal artery; hypertension (systemic); proteases.. renin; catheterization; oxygen; renal arterial occlusions and stenosis; atherosclerosis; blood vessels restoration; polarography; congenital abnormalities; kidney revascularization

HE-07291 STARE, FREDERICK J., Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
cooperative study; epidemiology; diet; heart diseases; coronary diseases; geographical sites..United States; cholesterol; adults

HE-07292 KINSELL, LAWRENCE W., Highland-Alameda County Hosp., Oakland, Cal.
cooperative study; epidemiology; diet; heart diseases; coronary diseases; geographical sites..United States; cholesterol; adult; lipids; atherosclerosis

HE-07298 TER-POGOSSIAN, MICHEL M., Sch. Med., Washington Univ., St. Louis, Mo.
cyclotron; radioisotopes..oxygen 15; radioisotopes..carbon 11; radioisotopes..fluorine 18; radioisotopes..iron 52; radioisotopes..iodine 125; oxygen transport; hemoglobin; pulmonary function; heart diseases; neoplasms; blood collateral circulation; thyroid function; dentistry

HE-07328 ABRAMS, HERBERT L., Sch. Med., Stanford Univ., Palo Alto, Cal.
cooperative study; renal hypertension; renography

HE-07329 STAMLER, JEREMIAH, Chicago Bd. Hlth., Chicago, Ill.
cooperative study; epidemiology; diet; heart diseases; coronary diseases; geographical sites..United States; cholesterol; adults

HE-07369 HEYMAN, ALBERT, Duke Univ. Med. Cr., Durham, N.C.
cerebroarterial occlusions (extracranial); blood vessels restoration; atherosclerosis; cerebroarterial occlusions and thrombosis; cerebrovascular disorders; brain hypoxia.. ischemia; cooperative study; clinical study

HE-07380 BAKER, BENJAMIN M., Johns Hopkins Hosp., Baltimore, Md.
cooperative study; epidemiology; diet; heart diseases; coronary diseases; geographical sites..United States; cholesterol adults

HE-07381 KEYS, ANGEL, Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.
cooperative study; epidemiology; diet; heart diseases; coronary diseases; geographical sites..United States; cholesterol; adults

HE-07410 FRANTZ, IVAN D., Jr., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
cooperative study; epidemiology; diet; heart diseases; atherosclerosis; psychiatric patients; cholesterol; adults

HE-07589 ARANA-INIGUEZ, ROMAN, Univ. de la Republica, Montevideo, Uruguay
cerebroarterial occlusions extracranial; brain ischemia and hypoxia; thrombectomy; endarterectomy; blood vessels shunts; cooperative study; cerebrovascular disorders

HE-07609 CORRELL, JAMES W., Col. Phys., Surg., Columbia Univ., New York, N.Y.
cooperative study; cerebroarterial occlusions extracranial; blood vessels restoration; blood coagulation..anticoagulants; therapy evaluation; diagnostic tests

(contd)

INTERDISCIPLINARY (CONTD)

HE-07614 ABELMANN, WALTER H., Boston City Hosp., Boston, Mass.
blood; blood circulation dynamics; gases; influenza; pneumonia; pulmonary circulation; respiratory diseases.. acute respiratory diseases

HE-07798 THOMAS, JOHN, Meharry Med. Col., Nashville, Tenn.
renal hypertension; ethnic groups..Negroes; surgery; therapy evaluation; diagnostic tests; epidemiology

HE-07922 ROB, CHARLES G., Univ. Rochester, Rochester, N.Y.
cerebrovascular disorders; arterial stenosis; thrombectomy; endarterectomy; blood vessels shunts; cerebroarterial occlusions extracranial; cooperative study

HE-07923 ROSEMAN, EPHRAIM, Louisville Gen. Hosp., Louisville, Ky.
cooperative study; cerebroarterial occlusions extracranial; blood vessels restoration; blood coagulation.. anticoagulants; therapy evaluation; diagnostic tests

HE-07944 ETTINGER, MILTON G., Minneapolis Gen. Hosp., Minneapolis, Minn.
cooperative study; cerebroarterial occlusions extracranial; cerebrovascular disorders; endarterectomy; blood vessels shunts; thrombectomy; cerebrovascular surgery; angiography

HE-07972 KURZE, THEODORE, Sch. Med., Univ. Southern California, Los Angeles, Cal.
cooperative study; cerebroarterial occlusions extracranial; blood vessels restoration; blood coagulation..anticoagulants; therapy evaluation; diagnostic tests

HE-08198 PIRANI, CONRAD L., Col. Med., Univ. Illinois, Chicago, Ill.
renal hypertension; arteries, renal artery; kidney disorders; diagnostic tests

HE-08212 KITCHELL, J. RODERICK, Abington Memorial Hosp., Abington, Pa.
cardioactive agents..antiarrhythmic agents; blood coagulation..anticoagulants; myocardial infarct; cooperative study

HE-08217 SMITH, WILLIAM M., U.S. Public Health Service Hosp., San Francisco, Cal.
hypertension (systemic); chemotherapy; therapy evaluation; cooperative study

HE-08337 FRANKLIN, DEAN L., Scripps Clinic, Res. Fdn., La Jolla, Cal.
instrumentation--methodology; ultrasonic flowmeter; blood flow; blood circulation dynamics

HE-08455 ROBERTS, JAMES C., Jr., St. Joseph Hosp., Burbank, Cal.
conferences; atherosclerosis; publications..book; pathology

HE-08463 WOLFF, FREDERICK W., New York Med. Col., N.Y.C.
antihypertensive agents; benzothiadiazine; drugs tolerance; hypercalycemia; hypertension, systemic; hyperuricemia; kidney function; longitudinal study; psychological tests; renal hypertension; therapy evaluation

HE-08478 LEE, MILTON O., Fed. American Soc. Expti. Biol., Bethesda, Md.
conferences; cardiovascular diseases

HE-08725 GROOVER, MARSHALL E., Jr., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
atherosclerosis; cardiovascular diseases; congenital abnormalities; behavior; environment; nutrition; bone marrow; blood coagulation; heparin; aging; neoplasms; parasites; anthropometry; social space; brain; life cycle; research programs

HE-08737 PARRY, WILLIAM L., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
cooperative study; renal hypertension; therapy evaluation; diagnostic tests; drugs; kidney revascularization

HE-08773 SWAN, HAROLD J.C., Mayo Assn., Rochester, Minn.
heart catheterization; diagnostic tests; heart diseases; angiocardiography; cooperative study; morbidity

HE-08798 MARMORSTON, JESSIE, Sch. Med., Univ. So. California, Los Angeles, Cal.
cooperative study; coronary disorders; estrogens; androgens; thyroxine analogs; nicotinic acid; myocardial infarct; longitudinal study; therapy evaluation; drugs

HE-08888 KLIMT, CHRISTIAN R., Sch. Med., Univ. Maryland, Baltimore, Md.
cooperative study; coronary disease; drugs; therapy evaluation; cholesterol inhibitors

HE-08889 STAMLER, JEREMIAH, Presbyterian-St. Lukes Hosp. Chicago, Ill.
cooperative study; coronary disease; drugs; therapy evaluation

HE-08890 BEST, MAURICE M., Sch. Med., Univ. Louisville, Louisville, Ky.
cooperative study; coronary disease; drugs; therapy evaluation

HE-08891 GALLUZZI, NICHOLAS J., USPHS Hosp., Staten Island, N.Y.
cooperative study; coronary disease; drugs; therapy evaluation

HE-08892 BERGE, KENNETH G., Mayo Assn., Rochester, Minn.
cooperative study; coronary disease; drugs; therapy evaluation

HE-08983 STAMLER, JEREMIAH, Chicago Heart Assn., Chicago, Ill.
conferences..international meetings; epidemiology; hypertension (systemic)

HE-09008 BRUETMAN, MARTIN E., Inst. Torcuato di Tella, Buenos Aires, Argentina
cerebroarterial occlusions extracranial; cerebroarterial occlusions and thrombosis; blood coagulation..anticoagulants; cerebrovascular surgery; therapy evaluation; survey; medical records

HE-09212 SAWYER, PHILIP N., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
conferences..international meetings; thrombosis; travel; biophysics

HE-09251 AKERS, WILLIAM W., Rice Univ., Houston, Tex.
research programs; cooperative study; heart..artificial heart; instrumentation..methodology; extracorporeal circulation; hemolysis; blood flow; viscosity; tensile strength; plastics; implants; surface properties; atmospheric pressure; biomathematics

HE-09252 DeBAKEY, MICHAEL E., Col. Med., Baylor Univ., Houston, Tex.
research programs; cooperative study; heart artificial heart; heart..ventricles; heart bypass; instrumentation-methodology; hemolysis; blood coagulation; blood flow; plastics; tensile strength; transplantation rejection; implants; carcinogenesis; staphylococcal infections

HE-09425 SHILLING, CHARLES W., George Washington Univ., Washington, D.C.
documentation systems; information exchange; cardiovascular system

HE-09426 STAMLER, JEREMIAH, Chicago Bd. Hlth., Chicago, Ill.
epidemiology; hypertension (systemic); atherosclerosis; cardiovascular diseases; blood pressure; body weight; socioeconomics; ethnic groups..race; smoking; diet; exercise; longitudinal study; cholesterol; blood sugar; heart rate

HE-09427 DETERLING, RALPH A., Jr., Internatl. Cardiovascular Soc., Boston, Mass.
conferences..international meetings; geographical sites ..Pennsylvania; travel; cardiovascular diseases; physiology

HE-09430 ROSENBLATT, WILLIAM H., St. Dominic-Jackson Mem. Hosp., Jackson, Miss.
cooperative study; cardioactive agents..antiarrhythmic agents; blood coagulation..anticoagulants; myocardial infarct; therapy evaluation

HE-09466 WELT, ISAAC D., American Univ., Washington, D.C.
cardiovascular system; cardioactive agents; documentation systems; publications

HE-09474 LAMBERT, EDWARD C., Children's Hosp., Buffalo, N.Y.
congenital heart disease..septal defect; valvular heart diseases..aortic valve stenosis; valvular heart diseases..pulmonary valve stenosis; medical records; cooperative study; longitudinal study; blood circulation dynamics; heart catheterization; heart surgery; autopsy; children; surgery..post-operative; extracorporeal circulation

HE-09496 JULIAN, ORMAND C., Presbyterian-St. Luke's Hosp., Chicago, Ill.
cooperative study; therapy evaluation; heart surgery; surgery..preoperative; heart diseases; heart prosthesis

HE-09502 MILLIKAN, CLARK, Mayo Clinic, Rochester, Minn.
cerebrovascular disorders; research potential; training

HE-09560 McGANDY, ROBERT B., Harvard Sch. Pub. Hlth., Boston, Mass.
lipids..serum lipids; children..adolescence; feeding behavior; nutrition; growth; body composition; stress; cholesterol; atherosclerosis

HE-09564 MERRILL, IRVING R., Univ. California Med. Cr., San Francisco, Cal.
television; education..postgraduate education; education..medical education; success--failure; computer programming

HE-09579 McGANDY, ROBERT B., Harvard Sch. Pub. Hlth., Boston, Mass.
diet; hypolipemia..hypocholesteremmia; blood cells ..erythrocytes; fatty acids; cholesterol; body weight; lipids..serum lipids; psychophysiology; longitudinal study; heart

HE-09686 FRANTZ, IVAN D., Jr., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
cardiovascular diseases; myocardial infarct; atherosclerosis; diet; fats; unsaturated fats; therapy evaluation

HE-09698 BRANDT, EDWARD N., Jr., Univ. Oklahoma Med. Cr., Oklahoma City, Okla.
epidemiology; cerebrovascular disorders; geographical sites..Asia; ethnic groups; genetics; socioculture; lipids

HE-09703 HINMAN, EDWARD J., USPHS Hosp., Baltimore, Md.
cooperative study; pyelonephritis; renal hypertension; antibiotics; therapy evaluation; kidney function; sulfamethizole; nitrofurantoin; methenamine

HE-09750 SMITH, WILLIAM M., U.S. Pub. Hlth. Service Hosp., San Francisco, Cal.
cooperative study; pyelonephritis; renal hypertension; antibiotics; therapy evaluation; kidney function; sulfamethizole; nitrofurantoin; methenamine

HE-09751 DAMATO, ANTHONY N., U.S. Pub. Hlth. Service Hosp., Staten Island, N.Y.
cooperative study; pyelonephritis; renal hypertension; antibiotics; therapy evaluation; kidney function; sulfamethizole; nitrofurantoin; methenamine

HE-09752 GARFIELD, CLAUDE R., USPHS Hosp., Norfolk, Va.
cooperative study; pyelonephritis; renal hypertension; antibiotics; therapy evaluation; kidney function; sulfamethizole; nitrofurantoin; methenamine

HE-09753 GRIEP, ROBERT J., U.S. Pub. Hlth. Service Hosp., Seattle, Wash.
cooperative study; pyeloneohritis; renal hypertension; antibiotics; therapy evaluation; kidney function; sulfamethizole; nitrofurantoin; methenamine

HE-09754 HERBERT, STEPHEN J., USPHS Hosp., New Orleans, La.
cooperative study; pyelonephritis; renal hypertension; antibiotics; therapy evaluation; kidney function; sulfamethizole; nitrofurantoin; methenamine

HE-09755 HINMAN, EDWARD J., U.S. Pub. Hlth. Service Hosp., Baltimore, Md.
cooperative study; pyeloneohritis; renal hypertension; antibiotics; therapy evaluation; kidney function; sulfamethizole; nitrofurantoin; methenamine

HE-09756 RICHARDSON, JAMES A., U.S. Pub. Hlth. Service Hosp., San Francisco, Cal.
cooperative study; pyeloneohritis; renal hypertension; antibiotics; therapy evaluation; kidney function; sulfamethizole; nitrofurantoin; methenamine

HE-09757 THURM, RICHARD H., USPHS Hosp., Boston, Mass.
cooperative study; pyelonephritis; renal hypertension; antibiotics; therapy evaluation; kidney function; sulfamethizole; nitrofurantoin; methenamine

HE-09766 SHERRY, SOL, Sch. Med., Washington Univ., St. Louis, Mo.
coronary occlusions and thrombosis; plasmokinases..urokinase; blood coagulation..anticoagulants; therapy evaluation

HE-09821 BROWN, IVAN W., Jr., Duke Univ. Med. Cr., Durham, N.C.
conferences..international meetings; hyperbaric oxygenation; geographical sites..North Carolina; travel

HE-10020 SHERRY, SOL., Sch. Med., Washington Univ., St. Louis, Mo.
blood coagulation..urokinase; therapy evaluation; blood coagulation..anticoagulants; myocardial infarct; thrombosis; peripheral vascular system; toxicology; laboratory facilities

HE-10117 DUSTAN, HARRIET P., The Cleveland Clinic Fdn., Cleveland, Ohio
cooperative study; travel; renal hypertension; renal arterial occlusions and stenosis; diagnostic tests; therapy evaluation

HM-00279 FLAGLE, CHARLES D., Johns Hopkins Hosp., Baltimore, Md.
research programs; community service; biomedical engineering; hospitals administration; medical records; documentation systems; computer diagnosis; patient care

MH-01665 MALITZ, SIDNEY, Res. Fdn. Mental Hygiene, Inc., Albany, N.Y.
screening; tranquilizers; simulants..antidepressants; psychiatric patients; hospitals outpatients; attitudes; body fluids; nervous system..central nervous system

MH-01939 LOURIE, REGINALD, American Psychiatric Assn., Washington, D.C.
conferences; children; psychiatry; medical services; travel; community service

MH-03030 HOLLISTER, LEO E., Sch. Med., Stanford Univ., Stanford, Cal.
therapy evaluation; psychotropic drugs; psychotomimetic drugs; psychiatric patients; body fluids; tranquilizers; stimulants

MH-03314 GREENBLATT, MILTON, Mass. M.H. Cr., Boston, Mass.
chemotherapy; cooperative study; depression; electroshock; longitudinal study; personality; psychiatric patients; socioenvironment; stimulants..antidepressants; therapy evaluation

MH-03442 CAPLAN, GERALD, Sch. Pub. Hlth., Harvard Univ., Boston, Mass.
administration; attitudes; community; consultation; family; medical services; mental health; public health nurses; stress; training

MH-03471 LINDEMANN, ERICH, Massachusetts General Hosp., Boston, Mass.
behavior; children; community; cooperative study; education..schools; family; hospitals outpatients; infants (human)..premature infants; longitudinal study; mental health; migrants (sociological); role; socioculture; socioenvironment..urban areas; stress; teaching

MH-03701 GALLANT, DONALD M., Sch. Med., Tulane Univ., New Orleans, La.
psychotropic drugs; schizophrenia; screening; therapy evaluation; neuroses; depression; hospitals outpatients

MH-04135 WHEATLEY, DAVID, Gen. Practitioner Res. Group, Twickenham, England
chemotherapy; neuroses; d-amphetamine; barbiturates; tranquilizers; chlorodiazepoxide

MH-04665 FISH, BARBARA, Sch. Med., New York Univ., New York, N.Y.
children; emotional disturbance; psychotropic drugs; schizophrenia; therapy evaluation; trifluoperazine; butaperazine; diphenhydramine; imipramine; chlorpromazine; chlordiazepoxide; research programs; triiodothyronine; mental retardation; psychological tests; methysergide maleate; trigeridol; electromyography

MH-04669 FRIEDHOFF, ARNOLD J., Sch. Med., New York Univ., New York, N.Y.
psychotropic drugs; therapy evaluation; behavior; emotional reactions; vocalization; performance; psychiatric patients

MH-04731 RICKELS, KARL, Hosp. of Univ. Pennsylvania, Philadelphia, Pa.
neuroses; hospitals outpatients; meprobamate; attitude; cooperative study; chlordiazepoxide

MH-04732 PARK, LEE C., Sch. Med., Johns Hopkins Univ., Baltimore, Md.
attitude; hospitals outpatients; neuroses; meprobamate; chemotherapy; physician--patient relationship; chlorodiazepoxide

MH-04737 ZIMMERMAN, HENRY J., Massachusetts Inst. Tech., Cambridge, Mass.
research programs; communication theory; speech; neurophysiology; sensory mechanisms; semantics.. language; biophysics; education..postgraduate education; computer; statistics; cognition

MH-05089 FREEMAN, HARRY, Medfield Foundation Inc., Medfield, Mass.
aging; psychiatric patients; schizophrenia; screening; tranquilizers

MH-05090 ENGLEHARDT, DAVID M., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
therapy evaluation; psychiatric patients; hospitals outpatients; psychotropic drugs; toxicology

MH-05093 DENBER, HERMAN C.B., Research Fdn. Mental Hygeine, Albany, N.Y.
psychotropic drugs; screening

MH-05096 MERLIS, SIDNEY, Res. Fdn. Mental Hygiene, Albany, N.Y.
behavioral adjustment; psychiatric patients; psychometrics; psychotropic drugs; therapy evaluation

MH-05098 DELAY, JEAN, Sch. Med., Univ. Paris, Paris, France
medical personnel; psychotropic drugs; therapy evaluation

MH-05101 SUGERMAN, A. ARTHUR, New Jersey Bur. Res. Neurology, Psy., Princeton, N.J.
screening; chemotherapy; psychotropic drugs

MH-05106 SCHIELE, BURTRUM C., Sch. Med., Univ. Minnesota, Minneapolis, Minn.
therapy evaluation; psychotropic drugs; behavioral adjustment; psychometrics; psychiatric patients; statistics

MH-05144 HOLLISTER, LEO E., Va. Hosp., Palo Alto, Cal.
cooperative study; screening; psychotropic drugs; psychiatric patients; schizophrenia; depression computer programming

MH-05202 LEHMANN, HEINZ E., Verdun Protestant Hosp., Verdun, Quebec, Canada
psychotropic drugs; psychiatric patients; perception; cognition; behavior; Rorschach; learning..association learning; mucopolysaccharides; screening

MH-05529 KURLAND, ALBERT A., Spring Grove Hosp., Baltimore, Md.
behavior rating scales; social adjustment; psychometrics; psychiatric patients; psychotropic drugs; therapy evaluation; longitudinal study

MH-05615 ROSSI, PETER H., Natl. Opinion Res. Cr., Chicago, Ill.
education..postgraduate education; longitudinal study; decision--making; motivation; research potential; career

MH-05664 BRILL, HENRY, Res. Fdn. Mental Hygiene, Albany, N.Y.
cooperative study; phenothiazine; chemotherapy; schizophrenia; social adjustment

MH-05784 LEAKEY, LOUIS S.B., Coryndon Museum, Nairobi, Kenya, East Africa
geographical sites..Africa; primates..monkeys; taxonomy; ecology, animal; sex behavior; feeding behavior; growth

MH-06261 JASPER, HERBERT H., Sch. Med., McGill Univ., Montreal, Quebec, Canada
United Nations; survey; research potential; brain; psychology; communication

MH-06312 ROSEN, GEORGE, Sch. Pub. Hlth., Columbia Univ., N.Y.C.
publications..history of medicine; medical research

MH-06540 KINNARD, WILLIAM J., Sch. Pharm., Univ. Pittsburgh, Pittsburgh, Pa.
cooperative study; psychotropic drugs; screening; criteria; behavior; conditioning..operant conditioning; primates..monkeys

MH-06551 BOHANNAN, PAUL J., Col. Liberal Arts, Northwestern Univ., Evanston, Ill.
anthropology; family..divorce; social organization; socioculture; questionnaire; publications..literature survey

MH-06842 ARENSBERG, CONRAD, Columbia Univ., New York, N.Y.
music; socioculture; communication; psychometrics; social psychology; emotional reactions; population dynamics, human

MH-06873 STIEFEL, JOHN, Col. Med., Univ. Florida, Gainesville, Fla.
psychiatric patients; hospitals outpatients; psychotherapy; tranquilizers; stimulants..antidepressants; therapy evaluation; chlorpromazine; chlorodiazepoxide; thioridazine; imipramine; phenelzine; dexamyl; desmethylimipramine; amitriptyline

MH-06997 RUSSELL, ROGER W., Col. Arts, Sci., Indiana Univ., Bloomington, Ind.
psychopharmacology; research programs; behavior; drugs; screening; primates..squirrel monkeys; biochemistry

(contd)

INTERDISCIPLINARY (CONTD)

MH-07286 GLUECK, SHELDON, Sch. Law, Harvard Univ., Cambridge, Mass.
computer analysis; computer programming; juvenile delinquency; medical records; socioenvironment..urban areas; socioeconomics..low income groups; longitudinal study; body build; deviant behavior

MH-07287 HIMELHOCH, JEROME, Goddard Col., Plainfield, Vt.
children..adolescence; behavior; socioenvironment..rural areas; socioenvironment..urban areas; juvenile delinquency; interviews; questionnaire; psychological tests; Rorschach; academic achievement

MH-07308 ROE, ANNE R., Grad. Sch. Educ., Harvard Univ., Cambridge, Mass.
career; occupations; special resource centers; manpower

MH-07345 WAELSCH, HEINRICH, International Brain Res. Orgn., New York, N.Y.
conferences..international meetings; conferences..workshop; brain

MH-07418 WITTENBORN, J. RICHARD, American Col. Neuropsychopharmacology, Rutgers State Univ., New Brunswick, N.J.
psychopharmacology; conferences..workshop; communication; neuropharmacology

MH-07759 SALZINGER, KURT, Research Fdn. Mental Hygiene, N.Y.C.
conferences; drugs; verbal behavior; brain damage

MH-08104 KURLAND, ALBERT A., Spring Grove State Hosp., Baltimore, Md.
psychotropic drugs; therapy evaluation; drugs interaction; research programs; psychiatric patients; patient care.. post--hospitalization; phenothiazine; chlorpromazine; stimulants..antidepressants; imipramine; tranquilizers; chlorodiazepoxide; psychometrics; biometry; electroencephalography; computer analysis

MH-08240 SIMPSON, GEORGE M., Rockland State Hosp., Orangeburg, N.Y.
behavior rating scales; drugs resistance; hospital patients; interviews; longitudinal studies; psychotropic drugs; research programs; schizophrenia; therapy evaluation

MH-08399 KINROSS-WRIGHT, V. JOHN, Texas Med. Cr., Houston, Tex.
therapy evaluation; psychotropic drugs; psychiatric patients; psychometrics; toxicology; longitudinal study

MH-08607 MILLER, JAMES G., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
research programs; communication theory; mental processes; behavior; neurophysiology; memory-retention; computer programming; computer analysis; learning; reaction time; sensory deprivation; coding; semantics.. artificial language; mathematical models; problem solving; computer diagnosis; computer simulation; cognition; education..universities; social psychology; decision-making; socioenvironment..urban areas; publications..dictionary; teaching machine

MH-08870 GLUECK, BERNARD C., Institute of Living, Hartford, Conn.
computer analysis; mental hospitals; patient care; psychiatric patients; therapy evaluation; medical records; documentation systems; hospitals administration; communication; medical economics; consultation

MH-08957 RICKELS, KARL, Hosp. Univ. Pennsylvania, Philadelphia, Pa.
therapy evaluation; tranquilizers; psychiatric patients; hospitals outpatients; neuroses; physician--patient relationship; socioeconomics; chlorodiazepoxide; toxicology; diazepines; phenobarbital

MH-08958 RICKELS, KARL, Philadelphia Gen. Hosp., Philadelphia, Pa.
therapy evaluation; tranquilizers; psychiatric patients; hospitals outpatients; neuroses; physician--patient relationship; socioeconomics; chlorodiazepoxide; toxicology; diazepines; phenobarbital

MH-09189 GOULDNER, ALVIN W., Grad. Sch., Sch. Liberal Arts, Washington Univ., St. Louis, Mo.
research programs; social behavior; social organization; attitudes; isolation; socioeconomics..housing; socioeconomics..low income groups; socioenvironment..urban areas; interviews; travel; computer analysis; mental disorders; criminology

MH-09191 ZUBIN, JOSEPH, Res. Fdn. Mental Hygiene, Inc., Middletown, N.Y.
mental disorders; statistics; diagnostic tests; disease classification; criteria; psycholinguistics; geographical sites..United States; geographical sites..England; hospitals personnel; psychiatrists; community; deviant behavior; psychometrics; information exchange; cooperative study; research programs

MH-09201 JACKSON, H. MERRILL, Col. Lit., Sci., Arts, Univ. Michigan, Ann Arbor, Mich.
social change; conflict; socioculture; socioeconomics; social organization; semantics..language; religion; politics; social integration

MH-09204 CUMMING, JOHN H., New York State Dept. Mental Hygiene, Syracuse, N.Y.
social adjustment; prediction; mental disorders; longitudinal study; cooperative study; psychiatric patients; socioenvironment..urban areas; employment.. job satisfaction; role; interviews; survey; medical records; diagnostic tests; psychiatrists; biometry

MH-09209 KELLER, MARK, Rutgers State Univ., New Brunswick, N.J.
semantics; alcoholism; alcoholic beverages

MH-09215 GUTELIUS, MARGARET F., Children's Hosp. of D.C., Washington, D.C.
infant human..newborn; child care; medical facilities planning; hospitals outpatients; medical services; socioeconomics..low income groups; family..child rearing; preventive medicine; child development

MH-09217 GRANT, MURRAY, D.C. Dept. Pub. Hlth., Washington, D.C.
community service; mental health; psychotherapy; day center; psychiatric patients; rehabilitation; geographical sites..District of Columbia; manpower; administrative personnel; mental health personnel; hospitals personnel; training; patient care; vocational guidance; recreation; alcoholism

MH-09218 VAUGHAN, CHARLES W., National Educational Television, New York, N.Y.
education..audio--visual aids; education.. schools; cinematography; television; mental health; sleep; dreams; schizophrenia; children; emotional reactions; preventive medicine; documentation systems; information exchange; public opinion

MH-09219 BARTON, WALTER E., American Psychiatric Assn., Washington, D.C.
psychiatry; documentation systems; mental health personnel; psychiatrists; education; publications; information exchange; communication; semantics.. vocabulary

MH-09220 CROMWELL, RUE L., Vanderbilt Univ. Med. Cr., Nashville, Tenn.
myocardial infarct; monitoring; stress; anxiety; personality; 17--hydroxycorticosteroids; mortality; travel; diagnostic tests; consultation

MH-09221 BARTON, WALTER E., American Psychiatric Assn., Washington, D.C.
mental health; medical insurance; medical services; medical practice; psychiatry; labor unions; employment

MH-09222 BECKER, HOWARD S., Northwestern Univ., Evanston, Ill.
education..schools; training; experience; socioeconomics; social adjustment; personality; role; interviews; adults

MH-09223 LEVY, JEROME, Univ. East Campus, Boulder, Colo.
travel; conferences; geographical sites..United States; mental health; statistics; information exchange; education

MH-09226 KNUPFER, GENEVIEVE, Mental Res. Inst., Berkeley, Cal.
longitudinal study; alcoholism; drinking behavior; personality; socioenvironment; stress; perception; family; attitudes; rehabilitation

MH-10006 JONES, LYLE V., Grad. Sch., Univ. North Carolina, Chapel Hill, N.C.
research programs; psychometrics; psycholinguistics; speech; learning..association learning; semantics.. language; decision--making; concept; memory--retention; judgment; mathematical models; computer programming; computer analysis; statistics

MH-10292 GROSS, MARTIN, Springfield State Hosp., Sykesville, Md.
schizophrenia; chemotherapy; phenothiazines; cooperative study; therapy evaluation; longitudinal study; psychomotor function; intelligence tests; neuropsychological tests; dosage

MH-10295 SMITH, KATHLEEN, Col. Med., Washington Univ., St. Louis, Mo.
depression; chemotherapy; imipramine; therapy evaluation; cooperative study

MH-10330 FRIEDMAN, ALFRED S., Philadelphia Psychiatric Cr., Philadelphia, Pa.
depression; chemotherapy; stimulants..antidepressants; electroshock; psychiatric patients; cooperative study; longitudinal study; therapy evaluation; socioenvironment; personality

MH-10331 EWING, JAMES H., Mercy-Douglass Hosp., Philadelphia, Pa.
depression; chemotherapy; stimulants..antidepressants; psychiatric patients; cooperative study; longitudinal study; therapy evaluation; socioenvironment; personality

MH-10332 KERNOHAN, WILLIAM J., Kentucky State Hosp., Danville, Ky.
schizophrenia; chemotherapy; phenothiazines; cooperative study; therapy evaluation; longitudinal study; psychomotor functions; intelligence tests; neuropsychological tests

MH-10333 WITTENBORN, J. RICHARD, Interdisciplinary Res. Cr., Rutgers State Univ., New Brunswick, N.J.
stimulants..antidepressants; therapy evaluation; depression; psychiatric patients; desipramine; protriptyline; 3--phenoxypropyl guanidine sulfate; longitudinal study; interviews; social worker

MH-10420 ANDRES, FRANCIS D., D.C. Gen. Hosp., Washington, D.C.
depression; chemotherapy; stimulants..antidepressants; electroshock; psychiatric patients; cooperative study; longitudinal study; therapy evaluation; socioenvironment; personality; chlorpromazine; imipramine

MH-10445 WALTERS, GUY M., Rochester State Hosp., Rochester, N.Y.
depression; chemotherapy; cooperative study; imipramine; chlorpromazine; therapy evaluation; behavior rating scales

MH-10495 RYNEARSON, ROBERT R., Rochester State Hosp., Rochester, Minn.
schizophrenia; chemotherapy; phenothiazines; cooperative study; therapy evaluation; longitudinal study

MH-10496 DAVIDSON, EDWIN M., Boston State Hosp., Boston, Mass.
schizophrenia; chemotherapy; chlorpromazine; cooperative study; therapy evaluation; longitudinal study

MH-10527 JONES, MARSHALL R., Sch. Arts, Sci., Univ. Miami, Coral Gables, Fla.
conferences..international meetings; psychology; publications; travel

MH-10546 WIESEL, BENJAMIN, Hartford Hosp., Hartford, Conn.
schizophrenia; chemotherapy; phenothiazines; cooperative study; therapy evaluation; longitudinal study

MH-10809 CONVERSE, PHILIP E., Univ. Michigan, Ann Arbor, Mich.
attitude; values; social psychology; psychological tests; publications..handbook; publications.. literature survey

MH-10812 SANDIFER, MYRON G., Jr., John Umstead Hosp., Butner, N.C.
depression; chemotherapy; stimulants..antidepressants; psychiatric patients; cooperative study; longitudinal study; therapy evaluation; socioenvironment; personality; chlorpromazine; imipramine

MH-10820 DONNELLY, JOHN, Inst. of Living, Hartford, Conn.
schizophrenia; phenothiazines; trifluoperazine; therapy evaluation; drugs interaction; toxicology; parnate; dosage; behavior rating scales; psychological tests

MH-10834 HARARY, FRANK, Univ. Michigan, Ann Arbor, Mich.
mathematical models; social psychology

MH-10889 GIBSON, ROBERT W., The Sheppard and Enoch Pratt Hosp., Towson, Md.
depression; chemotherapy; stimulants..antidepressants; electroshock; psychiatric patients; cooperative study; longitudinal study; therapy evaluation; socioenvironment; personality; chlorpromazine; imipramine

MH-10890 SANDIFER, MYRON G., Jr., John Umstead Hosp., Butner, N.C.
depression; chemotherapy; stimulants..antidepressants; psychiatric patients; cooperative study; longitudinal study; therapy evaluation; socioenvironment; personality; chlorpromazine; imipramine

MH-10892 DI MASCIO, ALBERTO, Boston State Hosp., Boston, Mass.
depression; chemotherapy; stimulants..antidepressants; electroshock; psychiatric patients; cooperative study; longitudinal study; therapy evaluation; socioenvironment; personality; chlorpromazine; imipramine

MH-10989 DENBER, HERMAN C.B., Manhattan State Hosp., Ward's Island, New York, N.Y.
schizophrenia; chemotherapy; phenothiazines; dosage; therapy evaluation; hospitals release; behavior rating scales; social adjustment; mental hospitals; hospital--community relations

MH-10990 IRWIN, SAMUEL, Sch. Med., Univ. Oregon, Portland, Ore.
research programs; psychopharmacology; therapy evaluation; centrally acting drugs; chemotherapy; depression; publications..handbook; conditioning.. avoidance; learning; computer analysis; toxicology; dosage

MH-10999 HIMWICH, HAROLD E., Galesburg State Res. Hosp., Galesburg, Ill.
conferences..international meetings; schizophrenia; biochemistry; travel

MH-11001 KUPLAND, ALBERT A., Spring Grove State Hosp., Baltimore, Md.
LSD; mental disorders; psychotherapy; therapy evaluation; dosage; behavior rating scales; longitudinal study; psychological tests; behavioral adjustment; mental hospitals; toxicology

MH-11045 SANDIFER, MYRON G., Jr., Dorothea Dix Hosp., Raleigh, N.C.
schizophrenia; chemotherapy; chlorpromazine; cooperative study; therapy evaluation; longitudinal study; psychomotor functions; intelligence tests; neuropsychological tests

MH-11046 SANDIFER, MYRON G., Jr., Dorothea Dix Hosp., Raleigh, N.C.
schizophrenia; chemotherapy; chlorpromazine; cooperative study; therapy evaluation; longitudinal study; psychomotor functions; intelligence tests; neuropsychological tests

MH-11047 SANDIFER, MYRON G., Jr., Dorothea Dix Hosp., Raleigh, N.C.
schizophrenia; chemotherapy; chlorpromazine; cooperative study; therapy evaluation; longitudinal study; psychomotor functions; intelligence tests; neuropsychological tests

MH-11049 MENDELSON, JACK H., Massachusetts Gen. Hosp., Boston, Mass.
conferences..international meetings; alcoholism; behavior; travel; publications..monograph

MH-11272 DITMAN, KEITH S., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
alcoholism; therapy; LSD; group therapy; psychotherapy; hallucinogens; psychological tests; experience; hallucinations; computer analysis; interviews

MH-11275 LUDWIG, ARNOLD M., Mendota State Hosp., Madison, Wis.
alcoholism; LSD; hypnosis; disulfiram; psychotherapy; therapy evaluation; longitudinal study

MH-11358 CALDWELL, JOHN M., Jackson Mem. Hosp., Miami, Fla.
schizophrenia; chemotherapy; phenothiazines; cooperative study; therapy evaluation; longitudinal study; psychomotor function; intelligence; neuropsychological tests; dosage

MH-11379 GERSHON, SAMUEL, Univ. Missouri, St. Louis, Mo.
psychotropic drugs; parasympatholytic drugs; hallucinogens; ditran; therapy evaluation; schizophrenia; behavior rating scales; psychological tests; toxicology; drugs interaction; psychotomimetic drugs

MH-11380 FINK, MAX, Sch. Med., Univ. Missouri, St. Louis, Mo.
psychotropic drugs; therapy evaluation; psychiatric patients; disease classification; drugs classification; electroencephalography; computer analysis; psychometrics; cooperative study

MH-11384 KNOWLES, R.R., St. Louis State Hosp., St. Louis, Mo.
schizophrenia; chemotherapy; phenothiazines; cooperative study; therapy evaluation; longitudinal study; psychomotor functions; intelligence tests; neuropsychological tests

MH-11468 BASS, ALLAN D., Sch. Med., Vanderbilt Univ., Nashville, Tenn.
research programs; psychopharmacology; psychotropic drugs; chemical structure--biological activity; bioassay; blood--brain barrier; serotonin; catecholamines; acetylcholine; oxidoreductases.. monoamine oxidase; transferases..O--methyl transferase; esterases; nerves..neurons; norepinephrine; 17--hydroxycorticosteroids; schizophrenia; diurnal variation; metabolites

MH-11558 HAAS, J. EUGENE, Col. Commerce, Admin., Ohio State Univ., Columbus, Ohio
disaster behavior; interviews; public opinion; community; ethnic groups..Eskimos; ethnic groups.. Americans; geographical sites..United States; travel

NB-02368 DeJONG, RUSSELL N., Sch. Med., Univ. Michigan, Ann Arbor, Mich.
cooperative study; meningeal hemorrhages; meninges.. subarachnoid space; cerebral aneurysms; angiography; antihypertensive agents; hypothermia; neurosurgery; therapy evaluation; cerebrospinal fluid; hemoglobin; bile pigments; blood cells; television

NB-02369 ODOM, GUY L., Sch. Med., Duke Univ., Durham, N.C.
meninges..subarachnoid space; meningeal hemorrhages; cerebral aneurysms; cooperative study; hemangioma; cerebral hemorrhage; cerebrovascular disorders

NB-02371 COOKE, ROBERT E., Johns Hopkins Univ., Baltimore, Md.
cerebral palsy; child development; cooperative study; longitudinal study; neuropsychological tests; pregnancy.. perinatal

NB-02373 KING, GERALDINE A., Sch. Med., Univ. Pennsylvania, Philadelphia, Pa.
cerebral aneurysms; meningeal hemorrhages; meninges.. subarachnoid space; cooperative study; congenital abnormalities; cerebrovascular system; longitudinal study; television

NB-02374 YAHR, MELVIN D., Col. Phys., Surg., Columbia Univ., New York, N.Y.
meningeal hemorrhages; meninges..subarachnoid space; cerebral aneurysms; therapy evaluation; congenital abnormalities

NB-02379 SAHS, A.L., Col. Med., State Univ. Iowa, Iowa City, Iowa
cooperative study; cerebral aneurysms; information exchange; conferences

NB-02380 MURPHEY, FRANCIS, Col. Med., Univ. Tennessee, Memphis, Tenn.
cooperative study; longitudinal study; cerebral aneurysms; hypothermia; heart arrest; neurosurgery; blood vessels prosthesis; blood coagulation..anticoagulants; meningeal hemorrhages; meninges.. subarachnoid space

NB-02383 PADDISON, RICHARD M., Charity Hosp. Louisiana, New Orleans, La.
cooperative study; longitudinal study; mental retardation; cerebral palsy; nervous system disorders; children; criteria; pregnancy..perinatal

NB-02384 McDOWELL, FLETCHER H., Bellevue Hosp., New York, N.Y.
cooperative study; cerebral aneurysms; meningeal hemorrhages; therapy; meninges..subarachnoid space

NB-02387 GURDJIAN, ELISHA S., Wayne State Univ., Detroit, Mich.
cooperative study; cerebral aneurysms; meningeal hemorrhage; patient care; hypothermia; blood vessels shunts; meninges, subarachnoid space

NB-02388 ROSEMAN, EPHRAIM, Sch. Med., Univ. Louisville, Louisville, Ky.
cooperative study; cerebral aneurysms; therapy; meningeal hemorrhages; meninges..subarachnoid space; television

NB-02389 FIELDS, WILLIAM S., Col. Med., Baylor Univ., Houston, Tex.
cerebral aneurysms; congenital abnormalities; vascular disorders; longitudinal study; meningeal hemorrhages; meninges..subarachnoid space

NB-02399 SLOSBERG, PAUL S., Mt. Sinai Hosp., New York, N.Y.
cooperative study; meningeal hemorrhages; meninges.. subarachnoid space; cerebral aneurysms; therapy; antihypertensive agents

(contd)

INTERDISCIPLINARY (CONTD)

NB-02413 **BOLDREY, EDWIN B., Sch. Med., Univ. California, San Francisco, Cal.**
meninges..subarachnoid space; meningeal hemorrhages; cerebral aneurysms; cooperative study; hemangioma; cerebrovascular disorders

NB-02795 **LONG, CHARLES, Highland View Hosp., Cleveland, Ohio**
hand; electromyography; instrumentation; electrogoniometer; arthritis..rheumatoid arthritis; hemiplegia; dentistry..mastication; computer analysis; limbs movement

NB-02861 **TROUTMAN, RICHARD C., Res. Fdn. State Univ. New York, Albany, N.Y.**
eye surgery; plastics; implants; eye prosthesis; eye.. lens; aniseikonia

NB-03336 **PFAFFENBERGER, CLARENCE J., Guide Dogs for Blind, San Rafael, Cal.**
dogs, guide dogs; training; genetics; age; aging; blindness; hip dysplasia; behavior; environment

NB-03354 **VAN ALLEN, MAURICE W., State Univ. Iowa, Iowa City, Iowa**
research programs; nervous system disorders; eye disorders; eye..retina; muscle..extraocular muscles; metabolic diseases; magnesium; tryptophan; reading; aphasia

NB-03389 **SCHEPENS, CHARLES L., Retina Fdn., Boston, Mass.**
eye disorders; retinal detachment; eye..vitreous body; congenital abnormalities; uveitis; glaucoma; radiation effects; ophthalmology; connective tissue diseases; research programs

NB-03492 **DIAMOND, LOUIS K., Children's Hosp. Med. Cr., Boston, Mass.**
cooperative study; blood groups; genetics..population genetics, human; genetics..genes; pregnancy..abortion; immunology..antigens

NB-03627 **McCANN, GILBERT D., California Inst. Tech., Pasadena, Cal.**
computer; perception; sensory mechanisms; nervous system; brain; thinking; research programs

NB-03636 **ARMALY, MANSOUR F., Sch. Med., State Univ. Iowa, Iowa City, Iowa**
cooperative study; epizootiology; eye..aqueous humor; eye..intraocular fluid dynamics; eye..trabecular meshwork; glaucoma; primates..monkeys; species

NB-03637 **BARANY, ERNST H., Sch. Med., Uppsala Univ., Uppsala, Sweden**
primates..monkeys; species; eye..intraocular pressure; glaucoma; drugs; eye..aqueous outflow; epizootiology; diagnostic tests; eye..aqueous humor

NB-03638 **GOLDMANN, HANS, Univ. Bern, Bern, Switzerland**
vision tests; visual field; visual perception; eye..intraocular blood volume; eye..retina; retinal detachment; amblyopia; diagnostic tests; eye disorders

NB-03639 **BECKER, BERNARD, Sch. Med., Washington Univ., St. Louis, Mo.**
cooperative study; ophthalmology; travel; glaucoma; vision; eye retina

NB-03640 **MIDDLETON, SAMUEL, Univ. Chile, Santiago, Chile**
brain lesions; brain..cerebral cortex; conditioning; brain; electrophysiology; brain..cerebellum; brain..thalamus; hearing; visual perception

NB-03641 **WOOLSEY, CLINTON N., Sch. Med., Univ. Wisconsin, Madison, Wis.**
nervous system; sensory mechanisms; geographical sites.. Chile; travel; cooperative study; phylogeny; neurophysiology

NB-03642 **KATSUKI, SHIBANOSUKE, Kyushu Univ., Fukuoka, Japan**
cerebrovascular disorders; epidemiology; geographical sites..Japan; atherosclerosis; brain..cerebral cortex; blood flow; blood coagulation; lipids; aphasia; psychometrics; cooperative study; longitudinal study

NB-03643 **BAKER, A. B., Sch. Med., Univ. Minnesota, Minneapolis, Minn.**
cooperative study; cerebrovascular disorders; epidemiology; atherosclerosis; autopsy; blood coagulation

NB-03645 **FORSTER, FRANCIS M., Sch. Med., Univ. Wisconsin, Madison, Wis.**
cooperative study; brain..subfornical body; epilepsy; conditioning; electroencephalography; behavior; brain.. thalamus; brain..reticular formation; stereotaxia; autonomic reflexes; electrocorticography

NB-03647 **SINGER, MARCUS, Sch. Med., Western Reserve Univ., Cleveland, Ohio**
cooperative study; nervous system; regeneration; training; travel

NB-03648 **KAPUR, YASH P., Christian Med. Col. and Hosp., Vellore, South India**
bone..temporal bone; brain; cooperative study; geographical sites..India; hearing; hearing tests; infectious diseases; malnutrition; parasitic diseases

NB-03649 **BORDLEY, JOHN E., Sch. Med., Johns Hopkins Univ., Baltimore, Md.**
bone..temporal bone; brain; cooperative study; deafness; dietary deficiency; geographical sites..India; hearing tests; infectious diseases

NB-03752 **BARLOW, JOHN S., Massachusetts Gen. Hosp., Boston, Mass.**
electroencephalography; communication theory; computer; statistics; photostimulus; brain disorders; ear.. vestibular apparatus

NB-03804 **FINLEY, KNOX H., Presbyterian Med. Cr., San Francisco, Cal.**
Western encephalitis; viruses..St. Louis encephalitis; children; infant human; longitudinal study; epilepsy; brain disorders; neuromuscular disorders; mental disorders; neuropsychological tests

NB-03812 **KATZMAN, ROBERT, Albert Einstein Col. Med., Yeshiva Univ., New York, N.Y.**
lipids; nervous system; surface properties; molecular structure; chromatography; infrared spectrometry; gangliosides; molecular films..monomolecular films

NB-03813 **POTTER, DAVID D., Sch. Med., Harvard Univ., Boston, Mass.**
crustaceans; gamma-aminobutyric acid; glutamates; nerve impulse transmission; nerves..axons; nerves..synapse; neurohormones

NB-03815 **BUTLER, ROBERT A., Univ. Chicago, Chicago, Illinois**
ear..cochlear microphonics; potentials

NB-04038 **DIAMOND, LOUIS K., Blood Grouping Lab., Boston, Mass.**
blood groups; genetics..chromosomes; nervous system disorders; mental retardation; cooperative study; travel

NB-04055 **McGILL, HENRY C., Jr., Sch. Med., Louisiana State Univ., New Orleans, La.**
atherosclerosis; cerebrovascular disorders; epidemiology; cooperative study; autopsy; geographical sites..Italy; geographical sites..Norway

NB-04320 **BOOK, JAN A., Inst. Med. Genetics, Uppsala, Sweden**
genetics..chromosomes; blood groups; nervous system disorders; congenital abnormalities; genetic mapping; cooperative study; travel

NB-04321 **VAN LOGHEM, J. J., Central Lab. Netherlands Red Cross Blood Trans. Svc., Landsteiner Fdn., Amsterdam, Netherlands**
cooperative study; genetics..chromosomes; blood groups; congenital abnormalities; nervous system disorders

NB-04322 **TURPIN, RAYMOND, Inst. Progenese, Paris, France**
blood groups; congenital abnormalities; cooperative study; genetic mapping; genetics..chromosomes; genetics.. chromosome translocations; genetics..trisomy

NB-04340 **YIM, GEORGE K.W., Sch. Pharm., Purdue Univ., Lafayette, Ind.**
tremorine; tremor; acetylcholine; choline esterase; spinal reflex; spinal cord transection; nerves..motor neurons; potentials..spike potential

NB-04341 **SHARPLESS, SETH K., Albert Einstein Col. Med., Bronx, N.Y.**
brain..corpus callosum; nerves..denervation; electrophysiology; barbiturates; anesthetics; hypersensitivity

NB-04343 **RANSOHOFF, JOSEPH, Sch. Med., New York Univ., N.Y.C.**
cooperative study; cerebral aneurysms; meninges.. subarachnoid space; meningeal hemorrhages; therapy evaluation; hypothermia

NB-04344 **GRAF, CARL J., Buffalo Gen. Hosp., Buffalo, N.Y.**
cerebral aneurysms; meningeal hemorrhages; meninges.. subarachnoid space; cooperative study; therapy evaluation

NB-04345 **ALLEN, MARSHALL B., Jr., Med. Col. Georgia, Augusta, Ga.**
cerebral aneurysms; meningeal hemorrhages; meninges.. subarachnoid space; cooperative study; therapy evaluation; antihypertensive agents; hypothermia

NB-04347 **ROSS, ALEXANDER T., Indiana Univ. Med. Cr., Indianapolis, Indiana**
cerebral aneurysms; meningeal hemorrhages; meninges.. subarachnoid space; cooperative study; therapy evaluation

NB-04348 **SWEET, WILLIAM H., Massachusetts Gen. Hosp., Boston, Mass.**
antihypertensive agents; arteries..carotid arteries; blood coagulation..anticoagulants; blood flow; blood pressure; brain ischemia and hypoxia; cerebral aneurysms; cerebroarterial occlusions extracranial; cerebroarterial occlusions and thrombosis; cooperative study; diagnostic tests; hypothermia; meningeal hemorrhages; meninges..subarachnoid space; plastics; radiation counters; radiolabeled; therapy evaluation; vasoactive agents..vasodilators

NB-04351 **McKISSOCK, WYLIE O., Atkinson Morley's Hosp., Wimbledon, England**
cerebral aneurysms; meningeal hemorrhages; meninges.. subarachnoid space; cooperative study; therapy evaluation

NB-04366 **CEPPELLINI, RUGGERO, Univ. Torino, Torino, Italy**
cooperative study; genetics..chromosomes; blood groups; congenital abnormalities; nervous system disorders; genetic mapping

NB-04373 **SAHS, ADOLPH L., Sch. Med., State Univ. Iowa, Iowa City, Iowa**
cerebral aneurysms; meningeal hemorrhages; meninges.. subarachnoid space; cooperative study; therapy evaluation

NB-04374 **LAWLER, SYLVIA D., Royal Cancer Hosp., London, England**
blood groups; genetics..chromosomes; immunology.. antigens; blood cells..erythrocytes; hemoglobin; leukemia; neoplasms; cooperative study

NB-04708 **DAVIDOFF, LEO M., Col. Med., Yeshiva Univ., N.Y.C.**
cooperative study; cerebral aneurysms; meningeal hemorrhages; meninges..subarachnoid space; therapy evaluation; cerebroarterial occlusions extracranial; arteries..carotid arteries; antihypertensive agents

NB-04736 **POULTER, THOMAS C., Stanford Research Inst., Menlo Park, Cal.**
vocalization; ultrasonics; sonar; computer analysis; magnetic recording system; depth perception; aquatic

NB-04738 KELLOGG, WINTHROP N., Sch. Physical Sci., Stanford Res. Inst., Menlo Park, Cal.
blindness; depth perception; mechanical vibrations; psychophysics; sensory mechanisms; sonar

NB-04937 COOK, ALBERT W., Downstate Med. Cr., State Univ. New York, Brooklyn, N.Y.
arteries..carotid arteries; blood flow; cerebral aneurysms; cerebroarterial occlusions extracranial; computer analysis; cooperative study; meningeal hemorrhages; meninges..subarachnoid space; therapy evaluation

NB-04971 O'LEARY, JAMES, Sch. Med., Washington Univ., Saint Louis, Mo.
cerebrovascular disorders; epidemiology; pathology; publications..book; therapy evaluation

NB-05149 FOX, CLEMENT A., Sch. Med., Marquette Univ., Milwaukee, Wis.
education..university students; motivation; career; neuroanatomy; scientists

NB-05166 TYLER, FRANK H., Col. Med., Univ. Utah, Salt Lake City, Utah
cooperative study; muscular dystrophy; therapy evaluation; disease classification; criteria; exercise; tensile strength; nucleotides; nucleosides; diaitoxin; steroids; enzymes; fatigue; epidemiology

NB-05181 COLEMAN, D. JACKSON, Col. Phys., Surg., Columbia Univ., New York, N.Y.
ultrasonics; diagnostic tests; eye disorders; eye..anterior chamber; eye accomodation

NB-05203 COHEN, MAYNARD M., Presbyterian-St. Luke's Hosp., Chicago, Ill.
amino acid; aspartic acid; brain; carbohydrates; travel; glutamates; aspartic acid

NB-05268 BROOKS, CHANDLER McC., State University New York Downstate Med. Cr., Brooklyn, N.Y.
cerebrospinal fluid; pulmonary ventilation; brain.. respiratory center; conferences; travel

NB-05398 RIVIERE, MAYA, Rehabilitation Codes, Inc., New York, N.Y.
classification; eye disorders; statistics; handicapped children

NB-05516 BETTMAN, JEROME W., Presbyterian Med. Cr., San Francisco, Cal.
conferences; eye circulatory disorders; geographical sites..California; physiology; travel

NB-05616 RIVIERE, MAYA, Rehabilitation Codes, Inc., New York, N.Y.
conferences; disease classification; communicative disorders

NB-05617 RILEY, LEO H., Catholic Guild for All Blind, Newton, Mass.
conferences; blindness

NB-05651 MURPHEY, FRANCIS, Sch. Med., Univ. Tennessee, Memphis, Tenn.
hypothermia; perfusion; brain; cerebrovascular disorders; meningeal hemorrhages; meninges..subarachnoid space; blood vessels restoration; blood coagulation.. fibrinolysis; surgery, postoperative; hemorrhage; epsilon-aminocaproic acid; laboratory facilities

NB-05826 ROSE, AUGUSTUS S., UCLA Cr. Hlth. Sci., Los Angeles, Cal.
cooperative study; ACTH; therapy evaluation; multiple sclerosis

NB-05832 SCHUMACHER, GEORGE A., Mary Fletcher Hosp., Burlington, Vt.
cooperative study; ACTH; therapy evaluation; multiple sclerosis

NB-05833 McDOWELL, FLETCHER, Bellevue Hosp., New York, N.Y.
cooperative study; ACTH; therapy evaluation; multiple sclerosis

NB-05834 KURTZKE, JOHN F., Veterans Admin. Hosp., Washington, D.C.
cooperative study; ACTH; therapy evaluation; multiple sclerosis

NB-05836 MACKAY, ROLAND P., Sch. Med., Northwestern Univ., Chicago, Ill.
cooperative study; ACTH; therapy evaluation; multiple sclerosis

NB-05837 SCHLINBERG, LABE C., Albert Einstein Col. Med., New York, N.Y.
cooperative study; ACTH; therapy evaluation; multiple sclerosis

NB-05839 MILLIKAN, CLARK H., Mayo Clinic, Rochester, Minn.
cerebrovascular disorders; consultation; travel

NB-05840 SIBLEY, WILLIAM A., University Hosp., Cleveland, Ohio
cooperative study; ACTH; therapy evaluation; multiple sclerosis

NB-05844 TOURTELLOTTE, WALLACE W., Univ. Michigan Med. Cr., Ann Arbor, Mich.
cooperative study; ACTH; therapy evaluation; multiple sclerosis

NB-05845 ROSE, AUGUSTUS S., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
cooperative study; ACTH; therapy evaluation; multiple sclerosis

NB-05851 DIXON, WILFRED J., Univ. California Cr. Hlth. Sci., Los Angeles, Cal.
cooperative study; ACTH; therapy evaluation; multiple sclerosis

NB-05924 McCANN, GILBERT D., California Inst. Tech., Pasadena, Cal.
conferences; computer analysis; vision; nervous system; travel; geographical sites..United States

NB-06008 MILLIKAN, CLARK H., Mayo Fdn., Rochester, Minn.
conferences; speech disorders; travel; neurology

NB-06065 SOOY, FRANCIS A., Univ. California Med. Cr., San Francisco, Cal.
conferences..international meetings; otolaryngology; travel; geographical sites..Japan

NB-06066 McLAURIN, ROBERT L., Cincinnati Gen. Hosp., Cincinnati, Ohio
conferences; injuries..head injuries; neurosurgery; travel

NB-06116 BUCY, PAUL C., Chicago Wesley Mem. Hosp., Chicago, Ill.
conferences..international meetings; travel; neurology; geographical sites..Austria; geographical sites.. Denmark; geographical sites..Switzerland

NB-06117 SMELSER, GEORGE K., Col. Phys., Surg., Columbia Univ., New York, N.Y.
travel; geographical sites..Germany; conferences.. international meetings; ophthalmology

NB-06240 SANCHEZ LONGO, LUIS P., Sch. Med., Univ. Puerto Rico, San Juan, P.R.
conferences..international meetings; neurology; geographical sites..Venezuela

NB-06243 BECKER, BERNARD, Sch. Med., Washington Univ., St. Louis, Missouri
vision; eye disorders; research potential; training

NB-06244 SOOY, FRANCIS A., Med. Cr., Univ. California, San Francisco, Cal.
communication; communicative disorders; research potential; training

NB-06246 OLDENDORF, WILLIAM H., Veterans Admin. Cr., Los Angeles, Cal.
travel; geographical sites..Latin America; cerebrovascular disorders; epidemiology

NB-06265 MERRITT, H. HOUSTON, Col. Phys., Surg., Columbia Univ., New York, N.Y.
cooperative study; epilepsy

NB-06323 EVANS, JOSEPH P., Univ. Chicago, Chicago, Ill.
conferences; injuries..head injuries; neurology; geographical sites..United States; travel

NU-00023 HENDERSON, VIRGINIA A., Sch. Nursing, Yale Univ., New Haven, Conn.
medical research; publications..literature survey; documentation systems; nurses

OH-00192 SELIKOFF, IRVING J., Mount Sinai Hosp., New York, N.Y.
conferences..international meetings; asbestos; carcinogenesis; occupational hazards; public health; industrial medicine; silicosis; sarcoma

OM-01437 KROEPSCH, ROBERT H., Western Interstate Comm. Educ., Boulder, Colo.
education..medical education; mental health personnel; hospitals personnel; information exchange

RH-00412 SAX, N. IRVING, New York State Dept. Hlth., Albany, N.Y.
radiation hazards; industrial wastes; air pollution; air flow; agriculture; ecology..plants; ecology.. animal; radioisotopes..plutonium 239; radioisotopes.. uranium; radioisotopes..krypton 85; radioisotopes.. iodine 131; tritium

TW-00030 MALMENDIER, CLAUDE L., Sch. Med., Univ. Brussels, Brussels, Belgium
lipids; radiolabeled carbon; hyperlipemia; nephrotic syndrome; oxygen consumption; carbon dioxide transport; muscle

TW-00040 JENSEN, KLAUS, Blegdamshospitalet, Copenhagen, Denmark
bacteria..Staphylococcus; immunology..antigens; chemical structure--biological activity; immunology..antigen--antibody reactions; toxicology; antineoplastic agents; staphylotoxins

TW-00045 JOYCE, CHARLES R.B., London Hosp. Med. Col., London, England
drugs; response; prediction; conditioning..operant conditioning; learning

TW-00048 SANTADUSIT, AROON, Univ. Med. Sci., Chienmai, Thailand
genetics..chromosomes; cell; ethnic groups; blood disorders; mental disorders; hermaphroditism; geographical sites..Thailand

TW-00050 ROZIJN, THOMAS H., State Univ. Utrecht, Utrecht, The Netherlands
fungi..yeasts; cell components..cell nucleus; chemical structure--biological activity

TW-00051 KOSUNEN, TIMO U., Univ. Helsinki, Helsinki, Finland
hypersensitivity..delayed hypersensitivity; blood cells; lymphocytes; blood vessels; immunology..antigens; proteins

TW-00052 PENNA, MARIO, Sch. Med., Univ. de Chile, Santiago, Chile
hypoxia; yeast; function; stimulus; ganglionic blocking agents (nonspecific); sympatholytic agents; reserpine; adrenalectomy

TW-00053 AHREN, KURT E.B., Univ. Goteborg, Goteborg SV, Sweden
amino acid; glucose; cell components..cell membrane; ovary; gonadotropins; pituitary hormones; membrane permeability and transport

(contd)

LISTING OF GENERAL RESEARCH AREAS

INTERDISCIPLINARY (CONTD)

TW-00054 MIDULLA, MARIO, Univ. de Roma, Rome, Italy
viruses..enteroviruses; virus diseases; infant human; children; laboratory facilities

TW-00056 RAMIREZ, GRACIELA, Inst. Nacional de Enfermedades Neoplasicas, Lima, Peru
laboratory facilities; photography; neoplasms; viruses.. oncogenic viruses; leukemia; tissue

TW-00062 DIKSTEIN, SHABTAY, Hadassah Med. Sch., Hebrew Univ., Jerusalem, Israel
adrenergic receptors; catecholamines; catecholamines inhibitors; dibenamine hydrochloride; tritium; epinephrine; fractionation; drugs receptors; phospholipids

TW-00070 ARCHER, GORDON T., Red Cross Blood Transfusion Service, Sydney, N.S.W., Australia
blood cells..eosinophil leukocytes; phagocytosis; bacteria; immunology..zymosan; chemical structure--biological activity; enzymes; hypersensitivity

TW-00085 OVERGAARD-HANSEN, KAY, Univ. Copenhagen, Copenhagen, Denmark
cordycepin; Ehrlich ascites carcinoma; phosphorylation; glycolysis; tissue respiration; adenosine triphosphate; cell components..mitochondria

TW-00091 URSIN, HOLGER, Faculty Med., Univ. Oslo, Oslo, Norway
emotional reactions; motivation; conditioning..avoidance; brain lesions; brain mapping; visual perception; electrostimulus; implants; brain..amygdala; brain..limbic system; brain..thalamus; brain..orbital gyri; brain..subcortical structures

TW-00092 FORSTER, OTHMAR, Fac. Med., Univ. Wien, Wien, Austria
immunology..antigen--antibody reactions; immunology.. antigens; proteins; radiolabeled iodine; glomerulonephritis; immunity..autoimmunity; serum sickness

TW-00097 GORMSEN, JOHANNES, Sch. Med., Univ. Copenhagen, Copenhagen, Denmark
blood coagulation..fibrin; blood coagulation..fibrinolysis; blood coagulation..fibrinase; calcium; chemical structure--biological activity; proteases; radiolabeled iodine; blood coagulation..fibrinogen

TW-00101 GANGAHDHARAM, PATTISAPU R., Tuberculosis Chemotherapy Centre, Chetput, Madras, India
bacteria..Mycobacterium tuberculosis; host--parasite; chemotherapy; cell components..cell wall; membrane permeability; chemical structure--biological activity; hydrogen peroxides; laboratory facilities; p--amino-salicylic acid; streptomycin; thionamide; drugs resitance

TW-00102 MENDELSOHN, DENNIS, Sch. Med., Witwatersrand Univ., Johannesburg, South Africa
cholesterol; bile acids and salts; liver; enzymes; synthesis; diet; hormones; radiolabeled carbon

WP-00176 BARLOW, JOHN P., Cornell Univ., Ithaca, N.Y.
biochemical oxygen demand; water pollution; diurnal variation; coastal waters; algae; nutrition

WP-00457 GUMBEL, EMIL J., Sch. Eng., Applied Sci., Columbia Univ., N.Y.C.
water pollution; water supply; water flow; statistics; mathematical models; sanitary engineering; prediction; climate

WP-00633 BANSE, KARL, Grad. Sch., Univ. Washington, Seattle, Wash.
marine biology; plankton..phytoplankton; population dynamics (microorganisms); food; seasonal variation; water pollution; coastal waters; ecology (plants); chlorophyll; solar radiation

WP-00685 CORRELL, DONOVAN, Texas Res. Fdn., Renner, Tex.
aquatic plants; geographical sites..United States, Southwestern; ecology, plants; phytogeny; taxonomy; inland fresh waters; water pollution; publications

WP-00762 TIBBY, RICHARD B., Allan Hancock Fdn., Univ. Southern California, Los Angeles, Cal.
instrumentation--methodology; ultraviolet rays; diffusion; bioassay; sewage; industrial wastes; geographical sites..California; coastal waters

WP-00780 HANAN, JOE J., Col. Agr., Colorado State Univ., Fort Collins, Colo.
water conservation; irrigation (agriculture); solar radiation; water supply; growth; plants; soil

WP-00794 NOBLE, VINCENT E., Inst. Sci., Tech., Univ. Michigan, Ann Arbor, Mich.
inland fresh waters; geographical sites.. Great Lakes region; water flow; computer analysis; instrumentation--methodology; seasonal variation

WP-00803 ENGLISH, THOMAS S., Grad. Sch., Univ. Washington, Seattle, Wash.
marine biology; seasonal variation; fish; population dynamics, animal; genetic strains; statistics; computer analysis; aging; growth; reproduction; geographical sites..Washington

WP-00828 OLSON, THEODORE A., Sch. Pub. Hlth., Univ. Minnesota, Minneapolis, Minn.
water quality; inland fresh waters; growth factors; population dynamics..plants; population dynamics.. animal; plankton..phytoplankton; water pollution

WP-00860 FAUST, SAMUEL D., Rutgers Univ., New Brunswick, N.J.
conferences; water; water treatment; oxidation; hydrolysis; surface properties; adsorption; electrolytes; sanitary engineering

WP-00898 GUNNING, GERALD E., Ecological Soc. of America, New Orleans, La.
conferences..international meetings; geographical sites..Poland; travel; inland fresh waters; biological scientists

WP-00899 STUMM, WERNER, Grad. Sch. Arts, Sci., Harvard Univ., Cambridge, Mass.
conferences; water supply; solutions..aqueous solutions; sanitary engineering

WP-00900 HOOD, DONALD W., Col. Arts, Sci., Texas AM Univ., College Station, Tex.
conferences; travel; publications; sea water; water pollution; marine biology; ecology, plants; ecology, animal

WP-00902 GREENFIELD, LEONARD J., Univ. Miami, Miami, Fla.
marine biology; water pollution; bacteria; death; sedimentation; calcification; carbonates; ammonia; seasonal variation

WP-00903 PARKER, RICHARD A., Grad. Sch., Washington State Univ., Pullman, Wash.
phosphates; algae; food; radiolabeled phosphorus

THE FOLLOWING LIST OF CONTRACTS WAS NOT INCLUDED IN THE FOREGOING BROAD RESEARCH AREAS SINCE CONTRACTS DO NOT UNDERGO THE SAME CLASSIFICATORY ASSIGNMENTS AS RESEARCH GRANTS

Contr. AI-62-127 Baylor Univ., Houston, Texas
viruses..enterovirus; immune sera; viral typing reagents

Contr. AI-62-200 Microbiological, Bethesda, Md.
respiratory diseases; viruses..respiratory viruses; hypersensitivity; diagnostic tests

Contr. AI-62-473 Research Fdn. Childrens Hosp., Washington, D.C.
vaccines; immunology..antigens; respiratory diseases

Contr. AI-62-477 Colorado Univ. Med. Ctr., Denver, Colo.
vaccines..respiratory syncytial virus vaccines; respiratory diseases; viruses..respiratory viruses

Contr. AI-62-839 Baltimore Biological Lab., Baltimore, Md.
bacteria..mycoplasma

Contr. AI-62-841 Parke Davis and Co., Detroit, Mich.
viruses..influenza virus; immunology..antigen--antibody reactions

Contr. AI-63-75 Tulane Univ. of Louisiana, New Orleans, La.
vaccines..viral vaccines; respiratory diseases; therapy evaluation; aging

Contr. AI-63-76 Hektoen Inst., Chicago, Ill.
respiratory diseases; research programs; immunity

Contr. AI-63-80 Wyeth Labs., Philadelphia, Pa.
viruses..adenoviruses; vaccines standardization

Contr. AI-63-81 Microbiological Assoc., Inc., Bethesda, Md.
viruses; microbial culture; virus replication

Contr. AI-63-103 Flow Labs., Rockville, Md.
tissue culture; serology; laboratory facilities

Contr. AI-63-536 Ben Venue Labs., Bedford, Ohio
immune sera; bioassay

Contr. AI-63-587 Drug Detection and Dev. Organization, Bethesda, Md.
genetics..genotypes; immunology..antigens; laboratory animals

Contr. AI-63-1127 Univ. Wisconsin, Madison, Wis.
vaccines..viral vaccines; virus diseases; therapy evaluation; family

Contr. AI-63-1128 Univ. Virginia, Charlottesville, Va.
respiratory diseases; infectious diseases; vaccines; therapy evaluation; socioenvironment..urban areas

Contr. AI-64-529 Kansas Univ. Med. Center, Kansas City, Kansas
vaccines..viral vaccines; viral typing reagents

Contr. AI-64-928 St. Louis Univ. Sch. Med., St. Louis, Mo.
research programs; vaccines standardization; viruses..adenoviruses; viruses..oncogenic viruses; species

Contr. AI-64-941 Microbiological, Bethesda, Md.
viruses..oncogenic viruses; host--neoplasm; neoplasms

Contr. AI-64-943 Flow Labs., Rockville, Md.
vaccines..respiratory syncytial virus vaccine; viruses.. respiratory syncytial virus; vaccines standardization

Contr. AI-65-31 Eli Lilly Co., Indianapolis, Ind.
viruses..herpes viruses; viruses..adenovirus type B; viruses..pseudorabies virus

Contr. AI-65-35 West Indies Univ. of Port-of-Spain, Trinidad
viruses..Oropouche virus; microbial culture; bioassay

Contr. AI-65-632 Hyland Lab., Los Angeles, Cal.
blood cells..leukocytes; blood groups; classification

Contr. AI-65-633 Tufts College, Boston, Mass.
histocompatibility; bioassay

Contr. AI-65-638 New York Univ. Med. Ctr., New York, N.Y.
transplantation immunology; immunology..antigens; blood cells..leukocytes

Contr. AI-65-655 Univ. Turin, Torino, Italy
transplantation immunology; cooperative study; laboratory facilities; research programs; geographical sites..Europe

Contr. AI-65-657 Univ. California, Berkeley, Cal.
blood cells..leukocytes; cell types; blood groups

Contr. AI-65-986 Univ. Paris, Paris, France
cooperative study; transplantation immunology; immune sera; leuko--agglutinins; immunology..antigens; instrumentation--methodology

Contr. AI-65-992 Univ. Leiden, Leiden, Netherlands
transplantation immunology; laboratory facilities; research programs; geographical sites..Europe

Contr. AI-65-993 Landsteiner Fdn., Amsterdam, Netherlands
transplantation immunology; laboratory facilities; research programs; geographical sites..Europe

Contr. AI-65-994 — Univ. California, Berkeley, Cal.
blood cells..leukocytes; immune sera; blood cells.. lymphocytes; kidney transplantation; immunological tests

Contr. AI-65-1007 — Center Labs., Port Washington, N.Y.
blood..serum; immune sera

Contr. AI-65-1027 — Univ. North Carolina, Chapel Hill, N.C.
immunology..isoantigens; blood cells..leukocytes; computer analysis

Contr. AI-65-1031 — Univ. Illinois, Chicago, Ill.
viruses..respiratory viruses; vaccines standardization; immunity

Contr. AM-63-574 — Johns Hopkins Univ., Baltimore, Md.
tissue preservation; pituitary gland; laboratory facilities

Contr. AM-64-44 — Natl. Acad. Sci., Washington, D.C.
nutrition; growth factors; diet

Contr. AM-65-32 — Medical Res. Council, London, England
steroids; information exchange; international centers

Contr. AM-65-76 — Bendix Corp., Cincinnati, Ohio
laboratory facilities; instrumentation

Contr. AM-65-591 — Brooklyn College, Brooklyn, N.Y.
synthesis; organic compounds

Contr. AM-65-597 — Marine Biol. Lab., Woods Hole, Mass.
laboratory facilities; research programs

Contr. AM-65-608 — Science Prod. Corp., Dover, N.J.
calorimetry; instrumentation--methodology

Contr. AM-65-1025 — New York Univ. Med. Ctr., New York, N.Y.
primates; blood..plasma; vaccines; research programs; blood preservation; immunity

Contr. CA-58-2357 — Syntex S.A., Mexico City, Mexico
steroids; synthesis; antineoplastic agents; laboratory facilities

Contr. CA-58-2390 — Health Research, Buffalo, N.Y.
immunity..isoimmunity; immunology..isoantigens; genetic strains

Contr. CA-59-3016 — Seton Hall College, Jersey City, N.J.
congenital abnormalities; zoonoses; diagnostic tests

Contr. CA-60-2433 — Southern Research, Birmingham, Ala.
cell differentiation; instrumentation--methodology

Contr. CA-60-3057 — Merck and Co., Rahway, N.J.
neoplastic growth; neoplasms transplantation

Contr. CA-60-3072 — Stanford Res. Inst., Menlo Park, Cal.
antineoplastic agents; virus inhibitors; viruses.. oncogenic viruses

Contr. CA-61-4320 — Parke-Davis and Co., Detroit, Mich.
synthesis; antineoplastic agents; laboratory facilities

Contr. CA-61-4344 — Temple Univ., Philadelphia, Pa.
breast neoplasms; carcinogenesis; neoplastic growth; cell differentiation; neoplasms transplantation

Contr. CA-61-4349 — I I T Research Inst., Chicago, Ill.
antineoplastic agents; antibiotics; chemical structure--biological activity

Contr. CA-61-4351 — Research Triangle, Durham, S.C.
synthesis; antineoplastic agents; steroid hormones

Contr. CA-61-4356 — Microbiological Assoc., Inc., Bethesda, Md.
viruses..oncogenic viruses; diagnostic tests; viral typing reagents

Contr. CA-61-4358 — Southern Research, Birmingham, Ala.
research programs; endocrine glands neoplasms

Contr. CA-61-4381 — Medical Literature, Philadelphia, Pa.
publications.literature survey; cancer chemotherapy; documentation systems

Contr. CA-61-4396 — Charles Pfizer Co., Maywood, N.J.
research programs; synthesis; antineoplastic agents

Contr. CA-61-4399 — Univ. Arizona, Tucson, Ariz.
ethnic groups..American Indians; cancer; information exchange; ecology, human

Contr. CA-62-143 — Georgetown Univ., Washington, D.C.
laboratory facilities; tissue culture

Contr. CA-62-144 — Pfizer and Co., Inc., Maywood, N.J.
viruses..oncogenic viruses; microbial culture; laboratory facilities

Contr. CA-62-179 — Presbyterian St. Lukes Hosp., Chicago, Ill.
laboratory animals; viruses..oncogenic viruses; neoplasms

Contr. CA-62-184 — Collaborative Res., Waltham, Mass.
antineoplastic agents; nitrogen mustards; synthesis

Contr. CA-62-412 — Bionetics Research Lab., Falls Church, Va.
viruses..oncogenic viruses; carcinogenesis; infant animals..newborn; primates..monkeys

Contr. CA-62-423 — Airborne Instruments, Long Island, N.Y.
cancer; computer analysis; bioassay; enzymes; instrumentation--methodology; computer diagnosis

Contr. CA-62-441 — New Jersey Col. Med., Jersey City, N.J.
neoplastic growth; tissue

Contr. CA-62-457 — Georgetown Univ., Washington, D.C.
cancer chemotherapy; cooperative study; therapy evaluation

Contr. CA-62-479 — Merck and Co., Rahway, N.J.
antineoplastic agents; synthesis; laboratory facilities

Contr. CA-62-482 — University Labs., Highland Park, N.J.
immune sera; viruses..Rous sarcoma virus

Contr. CA-62-484 — Starks Associates, Buffalo, N.Y.
laboratory facilities; synthesis; antineoplastic agents

Contr. CA-62-488 — Battelle Memorial, Columbus, Ohio
animal facilities; laboratory animals; genetic strains

Contr. CA-62-495 — Battelle Memorial, Columbus, Ohio
antineoplastic agents; neoplastic growth; growth inhibitors; neoplasms transplantation

Contr. CA-62-498 — Texas Inbred Mice, Houston, Tex.
genetic strains; laboratory animals; animal facilities

Contr. CA-62-500 — A.D. Little, Inc., Cambridge, Mass.
antineoplastic agents

Contr. CA-62-505 — Connecticut Univ., Storrs, Conn.
laboratory animals; germ--free; genetic strains

Contr. CA-62-506 — Western Reserve Univ., Cleveland, Ohio
genetic strains; rabbits; neoplasms transplantation; immunology

Contr. CA-62-832 — Stanford Res. Inst., Menlo Park, Cal.
carcinogenesis; adenocarcinoma; viruses.. oncogenic viruses; carcinogens

Contr. CA-62-4408 — A.D. Little, Inc., Cambridge, Mass.
antineoplastic agents

Contr. CA-63-13 — Univ. California, Berkeley, Cal.
cell types; cell culture

Contr. CA-63-43 — Health Reserch, Buffalo, New York
laboratory facilities; tissue; neoplasms

Contr. CA-63-44 — Oregon State Univ., Corvallis, Ore.
carcinogenesis; selenium; bioassay

Contr. CA-63-49 — Hlth. Ins. Plan of N.Y., New York, N.Y.
diagnostic tests; breast neoplasms

Contr. CA-63-56 — Zoological Soc. San. Diego, San Diego, Cal.
primates; genetic strains

Contr. CA-63-82 — Columbia Univ., New York, N.Y.
thyroxine; neoplastic growth

Contr. CA-63-94 — Schmidt Co., Madison, Wis.
laboratory animals; germ--free; genetic strains

Contr. CA-63-556 — Upjohn Co., Kalamazoo, Mich.
infectious diseases; viruses..oncogenic viruses; virus inhibitors; virus replication

Contr. CA-63-558 — Univ. Hawaii, Honolulu . Hawaii
cancer; epidemiology; migrants, sociological; ethnic groups..Japanese; geographical sites..United States

Contr. CA-63-590 — Baylor Univ., Houston, Texas
viruses..oncogenic viruses; leukemia; neoplastic cells

Contr. CA-63-593 — Health Research, Buffalo, N.Y.
leukemia; bioassay; blood..serum; neoplastic cells

Contr. CA-63-617 — Woodard Res. Corp., Herndon, Va.
carcinogenesis; infant animals..newborn

Contr. CA-63-622 — Hazleton Lab., Falls Church, Va.
antineoplastic agents; organic compounds; antibiotics; neoplasms transplantation

Contr. CA-63-1131 — Wyeth Labs., Philadelphia, Pa.
antineoplastic agents; microbial culture; fermentation

Contr. CA-63-1136 — Univ. Arizona, Tucson, Ariz.
antineoplastic agents; medicinal plants

Contr. CA-63-1142 — National Drug Co., Philadelphia, Pa.
antineoplastic agents

Contr. CA-63-1146 — Mason Research Inst., Worcester, Mass.
genetic strains; laboratory animals; immunology; neoplasms

Contr. CA-63-1147 — Res. Fdn. State Univ. New York, Albany, N.Y.
biometry; consultation; cancer

Contr. CA-63-1148 — Connecticut Dept. Mental Health, Hartford, Conn.
cancer; epidemiology; geographical sites..United States; statistics

Contr. CA-63-1153 — Yale Univ., New Haven, Conn.
histochemistry; instrumentation--methodology; electron microscopy

Contr. CA-63-1154 — Beth Israel Hosp., Boston, Mass.
diagnostic tests; neoplasms; cytodiagnosis

Contr. CA-63-1155 — Univ. Louisville, Louisville, Ky.
uterus neoplasms; morbidity; epidemiology; geographical sites..United States

Contr. CA-64-10 — Tohoku Univ. Sch. Med., Kitayobancho Sendai, Japan
carcinogenesis; ethnic groups..Japanese; migrants, sociological; geographical sites..United States

Contr. CA-64-13 — Michigan Univ., Ann Arbor, Mich.
documentation systems; cancer; medical records; statistics

Contr. CA-64-20 — North Carolina Univ., Chapel Hill, N.C.
cancer chemotherapy; therapy evaluation; statistics; mathematical models

Contr. CA-64-22 — Wells Labs., Inc., Jersey City, N.J.
toxicology; antineoplastic agents; steroids

Contr. CA-64-23 — Ochsner A. Med. Fdn., New Orleans, La.
therapy evaluation; antineoplastic agents; hormones; breast neoplasms

Contr. CA-64-30 — Mass. Health Res., Boston, Mass.
medical records; cancer chemotherapy; therapy evaluation; statistics; documentation systems

Contr. CA-64-31 — Costa Rica Univ., San Jose, Costa Rica
plants; antineoplastic agents

Contr. CA-64-36 — Univ. California, Berkeley, Cal.
statistis; cancer chemotherapy; therapy evaluation; antineoplastic agents

Contr. CA-64-37 — Einstein Med. Center, Philadelphia, Pa.
information exchange; mental health; occupations; documentation systems

Contr. CA-64-42 — Univ. California, San Francisco, Cal.
carcinogenesis; skin neoplasms; epithelium; transformation; growth

Contr. CA-64-44 — Natl. Acad. Sci., Washington, D.C.
conferences..international meetings; travel

Contr. CA-64-44 T.O.6 — National Academy Science, Washington, D.C.
laboratory animals; animal facilities; rabbits; criteria

Contr. CA-64-44 T.O.14 — National Academy Science, Washington, D.C.
tissue; tissue preservation

Contr. CA-64-44 T.O.16 — National Academy Science, Washington, D.C.
conferences..workshop; laboratory animals; animal facilities

(contd)

RESEARCH CONTRACTS (CONTD)

Contr. CA-64-44 T.O.26 — National Academy Science, Washington, D.C.
radiation effects; mortality; children; sex difference: occupational hazards: radiologists

Contr. CA-64-44 T.O.2 — National Academy Science, Washington, D.C.
publications..atlases; neoplasms

Contr. CA-64-44 T.O.2 — National Academy Science, Washington, D.C.
cancer; epidemiology; medical records; morbidity; military personnel

Contr. CA-64-45 — Cincinnati Univ., Cincinnati, Ohio
carcinogenesis; hydrocarbons; chemical carcinogens

Contr. CA-64-46 — Hosp. for Joint Dis., New York, N.Y.
mammary glands

Contr. CA-64-50 — Pfizer and Co., Inc., Brooklyn, N.Y.
antineoplastic agents: synthesis

Contr. CA-64-51 — Southern Research, Birmingham, Ala.
synthesis: antineoplastic agents

Contr. CA-64-52 — Marquette Univ., Milwaukee, Wis.
cell culture collections: trophoblast: tissue culture

Contr. CA-64-55 — Merck and Co., Rahway, N.J.
viruses..oncogenic viruses: carcinogenesis

Contr. CA-64-57 — Bionetics Research Lab., Falls Church, Va.
carcinogenesis: research programs

Contr. CA-64-80 — Miami Univ., Coral Gables, Fla.
cancer chemotherapy; steroids; therapy evaluation; antineoplastic agents

Contr. CA-64-83 — Charity Hosp. of La., New Orleans, La.
cancer chemotherapy: therapy evaluation: statistics

Contr. CA-64-85 — Mich. State Univ., East Lansing, Mich.
veterinary medicine; education..medical education; statistics: survey: education..schools

Contr. CA-64-88 — Ohio State Univ. Research Fdn., Columbus, Ohio
diagnostic tests; cancer; neoplastic cells; exfoliative cytology

Contr. CA-64-102 — Am. Nat'l. Red. Cross, Washington, D.C.
blood cells..thrombocytes: fractionation

Contr. CA-64-488 — Childrens Cancer Research Fdn., Boston, Mass.
blood cells..thrombocytes: blood preservation

Contr. CA-64-492 — Children's Hosp. of Phila., Philadelphia, Pa.
blood transfusion; blood cells..thrombocytes; therapy: leukemia

Contr. CA-64-495 — Jefferson Med. Col., Philadelphia, Pa.
antineoplastic agents: steroids: neoplastic growth

Contr. CA-64-499 — Norwegian Public Health, Oslo, Norway
cancer; cardiovascular disorders; epidemiology; ethnic groups..Norwegians: migrants, sociological

Contr. CA-64-500 — Stanford Res. Inst., Menlo Park, Cal.
synthesis: antineoplastic agents

Contr. CA-64-504 — Univ. Pittsburgh, Pittsburgh, Pa.
carcinogenesis: diagnostic tests

Contr. CA-64-508 — Upjohn Co., Kalamazoo, Mich.
synthesis: antineoplastic agents: laboratory facilities

Contr. CA-64-515 — George Washington University, Washington, D.C.
viruses..oncogenic viruses; immunology..antigens; host--neoplasm: host--virus

Contr. CA-64-522 — Commonwealth Science, Melbourne, Australia
antineoplastic agents: plants

Contr. CA-64-524 — Western Reserve Univ., Cleveland, Ohio
virus diseases; viruses..SV-40 virus; children; epidemiology

Contr. CA-64-534 — Brandeis Univ., Waltham, Mass.
cancer: diagnostic tests

Contr. CA-64-540 — Childrens Hosp., Los Angeles, Cal.
blood cells..thrombocytes: leukemia: children

Contr. CA-64-546 — Childrens Cancer Research Fdn., Boston, Mass.
carcinogens: atmosphere: diagnostic tests

Contr. CA-64-551 — Univ. Wisconsin, Madison, Wis.
antineoplastic agents: plants: growth inhibitors

Contr. CA-64-555 — Ohio State Univ. Res. Fdn., Columbus, Ohio
bladder neoplasms; diagnostic tests; exfoliative cytology; body fluids

Contr. CA-64-579 — Univ. California, Berkeley, Cal.
carcinogenesis: breast neoplasms

Contr. CA-64-877 — West Virginia Univ., Morgantown, W.Va.
cancer; diagnostic tests; exfoliative cytology; blood circulation dynamics

Contr. CA-64-878 — Univ. Illinois, Chicago, Ill.
blood cells: publications..atlases: bone marrow

Contr. CA-64-881 — Tulane Univ., New Orleans, La.
laboratory animals; primates..tree shrews; antineoplastic agents

Contr. CA-64-884 — Medical Literature, Inc., Philadelphia, Pa.
cancer chemotherapy; publications..literature survey; documentation systems

Contr. CA-64-886 — Univ. San Francisco, San Francisco, Cal.
carcinogenesis: cyclopentanes: metals

Contr. CA-64-890 — Univ. Miami, Coral Gables, Fla.
antineoplastic agents: toxicology

Contr. CA-64-906 — Univ. Texas, Houston, Texas
therapy evaluation; leukemia..acute leukemia; blood transfusion: blood cells..thrombocytes

Contr. CA-64-911 — Microbiological, Bethesda, Md.
laboratory facilities; cancer chemotherapy; therapy evaluation: antineoplastic agents

Contr. CA-64-917 — Univ. Texas, Houston, Texas
Therapy evaluation: cancer chemotherapy: statistics

Contr. CA-64-925 — Univ. Utah, Salt Lake City, Utah
laboratory animals: germ--free: genetic strains

Contr. CA-64-932 — South Shore Analytical, Islip, N.Y.
antineoplastic agents: bioassay

Contr. CA-64-933 — Food and Drug Res. Lab., Maspeth, N.Y.
secretory mechanisms; mucous membranes; irritants; air pollution: tobacco

Contr. CA-64-938 — New York Univ. Med. Cr., New York, N.Y.
smoking: tobacco: carcinogenesis: research programs

Contr. CA-64-1158 — General Foods Corp., White Plains, N.Y.
antineoplastic agents: organic compounds: bioassay

Contr. CA-64-1159 — Bristol-Myers Co., Syracuse, N.Y.
antineoplastic agents: synthesis

Contr. CA-65-2 — Burrough Bros. Pharm., Baltimore, Md.
synthesis: antineoplastic agents

Contr. CA-65-4 — Univ. Chicago, Chicago, Ill.
documentation systems; coding; cancer; epidemiology; information exchange

Contr. CA-65-5 — Univ. California, Berkeley, Cal.
medical records; documentation systems; cancer: coding: statistics

Contr. CA-65-6 — Mason Res. Inst., Worcester, Mass.
antineoplastic agents: hormones: cancer chemotherapy

Contr. CA-65-7 — Mich. Dept. of Hlth., Lansing, Mich.
antineoplastic agents: antibiotics: bioassay

Contr. CA-65-9 — Lab. Supply Co., Indianapolis, Ind.
laboratory animals: genetic strains

Contr. CA-65-10 — Lab. Supply Co., Indianapolis, Ind.
laboratory animals: germ--free: bacteria..Pseudomonas

Contr. CA-65-11 — Cutter Laboratories, Berkeley, Cal.
antineoplastic agents; virus inhibitors; viruses..oncogenic viruses

Contr. CA-65-13 — Chas. River Breeding, North Wilmington, Mass.
laboratory animals

Contr. CA-65-14 — Scripps Clinic Res. Fdn., La Jolla, Cal.
oxidoreductases..folic acid reductases: fractionation

Contr. CA-65-16 — Wyeth Labs., Philadelphia, Pa.
immunology; carcinogenesis; carcinogenesis inhibitors: carcinogens

Contr. CA-65-19 — Wright-Fleming Inst., London, England
viruses: particle size: membrane filters: instrumentation

Contr. CA-65-25 — Dublin Lab. Animals, Dublin, Va.
laboratory animals

Contr. CA-65-27 — Creighton Univ., Omaha, Nebr.
antineoplastic agents: synthesis

Contr. CA-65-34 — Jackson Lab., Bar Harbor, Maine
laboratory animals: genetic strains

Contr. CA-65-37 — White Eagle Farms, Doylestown, Pa.
laboratory animals

Contr. CA-65-40 — City Hosp., Padua, Italy
adenocarcinoma: breast neoplasms

Contr. CA-65-42 — Hawaii Univ., Honolulu, Hawaii
viruses..myxoma virus; viruses..fibroma virus; virus inhibitors: cancer chemotherapy: anti-neoplastic agents

Contr. CA-65-43 — Stanford Res. Inst., Menlo Park, Cal.
antineoplastic agents: viruses..oncogenic viruses

Contr. CA-65-44 — Health Research, Buffalo, N.Y.
immunity..isoimmunity: immunology..isoantigens:

Contr. CA-65-45 — Univ. Michigan, Ann Arbor, Mich.
antineoplastic agents; therapy evaluation; statistics: biomathematics: computer analysis

Contr. CA-65-46 — Einstein Med. Center, Philadelphia, Pa.
virus inhibitors; viruses..warts viruses; virus replication: bioassay

Contr. CA-65-47 — Medical Literature, Philadelphia, Pa.
publications..literature survey: carcinogenesis

Contr. CA-65-49 — Natl. Assn. Ed. Broadcasters, Urbana, Ill.
information exchange; communication; education.. audio--visual aids: cancer

Contr. CA-65-51 — Mason Res. Institute, Worcester, Mass.
antineoplastic agents: toxicology

Contr. CA-65-52 — Jackson Laboratory, Bar Harbor, Maine
genetic strains: mice

Contr. CA-65-53 — Georgetown Univ., Washington, D.C.
breast neoplasms: viruses..oncogenic viruses

Contr. CA-65-55 — Simonsen Labs., Gilroy, Cal.
genetic strains..mice

Contr. CA-65-57 — Simonsen Labs., Gilroy, Cal.
genetic strains..rats

Contr. CA-65-58 — Missouri Univ., Columbia, Mo.
medical records: veterinary medicine: documentation

Contr. CA-65-73 — Chemical Abstracts, Columbus, Ohio
documentation systems; information exchange; chemical structure: publications

Contr. CA-65-75 — Microbiological Assoc., Inc., Bethesda, Md.
genetic strains: rats

Contr. CA-65-77 — Nelsler Labs., Decatur, Ill.
synthesis: antineoplastic agents: laboratory facilities

Contr. CA-65-78 — Medical Res. Consult., Columbus, Ohio
diagnostic tests: cancer

Contr. CA-65-79 — Hazleton, Falls Church, Va.
carcinogenesis: infant animals..newborn primates

Contr. CA-65-80 — So. Animal Farms, Prattville, Ala.
genetic strains..mice

Contr. CA-65-88 — Documentation, Inc., Bethesda, Md.
cancer chemotherapy: therapy evaluation: medical records

Contr. CA-65-93 — Dublin Lab. Animals, Dublin, Va.
laboratory animals

Contr. CA-65-94 — Midwest Res. Inst., Kansas City, Mo.
synthesis: pyrimidines: antineoplastic agents

Contr. CA-65-95 — Germfree Life Res., Tampa, Fla.
germ--free; laboratory animals; neoplasms transplantation

Contr. CA-65-97 — Hospital for Sick Children, Toronto, Ontario, Canada
blood cells..leukocytes: leukemia

Contr. CA-65-99 — Sloan-Kettering Inst., New York, N.Y.
immunology: viruses..leukemia viruses

Contr. CA-65-100 — Michigan State Univ., East Lansing, Mich.
carcinogenesis; leukemia; disease transmission

Contr. CA-65-558 — National Sci. Teachers Assn., Washington, D.C.
publications..handbook; education; teaching; biology

Contr. CA-65-573 — Louisiana State Univ., New Orleans, La.
breast neoplasms; epidemiology; medical records; statistics

Contr. CA-65-575 — Stanford Res. Inst., Menlo Park, Cal.
antineoplastic agents; chemical structure--biological activity

Contr. CA-65-576 — Pied Piper Farms, Newark, Del.
laboratory animals; pregnancy

Contr. CA-65-578 — Dennen Animal Ind., Gloucester, Mass.
pregnancy

Contr. CA-65-579 — Lakeview Hamster, Newfield, N.J.
laboratory animals; pregnancy

Contr. CA-65-585 — Univ. Texas, Houston, Texas
viruses..oncogenic viruses; leukemia; lymphoma

Contr. CA-65-587 — Microbiological, Bethesda, Md.
antineoplastic agents; synthesis

Contr. CA-65-589 — Harvard Col., Cambridge, Mass.
cancer; diagnostic tests; exfoliative cytology; neoplastic cells

Contr. CA-65-590 — Engles Hamstery, Terre Haute, Ind.
laboratory animals

Contr. CA-65-592 — Endocrine Labs., Madison, Wis.
endocrine glands; secretory mechanisms; bioassay

Contr. CA-65-593 — Tulane Univ., New Orleans, La.
animal facilities; laboratory animals; genetic strains

Contr. CA-65-594 — Southern Research, Birmingham, A.
antineoplastic agents; microbial culture

Contr. CA-65-596 — Univ. Chicago, Chicago, Ill.
steroids; sex hormones

Contr. CA-65-601 — Medical Literature, Philadelphia, Pa.
publications..literature survey; cancer

Contr. CA-65-604 — Univ. Texas, Houston, Texas
viruses..oncogenic viruses; leukemia; lymphoma; lymph nodes

Contr. CA-65-605 — Research Fdn., State Univ. New York, Albany, New York
viruses..oncogenic viruses; virus--like particles

Contr. CA-65-606 — Univ. Minnesota, St. Paul, Minn.
viruses..oncogenic viruses; immunity; infant animals

Contr. CA-65-609 — Univ. California, Berkeley, Cal
laboratory facilities; carcinogenesis; research programs; leukemia

Contr. CA-65-612 — Einstein Medical Cr., New York, N.Y.
viruses..oncogenic viruses; carcinogenesis; genetics

Contr. CA-65-614 — A.R. Schmidt, Co. Madison, Wis.
laboratory animals; pregnancy..Cesarian section

Contr. CA-65-616 — Health Research, Buffalo, N.Y.
blood cells..leukocytes; leukemia

Contr. CA-65-617 — Taconic Farms, Germantown, N.Y.
laboratory animals; genetic strains; genetics..hybrids

Contr. CA-65-619 — Sloan-Kettering Inst., New York, N.Y.
research programs; cancer chemotherapy; drugs resistance; therapy evaluation; fibrosarcoma; adenocarcinoma; benzopyrenes; plasma cell neoplasms

Contr. CA-65-620 — Cornell Univ., Ithaca, N.Y.
carcinogenesis; leukemia

Contr. CA-65-622 — Univ. Texas, Houston, Texas
bacteria..mycoplasma; neoplastic cells

Contr. CA-65-623 — Univ. California, Berkeley, Cal.
laboratory animals; carcinogenesis; research programs

Contr. CA-65-624 — Laboratory Supply, Indianapolis, Ind.
laboratory animals; genetics..hybrids

Contr. CA-65-625 — Univ. California, Berkeley, Cal.
radiation effects; radiation therapy; dosage; lung neoplasms; therapy evaluation

Contr. CA-65-627 — Simonsen Lab., Gilroy, Cal.
laboratory animals; genetics..hybrids; genetic strains

Contr. CA-65-628 — Univ. Texas, Houston, Texas
leukemia; lymphoma; neoplasms transplantation; neoplastic growth; primates..marmoset

Contr. CA-65-629 — Univ. Pennsylvania, Philadelphia, Pa.
leukemia; veterinary medicine; criteria; publications ..literature survey; questionnaire

Contr. CA-65-634 — Flow Labs., Rockville, Md.
viruses..oncogenic viruses; microbial culture; laboratory facilities

Contr. CA-65-635 — Hazleton Labs., Falls Church, Va.
viruses..Rauscher leukemia virus; spleen

Contr. CA-65-636 — Health Res., Buffalo, N.Y.
bacteria..mycoplasma; cells

Contr. CA-65-639 — Univ. Michigan, Ann Arbor, Mich.
leukemia

Contr. CA-65-641 — Melpar, Inc., Falls Church, Va.
embryology; tissue culture; cell culture; laboratory facilities

Contr. CA-65-643 — California Biochem., Los Angeles, Cal.
organic compounds; synthesis; chemical structure; thymine; thymidine

Contr. CA-65-654 — Southern Research, Birmingham, Ala.
antineoplastic agents; leukemia; body fluids; cytolysis; neoplastic cells

Contr. CA-65-988 — Colorado State Univ., Fort Collins, Colo.
cancer; therapy evaluation; biometry; computer analysis; medical records

Contr. CA-65-990 — A.D. Little, Inc., Cambridge, Mass.
toxicology; antineoplastic agents

Contr. CA-65-991 — Herner Co., Washington, D.C.
documentation systems; medical records; information exchange

Contr. CA-65-999 — Univ. Minnesota, St. Paul, Minn.
immunity; infectious diseases; patient care; cancer

Contr. CA-65-1000 — Southwest Research, San Antonio, Texas
smoking; aerosols; alkylating agents; chemical structure; molecular structure

Contr. CA-65-1001 — Ohio State Univ. Res. Fdn., Columbus, Ohio
viruses..Rauscher leukemia virus; aerosols; disease transmission; leukemia

Contr. CA-65-1002 — Wistar Institute, Philadelphia, Pa.
bacteria..mycoplasma; neoplastic cells; leukemia; disease transmission

Contr. CA-65-1005 — Sloan-Kettering, New York, N.Y.
cancer chemotherapy; therapy evaluation; patient care; infectious diseases; antibiotics; isolation

Contr. CA-65-1008 — Univ. Texas, Houston, Texas
cancer chemotherapy; therapy evaluation; leukemia.. acute leukemia; antibiotics; blood transfusion; germ--free; dosage; environment

Contr. CA-65-1012 — Flow Labs., Rockville, Md.
blood..serum; cold

Contr. CA-65-1013 — Univ. Pennsylvania, Philadelphia, Pa.
disease transmision; leukemia; veterinary medicine

Contr. CA-65-1015 — Olson Contract Co., Madison, Wis.
laboratory animals

Contr. CA-65-1017 — Chicago Park Dist., Chicago, Ill.
laboratory animals

Contr. CA-65-1018 — Notre Dame Univ., Notre Dame, Ind.
laboratory animals; genetic strains; germ--free

Contr. CA-65-1020 — Montreal Childrens Hosp., Montreal, Quebec, Canada
blood..plasma; blood preservation; leukemia; children

Contr. CA-65-1021 — Chem. Abstracts Service, Columbus, Ohio
cancer; epidemiology; information exchange; documentation system

Contr. CA-65-1023 — Health Res., Buffalo, N.Y.
leukemia..acute leukemia; epidemiology; cooperative study; longitudinal study

Contr. CA-65-1024 — Medical Lit., Philadelphia, Pa.
publications..literature survey; cancer chemotherapy; documentation systems

Contr. CA-65-1028 — Wistar Institute, Philadelphia, Pa.
neoplastic cells; viruses..leukemia viruses; cell culture; hematopoietic tissues

Contr. CA-65-1029 — Temple Univ., Philadelphia, Pa.
carcinogenesis; fungi; metabolites

Contr. CA-65-1032 — Mason Research Inst.
viruses..Rauscher leukemia virus; biosynthesis

Contr. CA-65-1033 — Melpar, Inc., Falls Church, Va.
viruses..Moloney leukemia virus; biosynthesis

Contr. CA-65-1034 — Massachusetts General Hosp., Boston, Mass.
blood cells..leukocytes; blood cells..thrombocytes; blood preservation

Contr. CA-65-1035 — Univ. Connecticut, Storrs, Conn.
nucleoside triphosphates; synthesis; chemical structure--biological activity

Contr. CA-65-1036 — City of Hope, Duarte, Cal.
toxicology; fungi; food poisoning; metabolites

Contr. CA-65-1039 — Rutgers Univ., New Brunswick, N.J.
viruses..oncogenic viruses; nucleic acids; immunology ..antigens

Contr. CA-65-1041 — Univ. Utah, Salt Lake City, Utah
synthesis; antineoplastic agents; purine nucleosides; virus inhibitors

Contr. CA-65-1042 — Simonsen Labs., White Bear Lake, Minn.
laboratory animals; genetic strains

Contr. CA-65-1044 — Monsanto Res. Corp., Dayton, Ohio
synthesis; antineoplastic agents

Contr. CA-65-1045 — Dow Chemical Co., Midland, Mich.
aerosols; contamination; biological control; laboratory facilities

Contr. CA-65-1050 — E.R. Squibb and Sons, New York, N.Y.
neoplasms transplantation; steroids; cytolysis; adenocarcinoma

Contr. CA-65-1054 — Hoffman-Laroche, Nutley, N.J.
synthesis; antineoplastic agents; 5--fluoro--2'--deoxyuridine

Contr. CA-65-1056 — E.R. Squibb and Sons, New York, N.Y.
steroids; synthesis; laboratory facilities

Contr. CA-65-1070 — Upjohn Co., Kalamazoo, Mich.
antineoplastic agents; prednisone; synthesis

Contr. CA-65-1071 — E.R. Squibb and Sons, New York, N.Y.
synthesis; antineoplastic agents; delta--1--testololactone

Contr. CA-65-1072 — Smithsonian Inst., Washington, D.C.
neoplasms; animals; information exchange; registry

Contr. DBS-63-548 — Southwest Blood Bank, Scottsdale, Ariz.
blood..plasma; hemagglutinins

Contr. DBS-64-557 — Univ. Texas, Austin, Texas
plastics; blood preservation; bone marrow preservation; blood cells..thrombocytes

Contr. DBS-65-81 — Booz-Allen Applied, Bethesda, Md.
biometry; bioassay; drugs

Contr. DBS-65-87 — Miami Serpentarium, Miami, Fla.
venoms

Contr. DBS-65-98 — Cordis Corp., Miami, Fla.
immune serum; viral typing reagents

Contr. DBS-65-1046 — Baylor Univ., Dallas, Texas
immunology..antigens; immunology..antibodies; hemagglutination

(contd)

RESEARCH CONTRACTS (CONTD)

Contr. DBS-65-1052 — Electronic Assoc., Rockville, Md.
computer simulation; mathematical models; biology; photochemistry; virus inhibitors

Contr. DBS-65-1053 — Sharpe Research Fdn., Bryn Mawr, Pa.
blood preservation; blood..plasma; blood cells.. thrombocytes; blood groups

Contr. DE-64-502 — Alpha Research and Development, Blue Island, Ill.
dental materials; synthesis

Contr. DE-64-530 — Harris Research Lab., Washington, D.C.
dental materials; synthesis; dental prosthesis

Contr. DE-64-548 — Epoxylite Corp., South El Monte, Cal.
dental materials..adhesives; dental materials.. sealing properties; synthesis

Contr. DE-64-558 — Virginia Inst. for Scientific Research, Richmond, Va.
hydroxyapatite; surface properties

Contr. DE-64-583 — National Childrens Cardiac Hosp., Miami, Fla.
dental caries; microorganisms

Contr. DE-64-924 — American Dental Assn., Chicago, Ill.
communication; information exchange

Contr. DE-64-944 — Res. Fdn. State Univ. New York, Albany, N.Y.
carboxymethyl cellulose chromatography; instrumentation--methodology; bioassay

Contr. DE-65-15 — M.M.M. Co., St. Paul, Minn.
dental structure..teeth; adhesion

Contr. DE-65-82 — Stanford Res. Inst., Menlo Park, Cal.
dental structure..teeth; dental materials..adhesives; apatites; organic compounds; chemical structure--biological activity

Contr. DE-65-607 — International Assn. Dental Res., Chicago, Ill.
publications..journal

Contr. DRFR-64-44 T.O.12 — National Academy Science, Washington, D.C.
laboratory animals; veterinary medicine

Contr. DRFR-65-600 — Rutgers Univ., New Brunswick, N.J.
communication; information theory; survey; information exchange

Contr. DRG-63-84 — American Univ., Washington, D.C.
training; administrative personnel; medical research

Contr. DRG-64-44 — Natl. Acad. Sci., Washington, D.C.
medical economics; cost; research programs; public health

Contr. DRG-65-3 — George Wash. Univ., Washington, D.C.
statistical service centers; computer programming

Contr. DRS-65-12 — Beckman Instruments, Palo Alto, Cal.
laboratory facilities; instrumentation

Contr. GM-64-44 — Natl. Acad. Sci., Washington, D.C.
conferences..international meetings; travel

Contr. GM-64-44 T.O.8 — National Academy Science, Washington, D.C.
occupational hazards; radiation effects; mortality; radiologists

Contr. GM-64-44 T.O.22 — National Academy Science, Washington, D.C.
conferences..international meetings; biology; travel

Contr. GM-64-71 — Field Emission, McMinnville, Ore.
field microscopy; instrumentation--methodology

Contr. GM-65-997 — Materials Res. Corp., Orangeburg, N.Y.
field ion microscopy

Contr. GM-65-1057 — Research Triangle, Durham, N.C.
toxicology; steroids

Contr. HD-65-21 — Gallaudet Col., Washington, D.C.
publications..literature survey; communicative disorders

Contr. HD-65-26 — Gerontological Soc., St. Louis, Mo.
publications..journals; aging

Contr. HD-65-56 — N.Y. Academy Sciences, New York, N.Y.
conferences; memory--retention; child development

Contr. HD-65-59 — Woods Schools, Langhorne, Pa.
conferences; mental retardation; cognition; aging

Contr. HD-65-71 — Boston Lying-in Hosp., Boston, Mass.
conferences; diabetes; pregnancy; metabolic diseases

Contr. HD-65-580 — Excerpta Medica Fdn., Amsterdam, Netherlands
publications..literature survey; aging; translations

Contr. HD-65-581 — Salk Institute, La Jolla, Cal.
conferences; aging; biology

Contr. HD-65-582 — Univ. Washington, Seattle, Wash.
publications..handbook; child development

Contr. HD-65-586 — Merrill-Palmer Inst., Detroit, Mich.
conferences; child development; infant humans; education; teaching

Contr. HD-65-613 — Airlie Fdn., Warrenton, Va.
mental retardation; education..audio--visual aids; communication

Contr. HD-65-637 — John Hopkins Univ., Baltimore, Md.
child development; infant humans; vocalization; survey

Contr. HD-65-640 — Pan American Hlth. Organization, Washington, D.C.
nutrition; survey; ethnic groups..American Indians; geographical sites..Latin American

Contr. HD-65-645 — Gallaudet College, Washington, D.C.
publications..literature survey; communicative disorders

Contr. HD-65-646 — Gerontological Soc., St. Louis, Mo.
aging; publications; survey; scientists

Contr. HD-65-647 — Gerontological Soc., St. Louis, Mo.
aging; education; training; rehabilitation

Contr. HD-65-985 — Mental Hlth. Materials, New York, N.Y.
pregnancy..perinatal; education..audio--visual aids; publications..handbook

Contr. HD-65-989 — Wiche, Boulder, Colo.
mental retardation; cooperative study; mental hospitals; geographical sites..United States

Contr. HD-65-996 — Bank St. Col. of Education, New York, N.Y.
child development; teaching; role; psychologists

Contr. HD-65-1004 — Microbiological, Bethesda, Md.
viruses..rubella virus; immunology..antigens; immunology..complement

Contr. HD-65-1009 — Harvard Col., Cambridge, Mass.
cognition; child development; infant humans

Contr. HD-65-1010 — Inst. for Juvenile Research, Chicago, Ill.
conferences; child development; perception

Contr. HD-65-1011 — Fels Research Inst., Yellow Springs, Ohio
learning; child development; performance; problem solving; concept

Contr. HD-65-1014 — Univ. Minnesota, Minneapolis, Minn.
pregnancy; menstrual cycle

Contr. HD-65-1016 — American Pub. Hlth. Assn., New York, N.Y.
publications..journal; public health

Contr. HD-65-1048 — Princeton Univ., Princeton, N.J.
survey; birth control; ethnic groups..Americans

Contr. HE-63-620 — Puerto Rico Univ., San Juan, P.R.
death certificates; survey; mortality; medical records; geographical sites..Puerto Rico

Contr. HE-63-1139 — National Academy Science, Washington, D.C.
coronary disorders; diagnostic tests; epidemiology

Contr. HE-65-38 — Hawaii Univ., Honolulu, Hawaii
epidemiology; medical records; heart diseases; computer analysis; geographical sites..Hawaii

Contr. HE-65-1003 — Kuakini Hosp., Honolulu, Hawaii
heart disorders; morbidity

Contr. HE-65-1058 — Stanford Res. Inst., Menlo Park, Cal.
heart..artificial heart; research programs; survey

Contr. HE-65-1059 — General Dynamics Corp., San Diego, Cal.
heart..artificial heart; research programs; survey; instrumentation--methodology

Contr. LM-65-20 — Univ. California, Berkeley, Cal.
documentation systems; communication; information center..computer

Contr. LM-65-29 — Photon Inc., Wilmington, Mass.
computer; computer printing; laboratory facilities

Contr. LM-65-91 — Biological Abstracts, Philadelphia, Pa.
publications..literature survey; documentation systems; translations

Contr. LM-65-92 — Excerpta Medica Fdn., Amsterdam, Netherlands
publications..literature survey; translations; geographical sites..U.S.S.R.; geographical sites..Asia

Contr. LM-65-559 — Univ. Colorado Med. Cr., Denver, Colo.
publications..literature survey; information exchange; documentation systems; medical records

Contr. LM-65-571 — Federation of American Soc., Bethesda, Md.
publications..literature survey; conferences.. international meetings

Contr. LM-65-631 — Yale Univ., New Haven, Conn.
computer analysis; publications..books; publications..journal

Contr. LM-65-1043 — Fed. American Society Ex. Bio., Bethesda, Md.
conferences..international meetings; biology; publications

Contr. MH-60-3758 — Temple Univ. Res. Inst., Philadelphia, Pa.
synthesis; phenothiazines

Contr. MH-61-3021 — Regis Chemical Co., Chicago, Ill.
synthesis; psychotropic drugs; chemical structure--biological activity

Contr. MH-61-4394 — Stanford Res. Inst., Menlo Park, Cal.
publications..handbook; psychopharmacology

Contr. MH-62-188 — Johns Hopkins Univ., Baltimore, Md.
mental health; community service; training; mental health personnel

Contr. MH-62-454 — Med. Res. Association of N.Y., New York, N.Y.
drugs addiction; rehabilitation; therapy evaluation; community service

Contr. MH-62-475 — Lynchburg T. Sch. Hosp., Colony, Va.
phenylketonuria; epidemiology; longitudinal study; medical records

Contr. MH-63-555 — Hazleton, Falls Church, Va.
psychotropic drugs; synthesis

Contr. MH-63-609 — Am. Social Hlth. Assn., New York, N.Y.
publications..literature survey; documentation systems; narcotics

Contr. MH-63-1135 — Am. Assn. on Mental Def., Columbus, Ohio
mental retardation; documentation systems; information exchange

Contr. MH-64-28 — World Fed. Mental Hlth., Geneva, Switzerland
mental health; survey; information exchange; geographical sites..Switzerland

Contr. MH-64-32 — Fdn. for Psychiatry, Mt. Kisco, N.Y.
publications..literature survey; mental health; occupations; documentation systems

Contr. MH-64-53 — Mass. General Hosp., Boston, Mass.
alcoholism; therapy evaluation; community service; social service

Contr. MH-64-503 — Pan American Health Org., Washington, D.C.
mental hospitals; mental health personnel; information exchange; geographical sites..Latin America

Contr. MH-64-532 — Psychological Institute Denmark, Copenhagen, Denmark
mental disorders; family; adoption; foster homes; survey; medical records

Contr. MH-64-537 — Natl. Council Crime and Delinquency, New York, N.Y.
criminology; juvenile delinquency; documentation systems; information exchange; survey

Contr. MH-64-578 — Mental Health Matls. Cr., New York, N.Y.
mental health; interpersonal behavior; socio-environment; family..parent--child; survey

Contr. MH-64-931 — Kline Labs., San Francisco, Cal.
drugs addiction; survey; narcotics

Contr. MH-64-958 — Kaiser Fdn. Hospital, Oakland, Cal.
psychotropic drugs; survey

Contr. MH-65-1 — Natl. Child Res. Center, Washington, D.C.
research programs; child development; laboratory facilities

Contr. MH-65-8 — Ala. Dept. Pub. Health, Montgomery, Ala.
conferences; education..audio--visual aids; public health nurses; mental health

Contr. MH-65-17 — National Ass'n. State Mental Health, Washington, D.C.
information exchange; mental health; community service

Contr. MH-65-18 — Natl. Comm. for Children, Washington, D.C.
information exchange; mental health; children; community service

Contr. MH-65-24 — N.C. Dept. Mental Hlth., Raleigh, N.C.
documentation systems; medical records; mental retardation; information exchange

Contr. MH-65-28 — Mental Hlth. Film Bd., New York, N.Y.
publications..literature survey; education.. audio--visual aids; mental health

Contr. MH-65-30 — Hawaii Dept. of Hlth., Honolulu, Hawaii
information exchange; psychiatric patients; geographical sites..Hawaii; medical records

Contr. MH-65-39 — Documentation, Inc., Bethesda, Md.
psychopharmacology; information exchange; documentation systems

Contr. MH-65-41 — Menninger Fdn., Topeka, Kans.
mental health; children; emotional crisis; psychotherapy; therapy evaluation

Contr. MH-65-48 — Vt. Dept. Mental Hlth., Montpelier, Vt.
conferences; community service; mental health; socioenvironment..rural areas; geographical sites.. Vermont

Contr. MH-65-50 — Kentucky Mental Health Fdn., Louisville, Ky.
conferences..workshop; career; motivation; mental health

Contr. MH-65-54 — American Society for Pharm., Milan, Italy
conferences..international meetings; catecholamines

Contr. MH-65-70 — Univ. Cncl. Educ. Adm., Columbus, Ohio
conferences; teaching; administrative personnel; education..schools

Contr. MH-65-72 — Conn. Dept. Mental Hlth., Hartford, Conn.
conferences; training; education; psychiatric patients

Contr. MH-65-74 — Am. Psychiatric Assn., Washington, D.C.
mental hospitals; survey; patient care; psychiatric patients

Contr. MH-65-83 — Penna. Citizens Cncl., Harrisburg, Pa.
conferences; community service; aging

Contr. MH-65-84 — American Psychiatric Assn., Washingon, D.C.
conferences; mental disorders; classification

Contr. MH-65-86 — La. St. Dept. Hospitals, Baton Rouge, Ala.
conferences; nurses; alcoholism; patient care

Contr. MH-65-96 — New Jersey Dept. of Inst., Trenton, N.J.
conferences; criminology; rehabilitation; community; social adjustment

Contr. MH-65-574 — North Dakota State Dept. Hlth., Bismark, N.D.
conferences; alcoholism; children..adolescence

Contr. MH-65-583 — Rhode Island Coun. Com. Ser., Newport, R.I.
conferences; mental retardation; public health nurses; social worker

Contr. MH-65-584 — Louisiana State Dept. Hospitals, New Orleans, La.
conferences; nurses; mental health; communication

Contr. MH-65-595 — Oregon State B. and Cntl., Gearhart, Ore.
conferences; illegitimacy; social psychology; community service

Contr. MH-65-597 — Marine Biol. Lab., Woods Hole, Mass.
laboratory facilities; research programs

Contr. MH-65-598 — American Psychiatric Assn., Washington, D.C.
psychiatrists; information exchange; geographical sites..United States

Contr. MH-65-602 — State of California, Asilomar, Cal.
conferences; mental health personnel; volunteers; community service

Contr. MH-65-610 — Rhode Island Dept. Soc. Welfare, Providence, R.I.
conferences; alcoholism; children..adolescence; education

Contr. MH-65-615 — State of Delaware, Wilmington, N.J.
conferences; mental health; community service; social psychology

Contr. MH-65-618 — Maryland State Dept. Mental Hlth., Baltimore, Md.
conferences; aging; mental health

Contr. MH-65-626 — General Practitioner Res., Middlesex, England
psychotropic drugs; physicians; medical practice

Contr. MH-65-630 — Florida Assn. Mental Health, Orlando, Fla.
conferences; mental health; community service; rehabilitation

Contr. MH-65-648 — Inst. Behavioral Science, Kaneohe, Oahu
mental health; ethnic groups; socioculture; survey; geographical sites..United States

Contr. MH-65-649 — Columbia Univ., New York, N.Y.
mental health personnel; community service; mental health; volunteers

Contr. MH-65-650 — Conn. Dept. Mental Health, Hartford, Conn.
conferences; role; clergy; psychotherapy; mental health; community

Contr. MH-65-652 — Mental Hlth. Film Bd., New York, N.Y.
mental health; community service; education..audio--visual aids; information exchange

Contr. MH-65-653 — California Dept. Mental Hygiene, Sacramento, Cal.
conferences; mental health; community service; survey

Contr. MH-65-987 — Friends of Psychiatric Res., Baltimore, Md.
information exchange; mental disorders; geographical sites..United States

Contr. MH-65-995 — Univ. Rochester, Rochester, N.Y.
mental disorders; epidemiology; survey; statistics

Contr. MH-65-998 — Harvard Col., Cambridge, Mass.
mental disorders; schizophrenia; diagnostic tests

Contr. MH-65-1026 — Kommune Hospitalet, Copenhagen, Denmark
schizophrenia; genetics; socioenvironment; geographical sites..Europe; survey

Contr. MH-65-1038 — NEN Biomedical Assay, Boston, Mass.
psychotropic drugs; bioassay; laboratory facilities

Contr. MH-65-1047 — Univ. Michigan, Ann Arbor, Mich.
mental health; community service; survey

Contr. MH-65-1049 — Baltimore City Public Schools, Baltimore, Md.
epidemiology; mental disorders; documentation systems; information exchange

Contr. MH-65-1055 — New York Academy Med., New York, N.Y.
mental hospitals; community service; forensic medicine; mental health; courts

Contr. NB-62-852 — Clarke Sch. for Deaf, Northampton, Mass.
communicative disorders; deafness; genetics; family; survey

Contr. NB-63-46 — Columbia Univ., New York, N.Y.
nervous system disorders; education..universities; training

Contr. NB-64-44 — Natl. Acad. Sci., Washington, D.C.
medicinal plants; taxonomy; ecology, human; survey; geographical sites..Mariana Islands

Contr. NB-64-44 T.0.1 — National Academy Science, Washington, D.C.
conferences..international meetings; travel; medical research

Contr. NB-64-44 T.0.3 — National Academy Science, Washington, D.C.
research programs; nervous system disorders; criteria

Contr. NB-64-44 T.0.4 — National Academy Science, Washington, D.C.
nutrition; vertebrates; research programs

Contr. NB-64-72 — Hazleton, Falls Church, Va.
primates; animal facilities; vaccines

Contr. NB-64-550 — Blanche Association, Kensington, Md.
nervous system disorders; medical records; therapy evaluation; computer analysis

Contr. NB-64-586 — North Carolina Univ., Chapel Hill, N.C.
infant humans; biomathematics

Contr. NB-64-870 — Computers for Ind., New York, N.Y.
nervous system disorders; medical records; therapy evaluation; computer analysis

Contr. NB-64-871 — Service Bureau Corp., Wheaton, Md.
computer analysis; medical records; nervous system disorders

Contr. NB-64-892 — California Univ., Berkeley, Cal.
information exchange; documentation systems; brain

Contr. NB-65-21 — Johns Hopkins Univ., Baltimore, Md.
communication; information exchange

Contr. NB-65-33 — Ore. Comm. for Blind, Portland, Ore.
information exchange; blindness; geographical sites..Oregon

Contr. NB-65-90 — Microbiological Assoc., Inc., Bethesda, Md.
cell types; cell culture

Contr. NB-65-597 — Marine Biol. Lab., Woods Hole, Mass.
laboratory facilities; research programs

Contr. NB-65-599 — New York State Dept. Soc. Welfare, New York, N.Y.
information exchange; blindness; geographical sites.. United States

Contr. NB-65-603 — Sanlab, Baltimore, Md.
instrumentation

Contr. NB-65-611 — Natl. Biomedical Res. Fdn., Silver Spring, Md.
nerves..neurons; cell components..cell nucleus; biomathematics; computer analysis

Contr. NB-65-651 — State of New Hampshire, Concord, N.H.
blindness; information exchange

Contr. OD-62-853 T.0.24 — National Academy Science, Washington, D.C.
career; biological scientists; survey; education.. postgraduate education

Contr. OD-65-1006 — Fels Research Inst., Yellow Springs, Ohio
bone deformities; growth; nutrition; survey; geographical sites..Latin America

Contr. OIR-65-89 — Pan American Health Organization, Washington, D.C.
nutrition; survey; geographical sites..Latin America

Contr. OIR-65-572 — Univ. California, Berkeley, Cal.
survey; nutrition; diet; geographical sites..Latin America

Contr. OIR-65-642 — Univ. Texas, Galveston, Texas
nutrition; survey; geographical sites..Latin America; protein; dietary deficiency

Contr. AI-63-563 — Res. Fdn. State Univ. New York, Albany, N.Y.
vaccines, viral vaccines; therapy evaluation; family; virus diseases

Contr. AI-64-1169 — Flow Labs., Rockville, Md.
vaccines..viral vaccines; vaccines standardization; respiratory diseases

Contr. AI-65-562 — Childrens Hosp.Res. Fdn., Columbus, Ohio
viruses..rhinovirus; microbial culture; respiratory diseases

Contr. AI-65-563 — Eli Lilly Co., Indianapolis, Ind.
research programs; viruses..respiratory syncytial viruses; immunity; vaccines

Contr. AI-65-568 — Flow Labs., Inc., Rockville, Md.
immune sera; typing sera

Contr. CA-61-3764 — Riker Labs., Northridge, Cal.
laboratory facilities; synthesis; antineoplastic agents

Contr. CA-62-161 — Microbiological, Bethesda, Md.
laboratory animals; genetic strains; genetics..hybrids

Contr. CA-62-168 — Upjohn Co., Kalamazoo, Mich.
antineoplastic agents; synthesis; fermentation

Contr. CA-62-467 — Illinois Univ., Chicago, Ill
cancer chemotherapy; therapy evaluation

(contd)

RESEARCH CONTRACTS (CONTD)

Contr. CA-63-68 — Southern Research, Birmingham, Ala.
virus inhibitors; viruses..oncogenic viruses; antineoplastic agents

Contr. CA-63-565 — Health Research, Buffalo, N.Y.
cancer chemotherapy; therapy evaluation; statistics

Contr. CA-63-1161 — Baltimore Biological Lab., Baltimore, Md.
viruses..oncogenic viruses

Contr. CA-63-1165 — General Foods Corp., White Plains, N.Y.
oxidation; fats; carcinogenesis; carcinogens

Contr. CA-63-1168 — Hazleton Labs., Falls Church, Va.
research programs; antineoplastic agents; neoplasms transplantation

Contr. CA-64-64 — Lawrence Univ., Lawrence, Kans.
genetic strains; mice

Contr. CA-64-66 — Southern Research, Birmingham, Ala.
carcinogenesis; carcinogens

Contr. CA-64-560 — Univ. Utah, Salt Lake City, Utah
ecdysone; antineoplastic agents

Contr. CA-64-866 — Columbia Univ., New York, N.Y.
steroids; proteins; conjugates; synthesis

Contr. CA-64-1162 — Melpar, Inc., Falls Church, Va.
viruses..oncogenic viruses; deoxyribonucleic acid; tissue culture

Contr. CA-65-60 — Univ. Minn., Minneapolis, Minn.
medical records; veterinary medicine; information exchange; documentation systems

Contr. CA-65-61 — A.D. Little, Inc., Cambridge, Md.
antineoplastic agents

Contr. CA-65-65 — South Jersey Med. Res. Fdn., Camden, N.J.
carcinogenesis; leukemia

Contr. CA-65-66 — Rawley Farms, Plymouth, Mich.
genetic strains; mice

Contr. CA-65-67 — Chicago Med. School, Chicago, Ill.
research programs; carcinogenesis

Contr. CA-65-561 — Schmidt Company, Madison, Wis.
genetic strains; mice

Contr. CA-65-564 — Lakeview Hamster, Newfield, N.J.
laboratory animals

Contr. CA-65-565 — Microbiological, Bethesda, Md.
genetics..inbreeding; genetic strains

Contr. CA-65-567 — George Washington Univ., Washington, D.C.
leukemia; education..audio-visual aids

Contr. CA-65-569 — Roma Kennels, Dunstable, Mass.
laboratory animals

Contr. CA-65-1065 — Health Res., Buffalo, N.Y.
germ-free; therapy evaluation; antineoplastic agents; cancer chemotherapy

Contr. DE-64-869 — Halifax County Health Dept., Halifax, S.C.
oral--facial anomalies; family; survey; genetics

Contr. DRS-OD-65-62 — Ord-Marine Engr. Co., Kensington, Md.
animal facilities

Contr. GM-65-1061 — Stanford Res. Inst., Menlo Park, Cal.
drugs; toxicology; primates..Macaca mulatta; primates..squirrel monkeys; primates..marmoset

Contr. GM-65-1063 — Massachusetts General Hosp., Boston, Mass.
education..medical education..training

Contr. GM-65-1066 — Burrough Wellcome, Tuckahoe, N.Y.
drugs; toxicology; chemical structure--biological activity

Contr. GM-65-1069 — Parke, Davis Co., Detroit, Mich.
toxicology; drugs; research programs

Contr. HD-65-566 — Nepera Chemical Co., Harriman, N.Y.
relaxin; pregnancy; ovary

Contr. HE-65-1060 — Westinghouse, Washington, D.C.
heart..artificial heart; research programs; survey; instrumentation--methodology

Contr. LM-65-1064 — Western Reserve Univ., Cleveland, Ohio
publications..literature survey; schistosomiasis

Contr. MH-62-465 — General Electric Co., Philadelphia, Pa.
instruments; brain mapping; primates; instrumentation

Contr. MH-65-63 — S.C. Alcoholic Program, Columbia, S.C.
conferences; alcoholism; rehabilitation

Contr. MH-65-64 — Md. Dept. Mental Hygiene, Baltimore, Md.
conferences; mental health; occupations; community service

Contr. MH-65-68 — NEN Biomedical Assay, Boston, Mass.
psychotropic drugs; metabolites; neurohormones; publications..handbook

Contr. MH-65-1067 — State Univ. North Carolina, Raleigh, N.C.
publications..atlas; mental health; community service; geographical sites..United States

Contr. MH-65-1068 — Univ. Utah, Salt Lake City, Utah
mental disorders; children..adolescence; mental hospitals; community service

Contr. OD-OIR-65-69 — Tulane Univ. of Louisiana, New Orleans, La.
nutrition; diet; statistics; survey

Contr. OIR-65-1062 — Virginia Poly. Inst., Blacksburg, Va.
nutrition; children; proteins; survey; geographical sites..Asia

APPENDIX III

ALPHABETICAL LISTING OF INVESTIGATORS

A.D. Little, Inc.	Contr. CA-62-500
A.D. Little, Inc.	Contr. CA-62-4408
A.D. Little, Inc.	Contr. CA-65-61
A.D. Little, Inc.	Contr. CA-65-990
A.R. Schmidt, Co.	Contr. CA-65-614
ABAJIAN, JOHN, Jr.	HE-05512-5
ABBO, FRED E.	HD-01053-1
ABBOTT, BERNARD C.	HE-08218-3
ABBOTT, MITCHEL T.	AM-09314-1
ABBOTT, URSULA K.	HE-02566-9
ABDUL, AL-SAADI	CA-05174-6
ABE, TAKESHI	HE-05593-3
ABEL, FRANCIS L.	HE-08042-3
ABELES, ROBERT H.	GM-12633-2
ABELMANN, WALTER H.	HE-05217-5
ABELMANN, WALTER H.	HE-07614-3
ABELSON, DENIS M.	AM-05912-3
ABELSON, NEVA M.	GM-06218-6
ABELSON, ROBERT P.	MH-04682-3
ABERNATHY, ROBERT S.	NB-04223-3
ABILDSKOV, J.A.	HE-03241-7
ABOOD, LEO G.	NB-05856-1
ABRAHAMS, IRVING	AI-02335-7
ABRAHAMSEN, CHRISTINE E	NU-00168-1
ABRAHAMSON, EDWIN W.	NB-02340-6
ABRAHAMSON, EDWIN W.	NB-05687-1
ABRAHAMSSON, SIXTEN	GM-11653-5
ABRAMS, ADOLPH	GM-05810-7
ABRAMS, ARNOLD	OM-01151-2
ABRAMS, GERALD D.	AI-05827-2
ABRAMS, HERBERT L.	HE-03043-8
ABRAMS, HERBERT L.	HE-07328-3
ABRAMS, RICHARD	CA-03476-8
ABRAMS, ROBERT M.	AM-08241-2
ABRAMSON, ARTHUR S.	AM-05284-4
ABRAMSON, DAVID I.	HE-02568-9
ABRASH, HENRY I.	GM-09905-3
ABRUZZO, ANTHONY M.	OM-01752-2
ABRUZZO, JOHN J.	AM-08786-1
ABU-LABAN, BAHA R.	MH-08994-1
ACHESON, GEORGE H.	HE-01506-12
ACHORD, JAMES L.	AM-08164-2
ACKERMAN, CLEMENS J.	AM-08175-2
ACKERMAN, EUGENE	FR-00007-3
ACKERMAN, G. ADOLPH	HE-04041-7
ACKERMAN, LAUREN V.	CA-06747-4
ACKROYD, JOHN F.	AI-04499-3
ACUFF, CHARLES E.	OM-01737-1
ADAMIS, DIONYSIOS M.	HE-05698-4
ADAMKIEWICZ, VINCENT W.	AM-05684-3
ADAMS, COLIN W.M.	HE-06483-3
ADAMS, DONALD F.	AP-00023-2
ADAMS, DONALD F.	AP-00215-3
ADAMS, ELIJAH	GM-11105-3
ADAMS, EUGENE W.	AI-04025-4
ADAMS, EUGENE W.	CA-08187-1
ADAMS, FORREST H.	HD-00251-4
ADAMS, FREEMAN H.	OM-01827-2
ADAMS, HENRY E.	MH-10039-2
ADAMS, JAMES N.	GM-12008-2
ADAMS, JAMES R.	AC-00218-1
ADAMS, JOHN E.	NB-04838-2
ADAMS, JOHN M.	AI-00630-10
ADAMS, JOHN M.	CA-05816-3
ADAMS, RAYMOND D.	NB-00152-14
ADAMS, RAYMOND D.	NB-03190-5
ADAMS, RAYMOND D.	NB-03571-4
ADAMS, RAYMOND D.	NB-04515-3
ADAMS, REUBEN H.	HD-01176-4
ADAMS, ROBERT S.	OM-01256-2
ADAMS, RUSSELL S., Jr.	FS-00083-1
ADAMS, STUART N.	OM-00718-3
ADAMS, W. ROBERT	AI-06584-1
ADAMS, W. ROBERT	CA-02738-9
ADAMS, WILLIAM E.	CA-07581-2
ADAMS, WILLIAM E.	HE-01894-17
ADAMS, WILLIAM S.	CA-02433-11
ADAMS, WILLIAM T.	OM-01457-2
ADELBERG, EDWARD A.	AI-04377-4
ADELBERG, EDWARD A.	AI-05990-2
ADELMAN, WILLIAM J., Jr.	NB-04601-3
ADELMAN, WILLIAM J., Jr.	NB-06242-1
ADELSON, EDWARD	HE-02274-9
ADELSTEIN, S. JAMES	AM-04219-6
ADER, ROBERT	MH-03655-6
ADEY, WILLIAM R.	MH-03708-5
ADEY, WILLIAM R.	NB-01883-7
ADKINS, GALEN H.	NB-04531-3
ADKINS, GALEN H.	OM-02063-1
ADLER, FRANK L.	AI-01925-8
ADLER, HENRY E.	AI-01726-8
ADLER, JULIUS	AI-03603-5
ADLER, MARTIN W.	MH-05173-4
ADLER, SAUL	AI-05524-3
ADLER, TERRINE K.	NB-02508-6
ADLERSTEIN, ARTHUR M.	OM-02035-1
ADROUNY, GEORGE A.	AI-06582-1
ADROUNY, GEORGE A.	AM-06210-3
AFFSPRUNG, HAROLD E.	GM-08972-4
AGGELER, PAUL M.	HE-02754-9
AGHAJANIAN, GEORGE K.	MH-11109-1
AGIN, DANIEL P.	NB-05457-1
AGNELLO, JOSEPH G.	MH-11067-1
AGNEW, HARMAN W., Jr.	MH-11007-1
AGOSIN, MOISES	AI-01867-8
AGRANOFF, BERNARD W.	NB-03101-5
AGUILAR RICO, MARIANO	NB-04628-1
AHLQUIST, R.P.	FR-05365-4
AHLQUIST, R.P.	NB-04345-3
AHLQUIST, RAYMOND P.	HE-03514-8
AHREN, KURT E.B.	TW-00053-3
AHRENS, EDWARD H., Jr.	HE-05680-6
AHRENS, EDWARD H., Jr.	HE-06222-4
AIELLO, EDWARD L.	NB-02497-6
AINGER, LORIN E.	HE-05755-4
Airborne Instruments	Contr. CA-62-423
AIRD, ROBERT B.	NB-02023-6
Airlie Fdn.	Contr. HD-65-613
AIRTH, ROBERT L.	GM-05989-6
AISENBERG, ALAN CLIFFORD	CA-07179-2
AISO, KAZUYOSHI	EF-00510-2
AITKEN, THOMAS W.	WP-00638-2
AJL, SAMUEL J.	AI-03866-5
AJL, SAMUEL J.	FR-05505-3
AKAGI, JAMES M.	AI-04672-4
AKERS, WILLIAM W.	HE-09251-2
AKESON, WAYNE H.	AM-06363-5
AKESSON, NORMAN B.	EF-00281-4
AKESON, WAYNE H.	AM-08689-1
AKHTAR, M.	MH-11456-1
Alabama Dept. Pub. Health	Contr. MH-65-8
ALADJEM, FREDERICK	AI-03222-6
AL-ASKARI, SALAH	AI-06502-1
ALAUPOVIC, PETAR	GM-11195-3
ALAUPOVIC, PETAR	HE-06221-5
ALBAN, E.J., Jr.	CA-07372-3
ALBAUM, HARRY G.	CA-09617-6
ALBE-FESSARD, DENISE	NB-04795-2
ALBEN, JAMES O.	GM-11067-2
ALBERSHEIM, PETER	GM-12655-1
ALBERSHEIM, PETER	GM-12656-1
ALBERT, A.	AM-01738-8
ALBERT, HAROLD M.	HE-02573-8
ALBERT, ROY E.	OH-00110-4
ALBERT, ROY E.	RH-00298-1
ALBERT, SAMUEL S.	CA-02151-12
ALBERTY, ROBERT A.	GM-06688-6
ALBERTY, ROBERT A.	FR-00167-5
ALBIN, MAURICE S.	NB-04582-2
ALBO, VINCENT C.	CA-07439-2
ALBRECHT, ANDREAS C.	GM-10865-6
ALBRIGHT, EDWIN C.	AM-06605-3
ALBRINK, MARGARET J.	AM-09252-1
ALBRINK, MARGARET J.	HE-04714-5
ALDOUS, JOAN	MH-08762-1
ALDRIDGE, WILLIAM G.	CA-06907-3
ALEU, FERNANDO P.	HD-01414-1
ALEXANDER, ARCHIBALD F.	HE-08759-1
ALEXANDER, BENJAMIN	HE-00656-15
ALEXANDER, CARL S.	HE-04983-6
ALEXANDER, CLAUDE G.	HE-08882-2
ALEXANDER, E. RUSSELL	HE-09303-1
ALEXANDER, H.D.	AM-05670-3
ALEXANDER, HATTIE E.	AI-04413-4
ALEXANDER, HATTIE E.	GM-11790-2
ALEXANDER, IRVING E.	MH-10357-1
ALEXANDER, JAMES K.	GM-09578-4
ALEXANDER, JAMES K.	HE-03006-9
ALEXANDER, L.C.	FR-05348-4
ALEXANDER, LEROY E.	GM-12396-1
ALEXANDER, MARTIN	EF-00295-3
ALEXANDER, MARTIN	EF-00547-2
ALEXANDER, MARY L.	CA-07265-2
ALEXANDER, NATALIE	HE-05543-5
ALEXANDER, NICHOLAS M.	AM-03788-6
ALEXANIAN, RAYMOND	AM-09155-1
ALFRED, CAROLYN C.	HE-09086-1
ALFORD, BOBBY R.	NB-04099-3
ALICATA, JOSEPH E.	NB-04965-2
ALIVISATOS, S.G.A.	GM-10981-3
AL-KHALIDI, USAMA	AM-08389-2
ALKSNE, JOHN F.	NB-05647-1
ALLAM, MARK W.	FR-00112-2
ALLAM, MARK W.	FR-05464-3
ALLAN, DAVID	HE-08961-1
ALLARD, ROBERT W.	GM-10476-3
ALLEN, ARCHIE C.	GM-12222-2
ALLEN, ARTHUR	HE-05468-4
ALLEN, C. FREEMAN	AI-04788-3
ALLEN, CLIFFORD V.	CA-07419-2
ALLEN, DONALD M.	HE-10037-1
ALLEN, FRED H.	HE-08630-1
ALLEN, GEORGE S.H.	AM-08461-2
ALLEN, GEORGE W.	NB-02186-6
ALLEN, GEORGE W.	NB-05406-1
ALLEN, JAMES N.	CA-06466-4
ALLEN, JAMES R.	HE-08681-2
ALLEN, LANE H.	HE-09468-1
ALLEN, LELAND C.	GM-10242-3
ALLEN, MARSHALL B., Jr.	NB-04345-3
ALLEN, MARY B.	GM-09558-3
ALLEN, MERRILL J.	AC-00186-2
ALLEN, PETER Z.	AI-06534-1
ALLEN, RAYMOND A.	NB-02866-5
ALLEN, RAYMOND A.	NB-04228-3
ALLEN, RICHARD C.	OM-01038-3
ALLEN, RICHARD C.	OM-01947-1
ALLEN, RICHARD J.	CD-00106-1
ALLEN, ROBERT D.	GM-08691-4
ALLEN, ROBERT S.	HE-04969-6
ALLEN, SALLY L.	HD-01243-8
ALLEN, TERRANCE M.	AC-00030-2
ALLEN, WILLARD M.	AM-05179-5
ALLEY, FORREST C.	AP-00194-3
ALLINGER, NORMAN L.	AM-05836-4
ALLINGER, NORMAN L.	AM-06786-3
ALLISON, FRED, Jr.	HE-02792-10
ALLISON, JAMES	MH-11731-1
ALLISON, JAMES B.	AM-04341-5
ALLISON, JOEL	MH-10661-1
ALLISON, RAY	EF-00593-2
ALLISTON, CHARLES W.	GM-09285-3
ALLRED, DORALD M.	GM-12321-1
ALLRED, JOHN B.	AM-06673-3
ALMOND, CARL H.	HE-07816-3
ALMY, THOMAS P.	AM-06284-3
ALPERN, MATHEW	NB-01578-7
ALPERS, BERNARD J.	NB-02767-5
ALPERS, JOSEPH B.	AM-05877-4
ALPERT, MORTON	NB-02976-7
ALPERT, NORMAN R.	AM-06083-9
ALPERT, NORMAN R.	HE-02766-9
Alpha Research and Development	Contr. DE-64-502
ALSTON, RALPH E.	GM-11111-3
ALT, HOWARD L.	AM-05289-4
ALTEMEIER, WILLIAM A.	AI-06558-1
ALTEMUS, LEONARD A.	DE-00331-9

ALPHABETICAL LISTING OF INVESTIGATORS

ALTENBURG, EDGAR GM-12188-2
ALTENBURG, EDGAR GM-12610-1
ALTMAN, AARON CA-07140-3
ALTMAN, KURT I. CA-06698-3
ALTMAN, PHILIP L. GM-06553-6
ALTMANN, FRANZ NB-03376-4
ALTROCCHI, JOHN MH-11215-1
ALTSCHULER, HENRY AM-07492-4
ALTSHULER, BERNARD OH-00057-6
ALTSHULER, CHARLES H. AM-01897-7
ALTSZULER, NORMAN AM-00113-14
ALVARADO, RONALD H. GM-11817-2
ALVIZOURI, MARIO AM-06429-3
ALVORD, ELLSWORTH C., Jr. NB-03147-5
ALZAMORA, FERNANDO TW-00055-2
AMADUCCI, LUIGI A. NB-03890-3
AMANN, RUPERT P. HD-01356-1
AMARAL, DEA TW-00066-2
AMASSIAN, VAHE E. NB-01603-8
AMBERSON, WILLIAM R. AM-02492-7
AMBROSE, JOHN A. HD-00363-2
AMBRUS, CLARA M. CA-05136-5
AMBRUS, CLARA M. CA-07800-2
AMBRUS, JULIAN L. CA-02977-9
AMBRUS, JULIAN L. HE-04418-6
AMDUR, MARY O. AP-00084-10
AMENTA, JOSEPH S. AM-09147-1
American Assn. on Mental Def. Contr. MH-63-1135
American Dental Assn. Contr. DE-64-924
American Nat'l Red Cross Contr. CA-64-102
American Psychiatric Assn. Contr. MH-65-74
American Psychiatric Assn. Contr. MH-65-84
American Psychiatric Assn. Contr. MH-65-598
American Pub. Hlth. Assn. Contr. HD-65-1016
American Social Hlth. Assn. Contr. MH-63-609
American Society for Pharm. Contr. MH-65-54
American Univ. Contr. DRG-63-84
AMES, ADELBERT, III MH-06209-3
AMINOFF, DAVID AM-07305-3
AMIRAIAN, KENNETH AI-05191-3
AMLER, MELVIN H. AM-07346-3
AMMA, ELMER L. GM-08344-4
AMMONS, ROBERT B. HD-00939-3
AMORIM, DALMO S. HE-08188-3
AMOROSO, EMMANUEL C. HD-01476-6
AMOS, D. BERNARD CA-07371-3
AMOS, DENNIS B. GM-10356-3
AMOS, HAROLD AI-00957-10
ANAST, CONSTANTINE S. AM-01351-8
ANAST, CONSTANTINE S. AM-06299-3
ANASTASI, ANNE MH-10233-1
ANASTOS, GEORGE AI-04334-4
ANCHEL, MARJORIE AI-00226-14
ANDER, PAUL GM-11158-3
ANDEREGG, DOYLE E. GM-07693-3
ANDEREGG, JOHN W. GM-10692-3
ANDERSEN, BURTON R. AM-08849-1
ANDERSEN, KENNETH K. GM-10244-3
ANDERSEN, KENNETH K. GM-10800-3
ANDERSEN, MURRAY N. HE-09268-1
ANDERSEN, NIKAAN B. GM-13029-1
ANDERSEN, NIKAAN B. HE-07467-2
ANDERSEN, PER NB-04764-2
ANDERSEN, THORKILD W. HE-07129-4
ANDERSON, A.W. EF-00123-6
ANDERSON, AUGUSTUS E., Jr. HE-04088-6
ANDERSON, AGUSTUS E., Jr. HE-06065-3
ANDERSON, ALVIN G. WP-00796-1
ANDERSON, BARRY F. MH-10218-1
ANDERSON, BRUCE M. AM-08812-1
ANDERSON, CARL E. AM-08897-1
ANDERSON, COLIN A. OM-01689-2
ANDERSON, D. CHRIS MH-10876-1
ANDERSON, D. CHRIS MH-11016-1
ANDERSON, DAVID E. CA-02890-8
ANDERSON, DAVID G. GM-12229-2
ANDERSON, DECLAN J. DE-01037-4
ANDERSON, DWIGHT L. AI-05813-2
ANDERSON, DWIGHT L. GM-12412-2
ANDERSON, EDMUND G. NB-05611-1
ANDERSON, EVERETT GM-08776-4
ANDERSON, FRANK D. NB-01324-9
ANDERSON, FRANK D. NB-02916-5
ANDERSON, GAYLORD W. FR-05448-4
ANDERSON, IRVIN C. GM-09063-4
ANDERSON, JOHN A. NB-02358-8
ANDERSON, JOHN A. NB-04831-2
ANDERSON, JOHN R. AI-04918-2
ANDERSON, JOHN R. EF-00515-2
ANDERSON, JOHN S. OM-00421-6
ANDERSON, KIRK J. AM-05817-4
ANDERSON, LAUREN D. AI-04107-5
ANDERSON, LAURENS CA-06038-3
ANDERSON, LEWIS D. AM-07551-5
ANDERSON, MARION C. AM-02188-7
ANDERSON, MARION C. AM-08055-1
ANDERSON, MILTON H. OM-01967-1
ANDERSON, ODIN W. OH-00115-1
ANDERSON, ODIN W. OH-00034-2
ANDERSON, ODIN W. HM-00298-1
ANDERSON, PAUL J. NB-03236-4
ANDERSON, PAUL J. NB-05041-2
ANDERSON, PHILIP C. AM-07729-2
ANDERSON, RICHARD C. HE-09677-1
ANDERSON, RICHARD L. AI-04890-3
ANDERSON, ROBERT K. AI-06033-2
ANDERSON, ROY S. RH-00008-4
ANDERSON, RUTH S. AM-07856-2
ANDERSON, THOMAS F. GM-08773-3
ANDERSON, V. ELVING HD-01396-1
ANDERSON, W.A.D. CA-06045-4
ANDERSSON, SVEN O. TW-00173-1
ANDO, KOJI CA-05089-4
ANDRADE, CORINO AM-05728-3
ANDRADE, ZILTON A. AI-06209-1
ANDRAKO, JOHN GM-05895-7
ANDRES, FRANCIS D. MH-10420-1
ANDRES, GIUSEPPE A. AI-04527-3
ANDREW, GWEN OM-01460-2
ANDREW, RICHARD J. MH-05137-4
ANDREW, WARREN HD-01179-3
ANDREWS, ARTHUR C. AI-01354-10
ANDREWS, EDWARD C., Jr. AI-02334-6
ANDREWS, JOHN F. WP-00622-2
ANDREWS, JOHN S. NB-05426-1
ANDRIOLE, VINCENT T. AI-06308-1
ANDY, ORLANDO J. MH-07290-10
ANDY, ORLANDO J. NB-04510-2
ANDY, ORLANDO J. NB-04754-2
ANGELAKOS, E. T. HE-06134-3
ANGELAKOS, EVANGELOS T. HE-08985-2
ANGELAKOS, EVANGELOS T. HE-09616-1
ANGELICI, ROBERT J. GM-12626-1
ANGELONE, LUIS DE-02025-2
ANGEVINE, D. MURRAY GM-09387-4
ANGEVINE, JAY B., Jr. NB-02853-5
ANGLEMIER, ALLEN F. EF-00429-3
ANGLIN, J.H., Jr. AM-09161-1
ANGRIST, ALFRED HE-02190-10
ANGYAL, STEPHEN J. HE-06195-3
ANIDO, VICENTE GM-12884-1
ANIGSTEIN, LUDWIK CA-08013-1
ANKENEY, JAY L. HE-08679-2
ANKER, HERBERT S. HE-01614-18
ANLYAN, WILLIAM G. FR-05405-4
ANLYAN, WILLIAM G. HE-08929-2
ANNEGERS, JOHN H. AM-04916-5
ANSELL, JULIAN S. AM-07755-2
ANSFIELD, FRED J. CA-04594-6
ANSFIELD, FRED J. CA-06749-3
ANSON, BARRY J. NB-03855-3
ANSTREICHER, KURT OM-02113-1
ANTHONY, ADAM GM-05112-7
ANTHONY, ADAM GM-07678-5
ANTHONY MARIE, SISTER FR-05502-3
ANTON, AARON H. HE-05251-5
ANTONIADES, HARRY N. AM-08381-7
ANTONITIS, JOSEPH J. MH-07170-2
ANTONOVYCH, TATIANA T. AM-05058-4
ANTOPOL, WILLIAM AM-08850-1
ANTOPOL, WILLIAM FR-05492-3
ANTOPOL, WILLIAM HE-02670-9
APOSHIAN, H. VASKEN CA-04788-3
APPLEMAN, MILO D. AI-01994-7
APPLEQUIST, JON B. GM-10882-5
APRISON, M.H. MH-03225-6
ARAKAWA, KIKUO HE-09424-1
ARAKAWA, TSUNEO HD-01505-1
ARANA-INIGUEZ, ROMAN HE-07589-3
ARANA-INIGUEZ, ROMAN NB-02106-4
ARANT, FRANK S. EF-00002-12
ARATA, DOROTHY AM-06093-4
ARAVANIS, CHRIST HF-06090-4
ARBESMAN, CARL E. AI-01303-9
ARCH, ARNOLD AP-00339-2
ARCHER, FRANCIS L. CA-06981-3
ARCHER, GORDON T. TW-00070-3
ARCHIBALD, REGINALD M. AM-02772-6
ARCHIBALD, REGINALD M. AM-03347-6
ARCHIBALD, REGINALD M. AM-08216-2
ARCHIBALD, REGINALD M. HE-07473-1
ARCOS, JOSEPH C. CA-05431-6
AREAN, VICTOR M. AI-03212-6
ARENDT, KENNETH A. HE-09453-1
ARENSBERG, CONRAD MH-06842-3
ARENSBERG, CONRAD M. MH-06227-4
ARGERSINGER, WILLIAM J., Jr. FR-00191-1
ARGOUDELIS, CHRISTOS J. AM-00257-13
ARGUS, MARY F. CA-05793-5
ARGYRIS, BERTIE F. AM-06448-3
ARGYRIS, CHRIS MH-09128-7
ARIAS, IRWIN M. AM-02019-8
ARIAS-STELLA, JAVIER HE-07000-5
ARIENS, E.J. MH-11055-1
ARIMA, KEI AI-06321-1
ARING, CHARLES D. HE-07003-4
ARKIN, ARTHUR M. MH-04473-3
ARMALY, MANSOUR F. CD-00017-7
ARMALY, MANSOUR F. NB-01689-8
ARMALY, MANSOUR F. NB-03636-3
ARMITAGE, KENNETH B. GM-11495-2
ARMSTRONG, DAVID T. AM-07186-2
ARMSTRONG, FRANK B. GM-10166-3
ARMSTRONG, MARK L. HE-08408-2
ARMSTRONG, MARK L. HE-08417-2
ARMSTRONG, MARVIN D. HD-01202-6
ARMSTRONG, MARVIN D. MH-02278-8
ARMSTRONG, PHILIP B. HD-00936-4
ARMSTRONG, PHILIP B. RH-00076-6
ARMSTRONG, WALLACE D. AM-00592-18
ARMSTRONG, WALLACE D. DE-01850-2
ARMSTRONG, WILLIAM M. GM-10971-3
ARNASON, BARRY G. NB-06021-1
ARNETT, EDWARD M. GM-10872-6
ARNOLD, ALLAN W. GM-12451-1
ARNOLD, EUGENE A., Jr. CA-08306-1
ARNOLD, JAMES S. AM-09379-1
ARNOLD, JAMES S. AM-09380-1
ARNOLD, JAMES S. DE-02256-1
ARNOLD, JOHN G., Jr. GM-07686-5
ARNOLD, WILLIAM J. MH-08503-2
ARNOLD, WILLIAM R. MH-11033-1
ARNON, DANIEL I. GM-04314-11
ARNRICH, LOTTE AM-07713-1
ARONFREED, JUSTIN MH-06671-3
ARONOW, LEWIS CA-05672-4
ARONOW, SAUL GM-10746-2
ARONS, WALTER L. AM-03677-4
ARONSON, ARTHUR I. GM-08001-5
ARONSON, ARTHUR L. HE-10054-1
ARONSON, HARRIET J. MH-07434-3
ARONSON, LESTER R. HD-00348-4
ARONSON, MOSHE AI-04991-3
ARONSON, SAMUEL B. NB-04310-3
ARONSTAM, ROBERT H. HE-07250-3
ARQUILLA, EDWARD R. AM-06001-4
ARRINGTON, L.R. AM-08760-1
ARROYAVE, GUILLERMO AM-04731-5
ARSENEAU, FLAVIN J. GM-05863-7
ARTOM, CAMILLO AM-00754-11
ARTZ, CURTIS P. AM-08673-2
ARUGA, HISAO AI-03967-5
ARVANITAKI-CHALAZONITIS, ANGELI NB-03337-4
ASANO, TOMOAKI AM-09293-1
ASCARI, MANOOCHEHR TW-00170-1
ASCOLI, WERNER HD-00492-7
ASDELL, SYDNEY A HD-01187-3
ASDOURIAN, DAVID MH-06130-3
ASENSIO, CARLOS TW-00132-1
ASERINSKY, EUGENE MH-07568-3
ASGAR, KAMAL DE-02017-2
ASH, MAJOR M. DE-01962-2
ASH, MAJOR M. DE-02318-1
ASHE, WILLIAM F. EF-00036-4
ASHE, WILLIAM F. OH-00006-7
ASHLEY, CHARLES A. CA-03711-6
ASHLEY, CHARLES A. CA-07261-2
ASHMORE, JAMES AM-04790-5
ASHMORE, JAMES AM-07211-2
ASHTON, ERIC H. HD-00450-3
ASHTON, FLOYD M. GM-11736-2
ASHTON, GEOFFREY C. HD-01831-1
ASHWORTH, CHARLES T. HE-08676-2
ASKARI, AMIR AM-07447-3
ASLING, C. WILLET AM-00664-11
ASMUNDSON, V.S. NB-01644-8

ASSALI, NICHOLAS S. HE-01755-12
ASTON, ROY MH-10931-1
ASTRACHAN, LAZARUS AI-04884-3
ASTRUC, JUAN TW-00135-1
ASTRUP, TAGE HE-05020-5
ASTWOOD, EDWIN B. AM-00612-13
ASTWOOD, EDWIN B. FR-00054-4
ATASSI, M. ZOUHAIR AM-08804-1
ATCHLEY, WILLIAM A. CA-05060-6
ATIK, MOHAMMAD HE-09431-1
ATKINS, ELISHA AI-01564-8
ATKINS, LEONARD NB-04662-2
ATKINSON, DANIEL E. AI-01456-9
ATKINSON, GORDON GM-09232-3
ATKINSON, RICHARD C. HD-00918-4
ATTAR, SAFUH HE-09341-1
ATTARDI, GIUSEPPE GM-11726-2
ATTINGER, ERNST O. HE-06836-4
ATTINGER, ERNST O. HE-09694-1
AUB, JOSEPH C. CA-02867-9
AUBERT, VILHELM MH-04547-5
AUCHINCLOSS, J. HOWLAND, Jr. HE-02800-9
AUCLAIR, W. CA-06439-3
AUDITORE, JOSEPH V. GM-08508-4
AUDITORE, JOSEPH V. NB-03520-4
AUDY, J. RALPH AI-03793-5
AUDY, J. RALPH GM-11993-2
AUDY, J. RALPH TW-00144-5
AUERBACH, ARTHUR H. MH-08686-2
AUERBACH, ROBERT CA-05281-5
AUERBACH, VICTOR H. AM-06469-3
AUERSWALD, WILHELM HE-07085-3
AUGENSTEIN, LEROY G. CA-06634-3
AUGENSTEIN, LEROY G. GM-10890-2
AUGUST, JOSEPH T. GM-11936-2
AUGUSTIN, ROSA AI-03961-4
AUGUSTINE, ROBERT L. GM-09696-3
AUGUSTINE, ROBERT L. MH-10107-1
AUKLAND, KNUT TW-00121-2
AULD, PETER A.M. HE-09410-1
AULSEBROOK, KENNETH A. AM-05025-4
AURAND, LEONARD W. EF-00366-3
AUSMAN, ROBERT K. FR-05562-3
AUSTEN, K. FRANK AI-04536-4
AUSTEN, K. FRANK HE-08099-1
AUSTEN, W. GERALD HE-08071-3
AUSTEN, WILLIAM G. HE-08043-2
AUSTIN, COLIN R. GM-13226-1
AUSTIN, FLORENCE C. NU-00021-5
AUSTIN, GEORGE NB-01687-7
AUSTIN, JAMES H. NB-03255-5
AUSTIN, LOUIS G. AI-05530-2
AUSTIN, MARY L. CA-05398-4
AUSTRIAN, ROBERT AI-05100-3
AUTIAN, JOHN CA-06120-4
AUTREY, ROBERT L. MH-08439-2
AVERS, CHARLOTTE J. AI-04916-3
AVERY, JAMES K. DE-01604-4
AVERY, JAMES K. DE-01620-4
AVERY, MARY E. HD-00281-5
AVIADO, DOMINGO M. HE-09532-1
AVNET, HELEN H. OH-00033-1
AXELROD, ABE E. AM-00727-11
AXELROD, LEONARD R. AM-03270-6
AXTELL, RICHARD C. FF-00454-2
AYEN, RICHARD J. AP-00387-1
AYERS, JOHN C. WP-00311-2
AYRES, JOHN C. FF-00113-11
AYRES, STEPHEN M. HF-08074-3
AYVAZIAN, JOHN H. AI-02757-7
AWAPARA, JORGE MH-07023-3
AXELROD, S.J. CH-00004-3
AXELROD, S.J. CH-00034-3
AZAR, HENRY A. AM-05418-4
AZARI, PARVIZ GM-12029-2
AZARNOFF, DANIEL L. HE-07601-4
AZRIN, NATHAN H. MH-04925-4
AZRIN, NATHAN H. MH-04926-4
BABB, HAROLD MH-11183-1
BABEL, FREDERICK J. EF-00756-1
BACCHUS, HABEEB AM-07796-2
BACH, L. MATTHEW NB-02666-5
BACH, L. MATHEW N. HD-00224-4
BACHMAN, CHARLES H. AP-00305-2
BACHMAN, LEONARD HD-00201-7
BACHMANN, FEDOR W. AM-09047-1
BACHRACH, ARTHUR J. NB-05174-1
BACHRACH, URIEL CA-06867-3
BACH-Y-RITA, PAUL NR-04671-2
BACILA, METRY AI-06074-2
BACILA, METRY GM-11912-2
BACK, KURT W. MH-05356-3
BACK, NATHAN CA-04487-6
BACK, NATHAN HE-03784-7
BACK, NATHAN HE-08633-2
BACKLAR, SAMUEL S. OM-01026-3
BACKRASS, ERWIN OM-01703-2
BACON, SELDEN D. MH-05655-4
BACON, WILLIAM HM-00397-1
BADEN, HOWARD P. AM-06838-3
BADGER, GEOFFREY M. CA-06419-3
BADGER, GEORGE F. GM-12302-1
BADIA, PIETRO MH-08960-1
BAEKELAND, FREDERICK MH-10088-1
BAER, DEE GM-11605-2
BAER, DONALD M. MH-11768-1
BAER, ERICH HE-08780-1
BAER, MELVYN J. DE-00221-3
BAER, MELVYN J. HD-01845-1
BAER, RUDOLF L. AM-07137-5
BAERNSTEIN, HARRY D., Jr. AI-05725-2
BAERTL, JUAN M. AM-09137-1
BAETJER, ANNA M. OH-00005-10
BAETTIG, KARL MH-06161-3
BAEZ, SILVIO HF-06736-5
BAGATELL, FILLMORE K. AM-05808-4
BAGGENSTOSS, ARCHIE H. GM-09623-4
BAGGETT, BILLY AM-01718-7
BAGSHAW, MALCOLM A. CA-04542-7
BAHMANYAR, MAHMOOD TW-00047-1
BAHN, ROBERT C. AM-02692-7
BAHNER, CARL T. CA-03717-8
BAHNSON, HENRY T. HE-08970-1
BAHRICK, HARRY P. HD-00926-4
BAICH, ANNETTE CA-02295-12
BAILEY, CHARLES P. HE-08719-2
BAILEY, HAROLD S. DE-01050-6
BAILEY, HERBERT R. HF-08223-2
BAILEY, J. MARTYN HE-05062-6
BAILEY, PAUL C. CA-08253-1
BAILEY, RICHARD E. AM-06607-3
BAILEY, ROBERT W. AM-02406-7
BAILEY, W. ROBERT A. AI-04298-3
BAILEY, WILFRID C. FF-00584-2
BAILEY, WILLIAM J. CA-04514-5
BAIN, MARY D. OM-01072-2
BAIR, HOWARD V. OM-01731-2
BAIRD, D.W.F. FR-00163-6
BAIRD, D.W.E. FR-05412-4
BAIRD, DAVID W.E. HF-06336-5
BAIRD, IRWIN L. NB-04993-2
BAISTED, DEREK J. AM-09245-1
BAKAY, LOUIS NB-03754-4
BAKEMEIER, RICHARD F. AI-04841-3
BAKER, A.B. NB-03364-4
BAKER, A.B. NB-03643-3
BAKER, BENJAMIN M. HF-07380-3
BAKER, BERNARD R. CA-05845-4
BAKER, BERNARD R. CA-05867-4
BAKER, BERNARD R. CA-06624-3
BAKER, BURTON L. AM-00131-13
BAKER, CLINTON L. GM-07209-5
BAKER, DURWOOD L. FR-05565-2
BAKER, JOHN B. NB-02339-6
BAKER, NOME AM-04705-5
BAKER, R. DAVID AM-05778-4
BAKER, RICHARD F. HF-07976-3
BAKER, ROBERT C. FF-00570-2
BAKER, ROGER D. AI-04546-4
BAKER, ROBERT N. NB-03385-4
BAKER, ROY E. HM-00326-1
BAKER, W.A., Jr. AI-05409-3
BAKER, WALTER W. MH-08833-2
BAKER, WILLIAM K. GM-07428-5
BAKERMAN, SEYMOUR HE-08445-2
BAKKE, JOHN L. AM-05638-5
BALAGURA, SULAMITA AM-08270-1
BALAZS, ENDREA A. FR-05527-3
BALAZS, ENDRE A. NB-03370-4
BALBER, GEORGE DE-01836-3
BALCERZAK, STANLEY P. AM-07260-3
BALCHUM, OSCAR J. AP-00207-3
BALCHUM, OSCAR J. AP-00298-2
BALDESCHWIELER, JOHN D. GM-10993-9
BALDESCHWIELER, JOHN D. GM-13545-1
BALDRIDGE, ROBERT C. AM-00650-11
BALDWIN, ALFRED L. MH-11039-1
BALDWIN, BERNELL E. HF-09482-1
BALDWIN, JACK N. AI-06136-1
BALDWIN, RANSOM L. AM-07672-1
BALDWIN, ROBERT L. AM-04763-5
BALDWIN, WILLIAM R. NB-06035-1
BALIN, HOWARD HD-00826-2
BALINT, JOHN A. AM-07563-3
BALINT, JOHN A. HE-08997-2
BALINT, JOHN A. NB-05124-2
BALINTFY, JOSEPH L. HM-00216-3
BALL, ERIC G. AM-03132-7
BALL, ERNEST A. AI-05296-3
BALL, GORDON H. AI-00087-15
BALL, ROBERT C. WP-00349-3
BALLARD, RALPH C. HE-06289-4
BALLENGER, JOHN J. AP-00321-6
BALLINGER, WALTER F., II AM-09174-1
BALLOU, CLINTON E. AM-00884-10
BALLOUN, S.L. HE-08307-2
BALLS, ARNOLD K. GM-08895-4
BALOGH, KAROLY NB-04155-3
BALSER, BENJAMIN H. OM-01625-1
Baltimore Biological Lab. Contr. AI-62-839
Baltimore Biological Lab. Contr. CA-63-1161
Baltimore City Public Schools Contr. MH-65-1049
BALUDA, MARCEL A. CA-03880-8
BALZER, MRS. FRANC OM-01444-2
BAMFORD, SOPHIA B. GM-10755-2
BAMFORD, SOPHIA B. HD-01566-1
BAN, YOSHIO MH-08187-2
BAND, RUDOLPH N. AI-06117-3
BANDURA, ALBERT MH-05162-4
BANDURSKI, ROBERT S. AM-05916-4
BANDY, ORVILLE L. WP-00158-6
BANG, FREDERICK B. CA-01230-15
BANG, FREDERIK B. TW-00141-5
BANHIDI, ZOLTAN F. AM-09127-4
BANK, DENA C. OM-00837-4
BANK, NORMAN HE-05770-5
BANKOWSKI, RAYMOND A. AI-00445-13
BANKOWSKI, RAYMOND A. AI-04661-4
Bank St. Col. of Education Contr. HD-65-996
BANNER, ALBERT H. FF-00216-4
BANNER, ALBERT H. FF-00260-3
BANNETT, AARON D. HE-09321-1
BANOVITZ, JAY AI-05840-2
BANSE, KARL GM-10817-3
BANSE, KARL WP-00633-2
BANTA, THOMAS J. MH-08658-2
BARALT, A.R., Jr. FR-05320-4
BARAM, PETER AI-03309-5
BARANSKI, ALEXANDER H. OM-01691-1
BARANY, ERNST H. NB-03060-5
BARANY, ERNST H. NB-03637-3
BARANY, MICHAEL AM-04873-5
BARBATO, IRIS NB-05592-1
BARBER, AELETA N. AM-08996-1
BARBER, AELETA N. NB-03841-3
BARBER, G. WINSTON NB-03446-4
BARBER, THEODORE X. MH-07003-2
BARBER, SAUL B. NB-05953-1
BARBER, THOMAS K. DE-01038-6
BARBERO, GIULIO J. AM-03761-6
BARBERO, GIULIO J. AM-05979-4
BARBOSA, F.S. AI-06271-1
BARBOSA, FREDERICO S. AI-04607-4
BARBOUR, BENJAMIN H. HF-08110-3
BARD, GREGORY NB-05649-1
BARDACH, JOHN E. NB-04687-3
BARDAWIL, WADI A. AM-02168-6
BARDAWIL, WADI A. NB-01962-7
BARDOS, THOMAS J. CA-05522-4
BARDOS, THOMAS J. CA-06695-3
BARDUHN, ALLEN J. WP-00729-1
BARE, JOHN K. HD-00900-6
BARE, JOHN K. MH-04985-5
BARETA, JOHN CA-03825-7
BARGER, A. CLIFFORD HE-02493-8
BARGER, BENJAMIN OM-00380-6
BARGERON, LIONEL M. Jr. HF-02602-8
BARIBO, LESTER EF-00444-2
BARKER, EARL S. HF-00405-16
BARKER, HAROLD G. GM-02926-15
BARKER, HORACE A. AI-00563-18
BARKER, HORACE A. AM-08845-1
BARKER, JUNE N. HD-01480-1
BARKER, ROBERT GM-11963-2
BARKER, SAMUEL B. AM-06911-3
BARKER, WILEY F. HE-07943-3
BARKSDALE, ALMA W. HD-00850-8
BARKSDALE, LANE AI-01071-9
BARLAND, PETER AM-09284-1
BARLOW, CHARLES F. NB-05172-2
BARLOW, HORACE B. NB-05215-2
BARLOW, JAMES L. AI-04975-3

ALPHABETICAL LISTING OF INVESTIGATORS

BARLOW, JOHN P. WP-00176-7
BARLOW, JOHN S. NB-03752-4
BARLOW, JOSEPH J. AM-06654-3
BARNARD, ERIC A. GM-11754-2
BARNES, ALLAN C. HD-00523-5
BARNES, CHARLES D. NB-05949-1
BARNES, FREDERICK W., Jr. CA-07189-3
BARNES, GEORGE L. EF-00308-1
BARNES, RICHARD H. AM-03620-5
BARNES, ROBERT H. HE-04395-5
BARNESS, LEWIS A. AM-02231-7
BARNET, ANN B. HD-01045-1
BARNETT, EUGENE V. AM-08153-2
BARNETT, G. OCTO FR-00263-1
BARNETT, G. OCTO HE-08666-2
BARNETT, HERBERT C. AI-05589-3
BARNETT, HORACE L. AI-04618-4
BARNETT, LEWIS B. GM-11672-2
BARNETT, WILLIAM O. AM-04644-5
BARNHARD, HOWARD J. AM-04512-5
BARNHART, MARION I. HE-03447-8
BARNHART, MARION I. HE-04712-6
BARNOWE, THEODORE J. ES-00020-2
BARNUM, CYRUS P., Jr. CA-01747-13
BARON, ALAN MH-08430-2
BARONE, JOHN A. CA-04848-5
BARONE, PAUL L. OM-01768-2
BARONOFSKY, IVAN D. AM-04611-5
BARR, CHARLES E. AM-09426-1
BARR, H. JAY GM-12047-1
BARR, LLOYD AM-03819-6
BARRACLOUGH, C.A. HD-01514-1
BARRACLOUGH, CHARLES A. NB-04199-3
BARRETT, BEATRICE H. OM-01354-2
BARRETT, EARL W. AP-00401-1
BARRETT, JAMES M. CA-03890-6
BARRETT, JAMES T. AM-04117-4
BARRETT, MURRAY J. DE-02034-2
BARRETT, RICHARD J. AM-07435-3
BARRETT, ROBERT E. GM-09431-4
BARRNETT, RUSSELL J. AM-03688-5
BARRON, AIMEN L. AI-04372-3
BARRON, DONALD H. GM-08080-5
BARRON, DONALD H. HD-00262-17
BARRON, EDWARD J. AM-07806-2
BARRON, EDWARD J. AM-08966-1
BARRON, KEVIN D. NB-04722-3
BARROW, J. GORDON HE-03262-8
BARROWS, HOWARD S. NB-04466-2
BARRY, GUY T. AI-02327-6
BARRY, HERBERT, III MH-07824-2
BARRY, VINCENT C. AI-02842-6
BARRY, WILLIAM E. AM-07844-2
BAR-SELA, MILDRED E. NB-04645-3
BARTH, LESTER G. HD-00701-2
BARTHOLOMAY, ANTHONY F. GM-10002-3
BARTHOLOMEW, GEORGE A MH-11430-1
BARTHOLOMEW, LEE E. AI-06729-1
BARTLETT, BLAIR R. ES-00089-1
BARTLETT, GRANT R. HE-06950-4
BARTLETT, PAUL D. AM-06983-3
BARTLETT, PAUL D. GM-05981-7
BARTLEY, S. HOWARD NB-05260-2
BARTNICKI-GARCIA, SALOMON AI-05540-3
BARTNICKI-GARCIA, SALOMON AI-06205-2
BARTO, ELIZABETH NB-03095-5
BARTON, PAUL DE-01230-5
BARTON, THEODORE C. HD-01515-1
BARTON, WALTER E. MH-09219-1
BARTON, WALTER E. MH-09221-1
BARTORELLI, CESARE HE-06393-4
BARTOSHUK, ALEXANDER K. NB-04001-3
BARTSCHT, KARL G. HM-00406-1
BARTZ, ALBERT E. AC-00165-2
BASCOM, WILLIAM R. MH-10563-1
BASERGA, RENATO CA-05667-4
BASFORD, ROBERT E. NB-01984-7
BASHORE, RICHARD A. HD-00474-8
BASHOUR, FOUAD A. HE-07739-3
BASILIO, CARLOS M. HD-00734-1
BASKIN, RONALD J. GM-12933-1
BASLER, EDDIE GM-05976-7
BASOLO, FRED GM-07488-3
BASS, ALLAN D. AM-05474-4
BASS, ALLAN D. MH-11468-1
BASSETT, C. ANDREW L. AM-07822-2
BASSETT, DAVID R. HE-07543-3
BASSETT, DAVID R. HE-08674-2
BASSETT, FRANK H., III NB-05580-1
BASSETT, JOHN W. NB-03802-3
BASSETTE, RICHARD ES-00021-2
BASSINGTHWAIGHTE, J.B. HE-09719-1
BATEMAN, DURWARD F. AI-04930-3
BATES, MARGARET W. AM-02564-7
BATES, ROBERT B. GM-11721-2
BATES, ROBERT R. GM-12447-1
BATLEY, FRANK CA-07186-1
BATSON, RANDOLPH FR-05424-4
BATT, C. WILLIAM, BROTHER HF-09055-1
Battelle Memorial Contr. CA-62-488
Battelle Memorial Contr. CA-62-495
BATTERSBY, WILLIAM S NB-05395-1
BATTIG, WILLIAM F. HD-01062-2
BATTIGELLI, MARIE C. OH-00191-2
BATTILANA, GUIDO HE-06740-4
BATTINO, RUBIN GM-12071-1
BATTISTO, JACK R. AI-04131-5
BATTLE, JOHN D., Jr. CA-04919-6
BAUCH, HAROLD GM-05921-7
BAUE, ARTHUR E. AM-08788-1
BAUE, ARTHUR E. HE-09396-1
BAUER, DIETRICH C. AI-05740-2
BAUER, GORAN C.H. FR-05495-3
BAUER, JERE M. CA-01719-13
BAUER, LUDWIG CA-04661-6
BAUER, RALSTON S. OM-01436-3
BAUER, ROGER D. AM-05169-5
BAUGHMAN, E. EARL MH-04944-4
BAUL, D. NATHAN I GM-12297-1
BAUM, GILBERT CA-06864-3
BAUM, GILBERT GM-12460-1
BAUM, WALTER R. GM-11932-2
BAUMAN, JOHN W., Jr. AM-08942-1
BAUMAN, ROBERT P. GM-10286-3
BAUMBERGER, J. PERCY HE-07100-4
BAUMEISTER, ALFRED A. MH-08913-2
BAUMEL, JULIAN J. GM-10152-3
BAUMGARDT, B.R. AM-07652-2
BAUMILLER, ROBERT C GM-12651-1
BAUTZ, EKKEHARD K.F. GM-10395-3
BAVETTA, LUCIEN DE-01177-6
BAVETTA, LUCIEN A. DE-00626-8
BAVETTA, LUCIEN A. DE-01021-5
BAWDEN, JAMES W. DE-01824-3
BAXTER, CHARLES R. HE-08771-2
BAXTER, CLAUDE F. NB-03743-4
BAY, ALFRED P. OM-01730-2
BAYLES, THEODORE B. AM-05577-4
BAYLESS, WILLIAM A. GM-07397-3
BAYLEY, ROBERT H. HE-01499-9
BAYLOR, MARTHA BARNES AI-05807-2
Baylor Univ. Contr. AI-62-127
Baylor Univ. Contr. CA-63-590
Baylor Univ. Contr. DBS-65-1046
BAZIAK, ANNA T. NU-00025-4
BEACH, FRANK A. MH-04000-6
BEACH, LEE R. MH-11496-1
BEACH, LESLIE R. MH-10660-1
BEAK, PETER GM-10696-2
BEAL, JACK L. CA-06028-4
BEAL, JACK L. GM-05640-7
BEAL, JACK L. HE-03673-6
BEAL, JACK L. HE-07502-3
BEAL, JOHN M. AM-08565-2
BEALE, HELEN P. AI-05356-2
BEALL, ARTHUR C., Jr. HE-08644-2
BEALS, ALAN R. MH-10592-1
BEAM, CARL A. RH-00312-2
BEAMER, ROBERT L. GM-12109-2
BEAMES, CALVIN G., Jr. AI-06047-2
BEAMS, H. W. GM-04706-9
BEAMS, H.W. GM-05479-8
BEAMS, JESSE W. GM-10522-3
BEAMS, JESSE W. GM-11630-6
BEAN, JOHN W. HE-01646-15
BEAN, WILLIAM B. AM-01408-9
BEARD, ALICE G. HD-00387-6
BEARD, BELLE B. OM-02236-1
BEARD, JOSEPH W. CA-04572-7
BEARD, MARION F. CA-07784-1
BEARDSLEY, ROBERT E. CA-06956-3
BEARMAN, JACOB F HE-05695-5
BEARN, ALEXANDER G. AM-01542-9
BEATTIE, EDWARD J., Jr. CA-06246-4
BEATTY, CLARISSA H. AM-05622-4
BEATTY, EUGENE C., Jr. CA-04179-7
BEAUDET, ROBERT A. GM-11979-2
BEAUDOIN, ALLAN R. HD-00400-5
BEAUDREAU, GEORGE S. CA-06999-2
BEAVER, DAVID L. AI-04039-5
BEAVER, PAUL C. AI-04919-3
BECHTOL, CHARLES O. HD-00489-6
BECK, ANN F. GM-11350-2
BECK, BERTRAM M. OM-00426-5
BECK, CLAUDE S. HE-02300-10
BECK, DOROTHY F. OM-00602-3
BECK, ELISABETH C. AI-04098-4
BECK, HEINZ O. DE-01352-5
BECK, JOHN C. HD-00511-6
BECK, LLOYD HE-07511-3
BECK, LLOYD H. MH-08237-2
BECK, LYLE V. AM-05980-5
BECK, LYLE V. AM-05981-4
BECK, RAYMOND W. AI-05406-2
BECK, ROBERT C. HD-00937-4
BECK, ROBERT C. MH-10938-1
BECK, STANLEY D. GM-05093-9
BECK, STANLEY D. GM-07557-5
BECK, WILLIAM S. CA-03728-8
BECKER, ALVIN OM-01639-1
BECKER, BERNARD CD-00013-7
BECKER, BERNARD NB-00621-11
BECKER, BERNARD NB-03639-3
BECKER, BERNARD NB-06243-1
BECKER, DAVID V. AM-05146-4
BECKER, E. LOVELL AM-02325-7
BECKER, E. LOVELL AM-05009-5
BECKER, FREDERICK F. CA-06353-3
BECKER, HOWARD S. MH-09222-1
BECKER, JOSEPH MH-06781-2
BECKER, NORWIN HOWARD NB-05257-2
BECKER, R. FREDERICK HD-01479-1
BECKER, ROBERT O. AM-07626-2
BECKER, YECHIEL TW-00152-1
BECKMAN, CARL H. GM-12364-1
BECKMAN, HARRY AI-03744-5
Beckman Instruments Contr. DRS-65-12
BECKMANN, CHARLES O. GM-10078-3
BEDELL, GEORGE N. HE-07104-4
BEE, HELEN I MH-10919-1
BEEBE, RALPH A. AM-02896-7
BEECHER, HENRY K. MH-00987-10
BEEHLER, CECIL C. NB-05450-1
BEEKEN, WARREN L. AM-04123-6
BEEKHUIS, G. JAN NB-03953-3
BEELER, DONALD A. AM-08579-2
BEEM, MARC O. HD-00289-8
BEEMAN, WILLIAM W. AI-01466-9
BEER, COLIN G. GM-12774-1
BEER, MICHAEL GM-08968-4
BEEREL, FREDERICK R. HE-09064-1
BEERS, ROLAND F., Jr. AM-06050-3
BEERS, ROLAND F., Jr. GM-10802-3
BEERS, RUSSELL J. AI-02596-5
BEESON, EDWARD L., Jr. GM-09719-3
BEHAL, FRANCIS J. CA-06389-3
BEHAL, FRANCIS J. GM-06244-7
BEHAR, MOISES AM-00981-10
BEHER, WILLIAM T HE-05085-5
BEHN, VAUGHN C. WP-00229-4
BEHN, VAUGHN C. WP-00234-4
BEHRENDT, THOMAS NB-05135-2
BEHRER, M. REMSEN HE-09528-1
BEHRMAN, SAMUEL J. HD-00976-2
BEIDELMAN, THOMAS O. MH-11631-1
BEIDLER, LLOYD M. NB-01083-9
BEIER, ERNST G. MH-10267-1
BEIERWALTES, WILLIAM H. HD-00688-8
BEIGELMAN, PAUL M. AM-06510-3
BEILIN, HARRY HD-00925-4
BEINERT, HELMUT GM-12394-1
BEISER, SAM M. AI-01763-8
BEKER, JEROME OM-01652-2
BEKER, JEROME OM-02006-1
BELAMARICH, FRANK A. HE-08172-2
BELCHER, JOHN C. EF-00584-2
BELDEN, EVERETT L. AI-03110-5
BELDING, HARWOOD S. OH-00048-9
BELEW, JOHN S GM-07310-6
BELFORD, JULIUS HE-03724-7
BELFORD, R. LINN GM-10907-3
BELKIN, JOHN N. AI-04379-4
BELL, A. EARL GM-11476-2
BELL, ALOIS A AI-05261-3
BELL, FRED E. CA-04538-7
BELL, GRACE B. FR-05351-4
BELL, NORMAN H. AM-09015-1
BELL, NORMAN H. AM-09016-1
BELL, NORMAN W. MH-08745-2
BELL, ROBERT F. OH-00114-4

BELL, ROBERT W. HD-00750-2
BELL, SANDRA L. CA-07264-2
BELLAK, LEOPOLD MH-10994-1
BELLER, FRITZ K. HD-00270-5
BELLET, SAMUEL HE-07364-3
BELLI, JAMES A. CA-08162-1
BELLIN, JUDITH S. CA-08358-2
BELLMAN, RICHARD E. GM-09608-4
BELLO, JAKE GM-09826-3
BELLO, JAKE GM-11060-1
BELOFF, RUTH H. AI-06223-2
BELSHAW, MICHAEL MH-10885-1
BELT, DUANE W. AM-09658-1
Ben Venue Labs. Contr. AI-63-536
BENACERRAF, BARUJ AI-02094-7
BENACERRAF, BARUJ AI-04983-3
BENAVENT, WALTER J. DE-01228-4
BENDER, HARVEY A. GM-08697-4
BENDER, ISRAEL B. DE-01929-2
BENDER, MERRILL A. HE-07832-3
BENDER, MORRIS B. MH-02261-8
BENDER, MORRIS B. NB-00294-12
BENDER, MORRIS B. NB-04576-3
BENDER, MORRIS B. NB-05221-1
BENDER, MYRON L. HE-05726-5
BENDITT, EARL P. HE-03174-9
Bendix Corp. Contr. AM-65-76
BENDIXEN, HENRIK H. HE-05859-5
BENDIXEN, HENRIK H. HE-06848-4
BENEDICT, ALBERT A AI-05660-2
BENEDICT, CHAUNCEY R. GM-10428-4
BENEDICT, ROBERT G. GM-07515-5
BENESCH, REINHOLD HE-06787-4
BENESCH, RUTH E. HE-05791-5
BENIRSCHKE, KURT GM-10210-3
BENJAMINI, ELIEZER AI-03966-5
BENJAMIN, ROBERT M. NB-01932-7
BENNETT, BOYCE P. CA-08145-1
BENNETT, DONALD R. AM-06678-3
BENNETT, DOROTHEA GM-09912-4
BENNETT, EDWARD O. AI-04882-3
BENNETT, H. STANLEY FR-00055-4
BENNETT, H. STANLEY FR-05367-4
BENNETT, HARRY J. EF-00474-2
BENNETT, J. CLAUDE GM-12456-1
BENNETT, JAMES S. DE-01835-3
BENNETT, JAMES E. GM-12879-1
BENNETT, LESLIE L. AM-01410-7
BENNETT, ROBERT E. OM-02225-1
BENNETT, RUTH CD-00029-6
BENNETT, WILLIAM E. GM-05532-7
BENNINGHOFF, DAVID L. CA-06972-2
BENOIT, PAUL F. HE-08200-2
BENOLKEN, ROBERT M. NB-02660-6
BENSBERG, GERARD J. Jr. OM-00644-5
BENSCH, KLAUS G. AM-05514-4
BENSCHOTER, REBA A. OM-01573-2
BENSON, ELLIS S. HE-01584-12
BENSON, JOHN A., Jr. AM-06612-3
BENSON, JOHN A., Jr. AM-07381-2
BENSON, RALPH C. NB-02370-8
BENSON, SIDNEY W. AP-00353-1
BENSON, WALTER R. CA-06425-4
BENSUSAN, HOWARD B. AM-01825-7
BENTAL, EPHRAIM TW-00037-3
BENTLEY, HERSCHEL P., Jr. HE-05430-5
BENTLEY, RONALD AM-00725-11
BENTLEY, RONALD AM-09311-1
BENTLEY, RONALD GM-08477-5
BENTON, ARTHUR L. NB-00616-11
BENTON, DUANE A. AM-08205-2
BERCHTOLD, GLENN A. AI-05408-3
BERCOVICI, BRUNO TW-00117-2
BERENBLUM, ISAAC CA-05263-5
BERENBLUM, ISAAC CA-05455-5
BERENSON, GERALD S. HE-02942-9
BERG, CLARENCE P. AM-03141-5
BERG, CLARENCE P. AM-06184-3
BERG, CLIFFORD O. AI-05923-2
BERG, LLOYD WP-00510-3
BERG, PAUL GM-06814-6
BERGAN, JOHN J. HE-09153-1
BERGDOLL, MERLIN S. AI-04511-4
BERGE, KENNETH G. HE-08892-1
BERGE, TRYGVE O. AI-03939-7
BERGER, LESLIE R. AI-05907-2
BERGEN, JOHN R. MH-02967-6
BERGENTZ, SVEN E. TW-00125-1
BERGER, DAVID G. OM-00886-4
BERGER, MORROE MH-06615-2
BERGMAN, EMMETT N. AM-05976-4
BERGMAN, MOE NB-04481-2
BERGMAN, NORMAN A. HE-08543-2
BERGMAN, RONALD A. NB-04096-4
BERGMANN, FELIX G. GM-06631-6
BERGMANN, LOUIS L. NB-05741-1
BERGOLD, GERNOT H. AI-06564-1
BERGREN, WILLIAM R. AM-03250-6
BERGREN, WILLIAM R. AM-04135-6
BERGREN, WILLIAM R. HD-00800-2
BERGREN, WILLIAM R. HD-01610-1
BERGREN, WILLIAM R. HE-05917-5
BERGS, VICTOR V. CA-08164-1
BERGSAGEL, DANIEL E. CA-03195-8
BERGSAGEL, DANIEL E. CA-06433-3
BERGSTROM, WILLIAM H. AM-07466-2
BERK, J. EDWARD GM-11897-2
BERKE, MARK FR-05472-3
BERK, RICHARD S. AI-05214-2
BERK, ROBERT H. MH-11493-1
BERKOWITZ, DONALD AM-07400-3
BERKOWITZ, DONALD HE-08517-2
BERL, SOLL NB-04064-3
BERLIN, K. DARRELL CA-07202-2
BERLIN, K. DARRELL GM-10367-3
BERLIN, LOUIS NB-03427-4
BERLIN, RICHARD D. GM-12420-1
BERLINER, DAVID L. AM-09216-1
BERLOW, STANLEY HD-00355-3
BERLOW, STANLEY MH-08531-2
BERLYNE, DANIEL E. MH-06324-3
BERMAN, AARON J. NB-03045-5
BERMAN, DAVID A. HE-01999-10
BERMAN, DAVID T. AI-05187-1
BERMAN, DAVID T. AM-00502-12
BERMAN, ELAINE R. NB-05887-1
BERMAN, HERBERT J. HE-00902-15
BERMAN, HERBERT J. HE-09447-1
BERMAN, IRWIN CA-04924-6
BERMES, EDWARD W., Jr. HD-00113-2
BERN, HOWARD A. AM-07896-2
BERNARD, VIOLA W. HD-01105-1
BERNE, ROBERT M. HE-06031-4
BERNER, LEWIS WP-00372-3
BERNFELD, PETER CA-03852-8
BERNFELD, PETER CA-07454-2
BERNFELD, PETER GM-12802-1
BERNFELD, PETER HE-03850-9
BERNHARD, SIDNEY A. GM-10451-3
BERNHARD, WILLIAM F. HE-08806-1
BERNHEIM, FREDERICK CA-04605-6
BERNHEIM, ROBERT A. GM-10274-3
BERNHEIMER, ALAN W. AI-02874-6
BERNHEIMER, HARRIET P. AI-05173-3
BERNICK, SOL DE-01033-6
BERNICK, SOL HD-00185-2
BERNKOPF, HANS NB-02824-5
BERNLOHR, ROBERT W. AI-05096-4
BERNSOHN, JOSEPH NR-04191-3
BERNSTEIN, ARTHUR HE-07059-3
BERNSTEIN, DANIEL S. AM-03967-6
BERNSTEIN, DANIEL S. AM-07600-2
BERNSTEIN, EUGENE F. HE-08981-1
BERNSTEIN, HOWARD N. NB-05417-2
BERNSTEIN, JAY AM-07840-2
BERNSTEIN, RALPH E. HE-05448-5
BERNSTEIN, I.A. AM-03429-5
BERNSTEIN, IRA H. MH-11173-1
BERNSTEIN, LIONEL M. HE-09150-1
BERNSTEIN, MAURICE H. NB-02010-7
BERNSTEIN, SELDON E. HD-00254-5
BERNTHAL, THEODORE G. HE-08857-2
BERRY, CHARLES A. MH-10826-1
BERRY, CLYDE M. EF-00154-6
BERRY, EDWARD C. EF-00541-1
BERRY, GEORGE P. FR-00168-4
BERRY, GEORGE P. FR-00175-1
BERRY, HARRISON M., Jr. DE-00240-10
BERRY, HELEN K. CD-00123-1
BERRY, HELEN K. HD-00324-10
BERRY, JAMES F. NB-05052-2
BERRY, MICHAEL N. AM-09376-1
BERRY, RICHARD N. HD-00915-5
BERRYHILL, W.R. FR-00046-5
BERSOHN, RICHARD CA-07712-2
BERSON, JEROME A. AM-07505-3
BERTANI, GIUSEPPE AI-04390-4
BERTHOLD, JEANNE S. NU-00130-2
BERTINO, JOSEPH R. CA-08010-1
BERTLES, JOHN F. AM-08154-1
BESCH, NORMA F. MH-06617-3
BESCH, PAIGE K. CA-07954-1
BESSMAN, ALICE N. AM-06990-3
BESSMAN, MAURICE J. CA-04088-7
BESSMAN, SAMUEL P. NB-01365-8
BESSMAN, SAMUEL P. NB-05062-1
BEST, CHARLES H. AM-03523-6
BEST, CHARLES H AM-09066-1
BEST, JAY B. MH-07603-3
BEST, MAURICE M. HE-08890-1
BEST, RUPERT J AI-04832-3
Beth Israel Hosp. Contr. CA-63-1154
BETHEIL, JOSEPH J. AM-08624-1
BETHEIL, JOSEPH J. GM-10878-4
BETHUNE, JOHN E. AM-06148-3
BETHUNE, JOHN E. AM-09014-1
BETTELHEIM, FREDERICK A. HD-01249-8
BETTMAN, JEROME W. NB-02634-6
BETTMAN, JEROME W. NB-03623-4
BETTMAN, JEROME W. NB-05516-1
BETTS, ANTHONY CA-08100-2
BEUTLER, ERNEST HE-07449-3
BEUTNER, ERNST H. DE-01801-3
BEVAN, DONALD E. WP-00642-1
BEVAN, JOHN A. HE-06730-3
BEVAN, JOHN A. HE-08359-2
BEVELANDER, GERRIT DE-01825-3
BEYCHOK, SHERMAN GM-10576-3
BEYER, ROBERT E. AM-06751-4
BEZKOROVAINY, ANATOLY GM-11985-2
BHATIA, HARIKISHIN M. TW-00077-1
BHATIA, VISHNU N. GM-11372-2
BHUSSRY, BALDEV R. HD-01394-1
BIAGI, FRANCISCO AI-03129-6
BIAGI, FRANCISCO AI-04836-3
BIALE, JACOB B. GM-08224-4
BIANCHI, C. PAUL NB-03321-5
BIANCHI, C. PAUL NB-03322-4
BIANCHI, DONALD E. AI-04368-3
BIANCULLI, JOSEPH A. FR-05455-3
BIBBY, BASIL G. FR-05548-3
BIBER, BARBARA MH-09135-7
BIBRING, GRETE L. HE-08958-1
BICHSEL, HANS CA-08150-1
BICK, GEORGE H. GM-10155-3
BICKERS, JOHN N. CA-08002-1
BICKFORD, R.G. NB-03225-5
BICKFORD, REGINALD G. NB-02056-7
BICKFORD, REGINALD G. NB-04457-3
BICKFORD, REGINALD G. NB-04917-2
BICKLEY, HARMON C. DE-02053-2
BICKS, RICHARD O. AM-09384-1
BIDDER, T. GEORGE NR-03035-5
BIEMANN, KLAUS GM-05472-7
BIEMANN, KLAUS GM-09352-4
BIEN, SHLOMO HE-08467-2
BIENIARZ, JOSEF HD-00794-1
BIENVENU, RENE J., Jr. AI-03368-5
BIER, MILAN WP-00783-1
BIERENBAUM, MARVIN L. HE-05905-5
BIERI, JAMES MH-08334-2
BIERMAN, EDWIN L. AM-06670-2
BIESELE, JOHN J. HD-01016-1
BIEZENSKI, JERZY J. HD-00441-4
BIGGAR, JAMES W. WP-00081-4
BIGGERSTAFF, WARREN R. CA-06774-3
BIGLIERI, EDWARD G. AM-06415-3
BIGNALL, KEITH E. NR-05713-1
BIJOU, SIDNEY W. OM-01366-2
BIJOU, SIDNEY W. MH-02232-8
BIJVOET, PAUL CA-06506-3
BILES, JOHN A. AM-08652-2
BILGER, ROBERT C. NB-03032-5
BILGER, ROBERT C. NB-04105-3
BILLEN, DANIEL CA-04045-7
BILLINGHAM, RUPERT E. CA-05927-4
BILLMAN, JOHN H. CA-06448-3
BILLMAN, JOHN H. CA-07227-2
BINDER, ARNOLD MH-11792-1
BINDER, RUDOLF F. NB-04539-2
BINDRA, DALBIR MH-03238-5
BINFORD, CHAPMAN H. AI-04809-4
BING, RICHARD J. HE-05043-7
BINGGELI, RICHARD L. NB-05891-1
BINHAMMER, ROBERT T. AM-08836-1
BINHAMMER, ROBERT T. CA-08037-1
BINKLEY, FRANCIS O. AM-06089-4
BINKLEY, STEPHEN B. AI-03380-5
BINKLEY, STEPHEN B. CA-03231-8
BINNER, PAUL R. OM-00931-4
Biological Abstracts Contr. LM-65-91

ALPHABETICAL LISTING OF INVESTIGATORS

Bionetics Research Lab.	Contr. CA-62-412
Bionetics Research Lab.	Contr. CA-64-57
BIRCH, HERBERT G.	HD-00719-4
BIRD, JOHN T.	DE-01922-3
BIRD, JOHN W. C.	AM-06625-3
BIRD, ROBERT M.	HE-07489-3
BIRKY, CARL W., Jr.	GM-12183-2
BIRNBOIM, MEYER H.	GM-12116-2
BIRNBRAUER, JAY S.	OM-02130-1
BIRZIS, L.	NB-04210-3
BIRZIS, LUCY	NB-03325-5
BISHOP, CHARLES W.	AM-06367-3
BISHOP, EDWARD H.	HD-01820-1
BISHOP, HAROLD P.	NB-05088-2
BISHOP, JACK G.	FR-05343-4
BISHOP, JACK G.	HE-09049-9
BISHOP, JACK L.	ES-00071-1
BISHOP, NORMAN I.	GM-11745-2
BISHOP, RONALD C.	CA-02971-9
BISSELL, DWIGHT M.	OM-01089-3
BISWAS, PROSANTO K.	EF-00753-1
BITTERMAN, M.E.	MH-02857-7
BIXBY, EMILY M.	HD-01124-1
BJORK, ARNE	HD-00154-7
BJORKMAN, NILS H.	TW-00083-2
BLACK, ABRAHAM H.	MH-02741-7
BLACK, ALVIN P.	WP-00139-10
BLACK, ARTHUR L.	GM-08183-5
BLACK, BERTRAM J.	OM-01405-1
BLACK, CLANTON C., Jr.	GM-12273-2
BLACK, DONALD L.	HD-00745-2
BLACK, FRANCIS L.	AI-00701-10
BLACK, JOHN W.	NB-03388-4
BLACK, LINDSAY M.	AI-06392-1
BLACK, MAURICE M.	CA-05678-5
BLACK, SAMUEL H.	AI-05470-3
BLACKBURN, CHARLES M.	CA-03664-8
BLACKBURN, CLARK W.	OM-01921-1
BLACKBURN, JOHN G.	HD-01819-1
BLACKER, KAY H.	MH-10122-2
BLACKSTAD, THEODORE W.	NB-02215-6
BLACKWELL, H. RICHARD	NB-02201-6
BLACKWOOD, RALPH O.	MH-11017-1
BLAHA, GORDON C.	HD-01037-1
BLAHD, WILLIAM H.	AM-07253-2
BLAIR, EMIL	HE-06154-5
BLAIR, EMIL	HE-07918-3
BLAIR, JOHN E.	AI-06347-1
BLAISDELL, F. WILLIAM	HE-06998-4
BLAKE, CLARA O.	AM-02863-7
BLAKE, ELEANOR	OM-01594-1
BLAKE, JOSEPH T.	HE-09454-1
BLAKE, KATHRYN A.	NB-05291-1
BLAKE, THOMAS M.	HE-07159-3
BLAKE, WILLIAM D.	AM-06159-4
BLAKLEY, RAYMOND L.	TW-00165-1
BLALOCK, ALFRED	HE-00226-14
BLANC, WILLIAM A.	AM-09067-1
BLANC, WILLIAM A.	HD-00743-2
BLANC, WILLIAM A.	HD-00766-2
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BLAND, JOHN H.	AM-05069-4
BLANDAU, RICHARD J.	GM-04241-11
BLANDAU, RICHARD J.	GM-11396-2
BLANDAU, RICHARD J.	HE-02083-11
BLANK, FRITZ	AI-05378-3
BLANK, FRITZ	GM-10212-3
BLANK, HARVEY	AI-01546-9
BLANK, HARVEY	CA-04036-7
BLANK, IRVIN H.	GM-04760-9
BLANK, MARION	MH-08498-2
BLANK, MARTIN	GM-10101-3
BLANKENHORN, DAVID H.	HE-07197-3
BLANTON, C. DeWITT, Jr.	MH-10673-1
BLAQUIER, PEDRO	HE-06229-4
BLATTNER, RUSSELL J.	CA-03161-8
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BLATTNER, RUSSELL J.	HD-00514-5
BLATZ, PAUL E.	GM-12616-2
BLAU, DAVID	OM-00069-4
BLAU, MONTE	CA-06881-3
BLAYLOCK, W. KENNETH	AI-06416-1
BLAYNEY, J. ROY	DE-00004-16
BLECHER, MELVIN	AM-05475-4
BLECHER, MELVIN	AM-06208-4
BLEIER, RUTH H.	NB-03672-4
BLENDEN, DONALD C.	CC-00066-6
BLINKS, JOHN R.	HE-03738-7
BLISS, EUGENE L.	MH-10284-1
BLISS, HARRY A.	HE-07571-3
BLIVAISS, BEN B.	AM-05858-4
BLEVINS, CHARLES E.	NB-05875-1
BLIZZARD, ROBERT M.	AM-04499-5
BLIZZARD, ROBERT M.	HD-01852-1
BLOBEL, HANS	FF-00370-3
BLOCH, DAVID P.	GM-09654-4
BLOCH, DONALD A.	MH-02446-7
BLOCH, DONALD A.	MH-07268-3
BLOCH, EDWARD H.	HF-05300-5
BLOCH, ERIC	HD-00420-7
BLOCH, ERIC	HD-01203-5
BLOCH, KONRAD E.	HE-02477-9
BLOCK, JAMES D.	MH-06010-4
BLOCK, MATTHEW H.	AM-09394-12
BLOCK, SEYMOUR S.	AI-02793-7
BLOCK, WALTER D.	AM-06825-3
BLOCK, WILLIAM E.	MH-06101-3
BLOCKER, T.G., Jr.	GM-10903-3
BLOCKER, TRUMAN G., Jr.	FR-00073-3
BLOCKER, TRUMAN G., Jr.	FR-05427-4
BLOEDORN, FERNANDO G.	CA-06518-2
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BLOEDORN, FERNANDO G.	CA-09482-8
BLOIS, MARSDEN S., Jr.	CA-08064-1
BLOIS, MARSDEN S., Jr.	GM-10847-7
BLOMBACK, ERIK G.B.	HE-07379-3
BLOMSTRAND, ROLF L.	HE-07663-4
BLOODWORTH, J.M.B., Jr.	AM-07118-3
BLOOM, WALTER L.	HE-05301-6
BLOOM, WILLIAM	HD-01241-8
BLOOMER, H. HARLAN	DE-01984-2
BLOOMFIELD, DANIEL K.	AM-05304-3
BLOOMFIELD, RICHARD A.	AM-07303-3
BLOOMFIELD, RICHARD A.	GM-12540-1
BLOOMFIELD, VICTOR A.	GM-12555-1
BLOOR, BYRON M.	NB-03343-5
BLOUGH, DONALD S.	MH-02456-7
BLOUGH, HERBERT A.	AI-06015-2
BLOUNT, RAYMOND F.	HE-07484-3
BLOUNT, S. GILBERT, Jr.	HF-01208-13
BLOUT, ELKAN R.	AM-07300-3
BLUM, GERALD S.	MH-08847-1
BLUM, JACOB J.	HD-01269-3
BLUM, JOHN A.	GM-12904-1
BLUM, JOHN L.	WP-00857-1
BLUM, LIVIA F.	AI-06252-1
BLUMBERG, ARNOLD G.	MH-05233-4
BLUMBERG, BARUCH S.	CA-08069-1
BLUMENFELD DE BOSCH, NORMA	AM-08629-1
BLUMENFELD, OLGA O.	AM-05821-4
BLUMENSTOCK, DAVID A.	CA-05413-5
BLUMENSTOCK, DAVID A.	CA-06765-3
BLUMENSTOCK, DAVID A.	HE-06503-4
BLUMENTHAL, HAROLD J.	AI-01493-8
BLUMENTHAL, HAROLD J.	AI-06792-1
BLUMENTHAL, HERMAN T.	AM-07116-3
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BLUMENTHAL, MONICA D.	MH-08592-2
BO, WALTER J.	AM-08029-2
BO, WALTER J.	HD-01357-1
BOAKE, WILLIAM C.	HE-08082-2
BOAS, NORMAN F.	AM-00975-10
BOATMAN, JOSEPH B.	AM-07325-2
BOATMAN, JOSEPH B.	AM-09352-1
BOBB, DOLORES	GM-11832-2
BOBBITT, JAMES M.	CA-03905-8
BOBBITT, JAMES M.	CA-05267-5
BOCANEGRA, MANUEL	GM-03123-15
BOCCABELLA, ANTHONY V.	AM-04129-6
BOCCABELLA, ANTHONY V.	NB-02857-5
BOCK, ROBERT M.	GM-12395-1
BOCKOVEN, J. SANBOURNE	OM-01520-2
BODA, JAMES M.	AM-03291-6
BODANSKY, OSCAR	CA-04251-8
BODE, VERNON C.	AI-06493-1
BODILY, HOWARD L.	CC-00035-3
BOEHM, BERNICE	OM-00596-2
BOEHM, JOHN J.	HD-00237-3
BOEKELHEIDE, VIRGIL C.	NB-02921-5
BOEREMA, ITE	HF-07405-3
BOETTIGER, EDWARD G.	NB-05086-2
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BOEZI, JOHN A.	GM-12078-2
BOGDANOVE, EMANUEL M.	NB-03371-5
BOGDONOFF, MAURICE L.	HF-09269-1
BOGDONOFF, MORTON D.	HE-08571-2
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BOGGS, JOSEPH D.	AI-04650-4
BOGGS, THOMAS R., Jr.	NB-04828-2
BOGGS, THOMAS R. Jr.	NB-05138-2
BOGITSH, BURTON J.	AI-06413-1
BOGNER, PHYLLIS H.	AM-02353-7
BOGOCH, SAMUEL	HD-01622-1
BOGORAD, LAWRENCE	AM-01010-10
BOGORAD, LAWRENCE	GM-10324-3
BOGUCKI, RAYMOND F.	GM-10883-3
BOHAK, ZVI	GM-12971-1
BOHANNAN, PAUL J.	MH-06551-2
BOHR, DAVID F.	HE-03756-8
BOHR, DAVID F.	HF-07750-3
BOHRER, C. WALLACE	EF-00124-5
BOHRER, C. WALLACE	EF-00632-2
BOHROD, MILTON G.	AM-06635-3
BOLAND, JAMES P.	HF-09642-1
BOLAND, JOHN	CA-07540-2
BOLANDE, ROBERT P.	HE-09047-1
BOLD, HAROLD C.	AI-06023-2
BOLD, HAROLD C.	GM-08211-5
BOLDEN, THEODORE E.	DE-02055-2
BOLDREY, EDWIN B.	NB-02413-7
BOLE, GILES G., Jr.	AM-06206-4
BOLING, JOHN L.	GM-11568-2
BOLING, LEROY R.	FR-05325-4
BOLINGER, ROBERT E.	AM-00504-11
BOLLET, ALFRED J.	AM-03421-6
BOLT, JAY A.	AP-00365-1
BOLTON, SANFORD	NB-04580-2
BONAVITA, VINCENZO	NB-02917-5
BOND, CARL E.	WP-00625-2
BOND, DOUGLAS D.	FR-00080-3
BOND, DOUGLAS D.	FR-05410-4
BOND, F. THOMAS	AM-07762-2
BOND, JAMES O.	AI-05504-3
BOND, THOMAS J.	CA-01552-14
BONDAREFF, WILLIAM	NB-05175-1
BONEAU, CHARLES A.	MH-06661-3
BONDI, AMEDEO	AI-01079-9
BONDURANT, STUART	HE-08240-3
BONDY, PHILIP K.	AM-00254-13
BONDY, PHILIP K.	AM-04771-5
BONFIGLIO, MICHAEL	AM-00732-13
BONGIOVANNI, ALFRED M.	FR-00240-1
BONGIOVANNI, ALFRED M.	HD-00371-11
BONGIOVANNI, ALFRED M.	NB-02366-8
BONILLA-SOTO, ORLANDO	AI-04336-2
BONNER, JAMES	AM-03102-7
BONNER, JAMES F.	GM-03977-12
BONNER, JAMES F.	GM-05143-9
BONNER, WILLIAM A.	GM-06232-6
BONNER, WILLIAM A.	GM-10541-3
BONNET, PHILIP D.	FR-05487-3
BONNEY, CHARLES H.	WP-00039-4
BONNYCASTLE, DESMOND D.	NB-04698-3
BONSIGNORE, ARTURO	HE-04586-6
BONTE, FREDERICK J.	HE-05181-6
BOOK, JAN A.	NB-04320-3
BOOKER, CLIFFORD R.	HE-07186-4
BOOKER, WALTER M.	HE-08144-3
BOONE, BERT R.	FR-05417-4
BOONE, DONALD M.	AI-00140-15
BOONIN, NATHANIEL N.	OM-01064-3
BOORD, ROBERT L.	NB-05056-2
BOOTH, JOHN A.	FF-00709-1
BOOTH, N.H.	HE-07160-3
Booz-Allen Applied	Contr. DBS-65-81
BORCHARDT, J.A.	WP-00329-3
BORCHARDT, J.A.	WP-00333-3
BORCHARDT, JACK A.	WP-00155-7
BORCHERS, RAYMOND	AM-02018-5
BORDLEY, JAMES, III	FR-05498-3
BORDLEY, JOHN E.	NB-01829-7
BORDLEY, JOHN E.	NB-03649-4
BORDWELL, FREDERICK G.	CA-07351-2
BOREK, ERNEST	AI-01181-9
BOREK, ERNEST	AI-04671-4
BOREN, HOLLIS G.	OM-00151-3
BORGES, WAYNE H.	CA-07336-2
BORGES, WAYNE H.	CA-07431-2
BORGMAN, ROBERT F.	AM-07027-3
BORGSTROM, BENGT	HE-05302-5
BORGSTROM, GEORGE A.	FF-00383-3
BORIS, HAROLD N.	OM-00662-4
BORISON, HERBERT L.	NB-04456-3
BORLE, ANDRE B.	AM-07867-2
BORN, DAVID G.	MH-10864-1
BORNSTEIN, JOSEPH	GM-10222-3
BORNSTEIN, MURRAY B.	NB-01913-7
BOROFF, DANIEL A.	AI-04180-3
BOROWITZ, GENE H.	MH-06391-3
BOROWITZ, IRVING J.	AI-06303-1
BORSOOK, HENRY	HE-01624-14
BORTOFF, ALEXANDER	AM-06958-3

BORTZ, WALTER M. II AM-08887-1
BORTZ, WALTER M. II HF-08891-2
BOSCHETTI, ANTONIO E. CA-06321-3
BOSE, AJAY K. CA-05079-6
BOSE, AJAY K. GM-12122-2
BOSE, AJAY K. MH-03930-6
BOSHELL, BURIS R. AM-03069-6
BOSHELL, BURIS R. AM-06744-3
BOSHER, LEWIS H., Jr. HF-03065-9
BOSHES, BENJAMIN NB-01421-7
BOSOMWORTH, PETER P. HD-01335-1
BOSSERT, LESTER J. CA-07366-2
Boston Lying-in Hosp. Contr. HD-65-71
BOSTROM, HARRY AM-02568-7
BOSTROM, HARRY AM-04410-5
BOTHWELL, THOMAS H. AM-04912-5
BOTTCHER, C.J.F. HF-05766-5
BOTTINI, ALBERT T. CA-05528-5
BOTTINI, ALBERT T. GM-10606-3
BOTTOMLEY, RICHARD H. CA-04420-4
BOTTOMLEY, SYLVIA S. HE-07499-4
BOTWINICK, JACK HD-01325-1
BOTWINICK, JACK MH-08244-2
BOUCEK, ROBERT J. AM-08399-6
BOUCHER, LOUIS J. DE-01826-3
BOUCK, GEORGE B. GM-11100-3
BOUHUYS, AREND OH-00207-1
BOULDIN, WALTER V. RH-00288-2
BOURGUIGNON, ERIKA MH-07463-3
BOURNE, GEOFFREY H. HF-04553-6
BOURNE, GEOFFREY H. HF-05691-5
BOURNE, GEOFFREY H. NB-01914-6
BOURNE, GEOFFREY H. NB-02038-7
BOURNE, LYLE E., Jr. MH-08315-2
BOUSFIELD, WESTON A. MH-10409-1
BOUSQUET, WILLIAM F. AM-08752-1
BOWEN, CHARLES C. HD-01248-8
BOWEN, JOHN M NB-05458-1
BOWEN, R.L. DE-00589-8
BOWER, GORDON H. HD-00954-2
BOWERS, CYRIL Y. AM-06413-3
BOWERS, CYRIL Y. AM-06164-4
BOWIE, WALTER C. HF-08258-2
BOWMAN, JAMES E. GM-11617-2
BOWMAN, KARL M. OM-02058-1
BOWMAN, PAUL H. OM-00535-4
BOWMAN, PAUL H. OM-02302-1
BOWMAN, PAUL H. OM-02303-1
BOWMAN, PETER W. OM-01758-2
BOX, EDITH D. AI-03781-4
BOX, HAROLD C. GM-10873-5
BOYARSKY, LOUIS L. NB-03971-4
BOYARSKY, SAUL AM-07785-2
BOYARSKY, SAUL AM-08292-2
BOYCE, WILLIAM H. AM-08089-2
BOYCE, WILLIAM H. CA-07375-2
BOYD, EDITH HD-00601-3
BOYD, EUGENE S. MH-04230-5
BOYD, EUGENE S. MH-07973-2
BOYD, FRANK M. AM-07532-3
BOYD, THOMAS F. AM-08052-1
BOYD, WILLIAM C. GM-04704-9
BOYD, WILLIAM C. GM-06939-6
BOYD, WILLIAM C. HE-01076-13
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BOYDEN, EDWARD A. HD-00656-9
BOYER, CHARLES C. HF-07900-3
BOYER, DON R. GM-07168-6
BOYER, L. BRYCE MH-03088-5
BOYER, PAUL D. GM-11094-3
BOYLE, ALBERT J. AM-05776-4
BOYLE, ALBERT J. HE-04543-6
BOYLE, EDWIN, Jr. HE-04040-8
BOYLE, PAUL E. FR-05335-4
BOYLE, TERRENCE J. OM-00981-2
BOYNTON, ROBERT M. NB-00624-12
BOYSE, EDWARD A. CA-06338-4
BOZARTH, ROBERT CA-04294-7
BOZIAN, RICHARD C. AM-08121-2
BOZLER, EMIL AM-02527-7
BOZZINI, MIGUEL A. CA-08096-1
BRACELAND, FRANCIS J. MH-11206-1
BRACHFELD, NORMAN HE-06216-4
BRACKBILL, YVONNE MH-05994-4
BRADBURY, JAMES T. AM-01686-8
BRADDOCK, J.E. ROY I AP-00417-1
BRADFORD, F. KEITH NB-01919-6
BRADFORD, G. ERIC HD-00134-2
BRADFORD, GORDON R. WP-00484-2
BRADFORD, LOWELL W. GM-11505-2
BRADFORD, REAGAN H. HE-06915-4
BRADFORD, REAGAN H. HE-06916-3
BRADLEY, RICHARD E. DE-01166-5
BRADLEY, S. GAYLEN AI-01601-9
BRADLEY, S. GAYLEN AI-04075-5
BRADLEY, STANLEY E. AM-07970-2
BRADLEY, STANLEY E. HE-05741-5
BRADLEY, THOMAS B., Jr. HE-09014-2
BRADLEY, WILLIAM NB-05319-1
BRADSHER, CHARLES K. CA-05509-5
BRADSHER, CHARLES K. HE-02170-10
BRADY, ALLAN J. HE-09257-1
BRADY, JOHN P. MH-10486-1
BRADY, NORMAN A. FR-05477-3
BRAITENBERG, VALENTINO NB-03922-3
BRAMBEL, CHARLES E. AM-07425-3
BRAND, EUGENE D. HE-01942-10
BRAND, K. GERHARD HD-00146-4
BRAND, LUDWIG GM-11632-2
Brandeis Univ. Contr. CA-64-534
BRANDES, DAVID CA-05425-5
BRANDES, DAVID HD-00042-6
BRANDFONBRENER, MARTIN HE-08697-2
BRANDLY, C.A. FR-05460-3
BRANDLY, CARL A. CC-00037-3
BRANDSTATER, BERNARD J. HD-00780-1
BRANDT, EDWARD N., Jr. HE-09698-1
BRANDT, IRA K. GM-06992-6
BRANDT, PHILIP W. HE-07433-3
BRANDT, WARREN W. WP-00647-2
BRANDT, WERNER W. GM-10288-3
BRANDT, WERNER W. GM-12174-2
BRANDTS, JOHN F. GM-11071-3
BRANEMARK, PER-INGVAR HE-05724-5
BRAS, GERRIT AM-04525-3
BRASHEAR, H.R. AM-05523-2
BRASWELL, EMORY H. HE-08897-2
BRATER, ERNEST F. WP-00834-1
BRATZLER, L.J. EF-00435-2
BRAUDE, ABRAHAM I. HE-03220-9
BRAUER, JOHN C. FR-05333-4
BRAUN, ARMIN C. CA-06346-4
BRAUN, IDA G HD-01065-1
BRAUN, LOREN L. CA-04991-6
BRAUN, WERNER AM-08742-1
BRAUN, WERNER CA-04786-6
BRAUNSTEIN, HERBERT CA-07734-1
BRAUNSTEIN, MYRON L. AC-00209-1
BRAVERMAN, LEWIS E. AM-07917-2
BRAVERMAN, MAXWELL H. GM-13227-1
BRAVO, MARIA C. TW-00164-1
BRAWERMAN, GEORGE GM-11527-2
BRAY, PATRICK F. NB-02888-5
BRAY, PATRICK F. NB-04616-3
BRAY, PHILIP J. CA-08041-1
BRAY, ROBERT S. AI-04411-3
BRAYER, A. RICHARD GM-11104-2
BRAYER, FRANKLIN T. RH-00326-1
BRAZIE, JOSEPH V. HD-00373-9
BRAZIER, MARY A.B. NB-04773-2
BREATHNACH, CHAOIMHGHIN S. TW-00090-1
BREAZILE, JAMES E. NB-05362-2
BREAZILE, JAMES E. NB-05392-1
BREBBIA, D. ROBERT MH-05333-4
BRECHER, ARTHUR S. NB-05074-2
BRECHER, GERHARD A. HE-03796-7
BRECHER, GERHARD A. HE-07782-3
BRECHNER, VERNE L. NB-04138-2
BRECHNER, VERNE L. NB-05520-1
BREEDIS, CHARLES CA-01116-15
BREESE, BURTIS B. HD-00287-6
BREG, W. ROY HD-00339-5
BREHMER, MORRIS L. WP-00035-3
BREININ, GOODWIN M. NB-00911-10
BREININ, GOODWIN M. NB-01325-8
BREITENBACH, ROBERT P. AI-05643-2
BRELAND, OSMOND P. AI-03424-5
BRENER, JACOB L. CA-08196-1
BRENEMAN, WILLIAM R. CA-02415-9
BRENMAN, HENRY S. DE-00663-7
BRENNAN, JAMES J. OM-00868-2
BRENNAN, MICHAEL J. CA-03357-9
BRENNER, ROBERT M. AM-09060-2
BRENNER, RODOLFO R. HE-08267-2
BRENT, ROBERT L. HD-00630-3
BRESLER, JACK B. HD-00603-3
BRESLOW, ESTHER M. HE-02739-9
BRESLOW, LESTER CH-00076-3
BRESLOW, RONALD AM-05679-4
BRESNICK, EDWARD CA-06571-3
BRESSANI, RICARDO AM-03811-6
BRESSLER, RUBIN HF-07061-4
BRETZ, HAROLD W. EF-00428-2
BREWER, GEORGE J. AM-07752-2
BREWER, GEORGE J. AM-09381-1
BREWER, JOHN I. CA-06616-3
BREWER, JOSEPH H. OM-02221-1
BREY, WALLACE S., Jr. GM-09343-4
BREY, WALLACE S., Jr. GM-10861-9
BREYERE, EDWARD J. CA-05660-5
BRICKER, NEAL S. AM-02667-9
BRICKMAN, HARRY R. OM-00954-2
BRIDGER, WAGNER H. MH-06282-2
BRIDGERS, WILLIAM F. HD-00623-3
BRIDGES, CHARLES H. HD-00430-6
BRIDGES, ROBERT A. AM-07002-3
BRIEGER, HEINRICH OH-00156-2
BRIEHL, ROBIN W. HE-07451-3
BRIERLEY, GERALD P. HE-09364-1
BRIGGS, ARTHUR H. HE-05612-5
BRIGGS, DONALD K. CA-07407-9
BRIGGS, GEORGE M. AM-09195-1
BRIGGS, NORMAN F. HE-06782-4
BRIGGS, ROBERT W. GM-05850-7
BRIGGS, THOMAS L. OM-01420-1
BRIGHT, HAROLD J. GM-11040-3
BRILL, ARTHUR S. GM-09256-4
BRILL, HENRY MH-05664-4
BRILL, NORMAN Q. AM-06603-3
BRILL, NORMAN Q. AM-08775-1
BRILL, NORMAN Q. GM-11055-2
BRILL, NORMAN Q. MH-08406-2
BRILL, NORMAN Q. NB-03556-4
BRILLIANTINE, LAURA GM-06541-6
BRIN, MYRON AM-03127-6
BRIN, MYRON AM-09051-1
BRIN, MYRON GM-07789-5
BRINKHOUS, KENNETH M. HE-01648-18
BRINKHOUS, KENNETH M. HE-06350-4
BRINKHURST, RALPH O. WP-00521-2
BRINKLEY, HOWARD J. HD-00739-2
BRINLEY, FLOYD J., Jr. GM-08427-5
BRINSDEN, GILBERT I. DE-01735-3
BRINTON, CHARLES C., Jr. AI-03242-6
BRISKEY, ERNEST J. EF-00081-7
BRISKEY, ERNEST J. EF-00727-1
BRISON, DAVID W. HD-01431-1
Bristol-Myers Co. Contr. CA-64-1159
BRITTAIN, ROBERT S. HF-07735-3
BROADHURST, PETER L. MH-08712-2
BROCHMANN-HANSSEN, EINAR MH-03487-6
BROCK, DONALD R. AM-07498-2
BROCK, JOHN F. AM-03995-6
BROCK, JOHN F. HE-03316-8
BROCK, WILLIAM E. HE-09013-2
BROCKBANK, T.W. OM-01938-1
BROCKMAN, STANLEY K. HF-04862-6
BRODIE, ALLAN G. DE-01468-4
BRODIE, ARNOLD F. AI-05637-3
BRODIE, DONALD C. HE-04042-7
BRODIE, HARRY J. AM-05362-4
BRODIE, HARRY J. AM-06894-2
BRODISH, ALVIN AM-03065-7
BRODOFF, BERNARD N. AM-09211-1
BRODSKY, ISADORE CA-06832-3
BRODSKY, WILLIAM A. AM-00461-14
BRODY, ALFRED W HE-09099-1
BRODY, DANIEL A. HF-01362-13
BRODY, HAROLD NB-01441-6
BRODY, JEROME I. CA-07000-3
BRODY, MICHAEL J. NB-04889-2
BRODY, SYLVIA OM-01429-2
BRODY, THEODORE M. GM-04759-9
BROMBERG, BERTRAM E. GM-12057-1
BROMBERG, PHILIP A. HE-09523-1
BRONK, J. RAMSEY AM-02757-7
BRONNER, FELIX AM-07983-3
BRONSKY, DAVID AM-04654-5
BRONSON, FRANKLIN H. HD-00767-2
BROOKBANK, JOHN W. GM-04659-9
BROOKES, VICTOR J. AI-02390-7
BROOKHART, JOHN M. NB-04744-2
Brooklyn College Contr. AM-65-591
BROOKS, CHANDLER M. NB-00847-10
BROOKS, CHANDLER McC. HD-00102-2
BROOKS, CHANDLER McC. NB-05268-1
BROOKS, DANA C. NB-02091-5
BROOKS, DEAN K. OM-01823-2
BROOKS, GLIDDEN L. HD-00671-5
BROOKS, GLIDDEN L. NB-02356-9
BROOKS, JOHN R. AM-01425-9
BROOKS, MARION A. AI-00961-10

ALPHABETICAL LISTING OF INVESTIGATORS

BROOKS, MELVIN S. MH-08008-2
BROOKS, NORMAN H. WP-00428-3
BROOKS, NORMAN H. WP-00680-2
BROOKS, THOMAS J., Jr. GM-12510-1
BROOKS, VERNON B. NB-05508-2
BROOKSHIRE, KENNETH H. MH-05874-4
BROOME, JOHN D. CA-08045-1
BROPHY, GERALD P. DE-01636-4
BROQUIST, HARRY P. AM-03156-6
BROSSEAU, GEORGE E., Jr. GM-06508-6
BROTMAN, RICHARD OM-01393-1
BROWMAN, LUDVIG G. NB-03268-4
BROWN, ANTHONY W.A. AI-02320-7
BROWN, ARNOLD L. HE-04856-6
BROWN, AUDREY K. AM-08957-1
BROWN, AUDREY K. HD-00389-5
BROWN, BARBARA B. MH-08126-3
BROWN, C.J.D. AI-05055-3
BROWN, C.J.D. WP-00438-1
BROWN, CHARLES A. GM-10252-3
BROWN, CLINTON C. MH-10731-1
BROWN, DAVID H. GM-04761-9
BROWN, DONALD R. HD-00909-5
BROWN, DONALD W. HE-09112-1
BROWN, E.B., Jr. AM-05649-5
BROWN, EARL B. HD-01806-1
BROWN, ELLIS V. CA-06578-3
BROWN, ELWYN S. HE-09010-2
BROWN, FOUNTAINE C. AM-09371-1
BROWN, FOUNTAINE C. NB-04454-3
BROWN, FRANK A., Jr. GM-07405-5
BROWN, GENE M. AM-03442-6
BROWN, GENE M. GM-13004-1
BROWN, GEORGE B. CA-03190-9
BROWN, GEORGE W., Jr. GM-09988-3
BROWN, GLENN H. GM-10879-5
BROWN, HARRY D. HE-09571-1
BROWN, HENRY AM-07945-3
BROWN, HENRY C. CA-05083-5
BROWN, HERBERT C. GM-10937-3
BROWN, IVAN W., Jr. HE-04702-6
BROWN, IVAN W., Jr. HE-09821-1
BROWN, JERRAM L. MH-07700-3
BROWN, JOHN L. NB-02205-6
BROWN, JOSIAH AM-01847-8
BROWN, JUDSON S. MH-06900-3
BROWN, JUDSON S. MH-11734-1
BROWN, KENNETH T. NB-01903-6
BROWN, LARRY T. MH-10350-1
BROWN, LEE F. WP-00853-1
BROWN, MAYO E. HE-08394-2
BROWN, RACINE D. OM-00947-3
BROWN, RAY K. AI-06086-3
BROWN, RAYMOND R. CA-03274-8
BROWN, ROBERT GM-10188-3
BROWN, ROGER W. MH-07088-4
BROWN, RUSSELL V. MH-10640-1
BROWN, RUSSELL W. CA-03972-7
BROWN, SAM C. MH-11179-1
BROWN, SIDNEY O. NB-05346-1
BROWN, THEODORE L. GM-10871-5
BROWN, THOMAS M. AI-02764-6
BROWN, THOMAS S. MH-10791-1
BROWN, W. JANN HD-00416-4
BROWN, WALTER E. DE-00572-6
BROWN, WALTER E. DE-01819-3
BROWNELL, GORDON L. AM-05423-3
BROWNELL, GORDON L. GM-11173-3
BROWNING, HENRY C. CA-02880-10
BROWNSON, ROBERT H. NB-01289-9
BROWNSTEIN, AARON J. MH-10649-1
BROZEK, JOSEF MH-07179-3
BRUBAKER, CHARLES A. AM-00182-14
BRUBAKER, CHARLES A. CA-02649-9
BRUCE, ROBERT A CO-00066-4
BRUCE, ROBERT A. HE-00908-15
BRUCK, ERIKA HD-00661-5
BRUDEVOLD, FINN DE-02183-1
BRUELL, JAN H. HE-07216-3
BRUETMAN, MARTIN E. HE-09008-1
BRUICE, THOMAS C. AM-09171-1
BRUINS, PAUL F. WP-00620-1
BRUNER, EDWARD M. MH-10408-1
BRUNER, EDWARD M. MH-11139-1
BRUNER, JEROME S. MH-05120-5
BRUNER, JEROME S. MH-06626-3
BRUNGARDT, V.H. AM-08647-1
BRUNISH, ROBERT NB-03998-4
BRUNJES, SHANNON MH-05470-4
BRUNJES, SHANNON D. AM-05027-5
BRUNKHORST, WILLA K. AM-09238-1
BRUNNER, DANIEL HE-04520-6
BRUNNGRABER, ERIC G. NB-05023-2
BRUNSON, JOEL G. HE-04579-5
BRUNSON, JOEL G. HE-06943-4
BRUNSON, JOEL G. HE-09311-6
BRUNST, VICTOR V CA-05579-5
BRUSH, F. ROBERT MH-03337-6
BRUSH, LUCIEN M., Jr. WP-00772-1
BRUTCHER, FREDERICK V., Jr MH-10106-1
BRUUN, PER WP-00057-4
BRUYN, HENRY B. OM-02009-1
BRYAN, EDWARD H. WP-00316-4
BRYAN, GEORGE T. AM-07616-2
BRYAN, GEORGE T. HE-09366-1
BRYANT, JOHN H. CA-05284-4
BRYANT, LESTER R. HE-08531-2
BRYANT, SHIRLEY H. NB-03178-5
BRYSON, VERNON AI-02615-6
BUBEL, HANS C. AI-03534-5
BUBLITZ, CLARK AM-05840-4
BUCHANAN, DONALD L. AM-01277-9
BUCHANAN, GEORGE D. HD-00504-5
BUCHANAN, JOHN M. CA-02015-12
BUCHANAN, ROBERT E. AI-03124-6
BUCHER, M. RUE MH-10391-1
BUCHER, NANCY L.R. CA-02146-12
BUCHI, GEORGE H. GM-09686-4
BUCHMUELLER, ALFRED D OM-00684-3
BUCHWALD, JENNIFER S. NB-05437-1
BUCHWALD, NATHANIEL A MH-07097-3
BUCK, ANNYE C. AM-08149-2
BUCKINGHAM, SUE HD-00746-3
BUCKLEW, JOHN MH-07492-2
BUCKLEY, JOSEPH J. HE-09204-1
BUCKLEY, JOSEPH P. HE-03475-7
BUCKLEY, JOSEPH P. MH-03029-7
BUCKLEY, JOSEPH P. MH-04511-5
BUCKLEY, NANCY M. HE-07648-3
BUCKLEY, RAMON D. OH-00226-1
BUCKMAN, CHARLES OM-02081-1
BUCKWALD, ALEXANDER MH-07944-2
BUCKWALTER, JOSEPH A. AM-03778-5
BUCKWALTER, JOSEPH A. GM-04777-8
BUCOVAZ, EDSEL T. AM-09131-1
BUCY, PAUL C. NB-02745-5
BUCY, PAUL C. NB-04297-3
BUCY, PAUL C. NB-06116-1
BUDDINGH, G. JOHN AI-01990-7
BUDOFF, MILTON MH-10588-1
BUEDING, ERNEST AI-03515-6
BUEDING, ERNEST HE-05268-6
BUEKER, ELMER D. HD-00162-5
BUEKER, ELMER D. NB-03979-3
BUETTNER-JANUSCH, JOHN GM-13222-1
BUGLIARELLO, GEORGE HE-05557-5
BUGLIARELLO, GEORGE WP-00415-3
BULBRING, EDITH GM-10404-3
BULLIVANT, STANLEY GM-11427-2
BULLOCK, THEODORE H. NB-00021-17
BULLOCK, WILBUR I AI-03166-5
BULMER, GLENN AI-05022-2
BUMPUS, DEAN F. FF-00693-1
BUNDY, HALLIE F. GM-07577-5
BUNGAY, HENRY R., III ES-00025-2
BUNGE, RICHARD P. NB-04235-3
BUNKER, JOHN P. GM-12527-1
BUNNELL, HARRIS F. OM-01977-1
BUNNENBERG, EDWARD GM-12173-2
BUONOCORE, MICHAEL G DE-01862-3
BURACK, WALTER R. AM-06477-3
BURBRIDGE, THOMAS N. AI-05217-2
BURBRIDGE, THOMAS N. MH-10390-1
BURCH, GOERGE E. HE-06769-3
BURCH, HELEN B. HD-00376-8
BURCHFIELD, HARRY P. GM-12722-1
BURCHINAL, JERRY C. EF-00040-3
BURCKHALTER, JOSEPH H AI-05817-2
BURCKHALTER, JOSEPH H. CA-05193-5
BURCKHALTER, JOSEPH H. HE-05915-5
BURDETTE, WALTER J. CA-03846-8
BURDETTE, WALTER J. CA-04160-6
BURDETTE, WALTER J. CA-04672-6
BURDETTE, WALTER J. HE-04537-5
BURDETTE, WALTER J. HE-04622-6
BURDETTE, WALTER J. HE-06660-4
BURDETTE, WALTER J. RH-00116-3
BURDI, ALPHONSE R. HD-00178-3
BURDOCK, EUGENE I. MH-03546-5
BURDON, KENNETH L. AI-01563-9
BURFORD, HUGH J. DE-02096-2
BURG, STANLEY P. FF-00214-5
BURGER, ALFRED NB-01445-8
BURGER, J. WENDELL GM-07458-4
BURGER, RAY E. NB-05125-2
BURGESS, EDWARD M. GM-12672-1
BURGESS, FREDERICK J. WP-00185-5
BURGESS, FREDRICK J. WP-00524-2
BURGESS, RALPH C. DE-01414-4
BURGESS, WILLIAM A. AP-00259-3
BURGISON, RAYMOND M. CA-05084-6
BURGOS, MARIO H. GM-08496-4
BURIAN, HERMANN M. NB-00349-12
BURIAN, HERMANN M. NB-04681-1
BURK, KENNETH W. MH-07112-2
BURKE, BARBARA A. HD-01406-1
BURKE, C.J. MH-08081-2
BURKE, JACK D. HE-08774-3
BURKE, JOHN F. AI-02392-7
BURKE, RUTH C. AI-06374-1
BURKE, WILLIAM NB-05556-1
BURKE, WILLIAM J. CA-07108-2
BURKE, WILLIAM T. AM-09402-1
BURKE, WILLIAM T. CA-08239-1
BURKHALTER, ALAN GM-11374-2
BURKHOLDER, PAUL R. GM-11735-2
BURKHOLDER, PETER M. HE-10065-1
BURKS, ARTHUR W GM-12216-1
BURMAN, SHELDON O HE-09393-1
BURNET, FRANK M. AI-05767-2
BURNETT, ALLISON L GM-11218-3
BURNETT, JEAN B CA-08292-1
BURNETTE, CHARLES H. HM-00420-1
BURNHAM, BRUCE F. AM-09160-1
BURNIGHT, ROBERT G MH-06127-4
BURNS, BEAURY C. CA-06434-3
BURNS, CHARLES H. RH-00245-3
BURNS, RICHARD O GM-12551-1
BURNS, ROBERT P. AI-02763-7
BURNS, ROBERT P. NB-04770-2
BURNS, VICTOR W AM-09434-1
BURNS, WILLIAM C. AI-04101-4
BURNSTEIN, THEODORE NB-04970-3
BURNSTOCK, GEOFFREY NB-02902-5
BURRELL, ROBERT G. AI-04688-3
BURRIS, ROBERT H. AI-00848-10
Burrough Bros. Pharm. Contr. CA-65-2
Burrough Wellcome Contr. GM-65-1066
BURROUGHS, A.L. AI-04681-3
BURROWS, BELTON A. HE-05571-4
BURROWS, BELTON A. HE-06658-4
BURROWS, BENJAMIN HE-04109-6
BURROWS, WILLIAM AI-02310-7
BURSTEIN, SHLOMO AM-02672-7
BURSTEIN, SHLOMO AM-07206-3
BURSTEIN, SHLOMO CA-05466-5
BURT, RICHARD L. HD-01911-5
BURTLE, JEROME G. CA-08260-1
BURTON, DONALD J. GM-11809-2
BURTON, PAUL R. AI-06448-1
BURTON, ROBERT M. NB-01975-8
BURTON, STANLEY D GM-04971-9
BURZYNSKI, NORBERT J. DE-01926-2
BUSCAGLIA, C.J. OM-01839-2
BUSCAGLIA, CHRIS J. OM-01840-1
BUSCH, DARYLE H. GM-10040-3
BUSCH, HARRIS CA-08182-1
BUSCHKE, HERMAN MH-08556-2
BUSE, JOHN F., Jr. AM-02001-8
BUSH, IAN E. GM-12551-1
BUSH, MILTON T. NB-03534-4
BUSKIRK, ELSWORTH R. AM-08311-1
BUSS, ARNOLD H. MH-05977-3
BUSS, ARNOLD H. MH-07080-3
BUSS, EDWARD G. GM-07830-5
BUSSE, EWALD W. HD-00668-8
BUTCHER, HARVEY R., Jr. HE-02569-9
BUTCHER, ROY L. HD-00982-1
BUTLER, ELMER G. CA-05488-5
BUTLER, GEORGE B. CA-06838-3
BUTLER, GRAHAM W. TW-00075-2
BUTLER, JOHN J. CH-00061-2
BUTLER, JOHN J. HE-07429-3
BUTLER, ROBERT A. NB-03815-4
BUTLER, ROBERT A. NB-04508-3
BUTLER, THOMAS C NB-00384-12
BUTT, EDWARD M. HE-00683-15
BUTTERWORTH, C.E., Jr. AM-08644-2
BUTTERWORTH, CHARLES E., Jr. CA-04508-6
BUTTIMORE, DENNIS J. OM-01767-2
BUTZEL, HENRY M., Jr. CA-02526-9
BUZINA, RATKO HE-04774-6
BYARS, EDWARD F AM-06041-4
BYBEE, JOSEPH D. AM-08421-1

BYERRUM, RICHARD U. GM-07862-5
BYERS, JOE L. MH-10201-1
BYRNE, DONN E. MH-11178-1
BYRNE, JOHN J. AM-07759-2
BYRNE, JOHN J. AM-08694-1
BYRNE, WILLIAM L. GM-06628-6
BZOCH, KENNETH R. HD-00163-6
CABRERA, GUILLERMO HE-04443-6
CADE, JAMES R AM-05712-3
CADE, THOMAS J. ES-00008-2
CADLE, RICHARD D AP-00343-2
CADMUS, ROBERT R. HM-00308-1
CADY, LEE D., Jr. CA-06675-3
CAFRUNY, EDWARD J. AM-08588-1
CAGLE, FREDRIC W., Jr. GM-12205-2
CAHILL, CHARLES L. AM-06401-3
CAHILL, GEORGE F., Jr. AM-02640-7
CAHILL, GEORGE F., Jr. AM-05493-4
CAHILL, GEORGE F., Jr. AM-08606-1
CAHILL, GEORGE F., Jr. HE-04569-6
CAIN, DENNIS F NB-05433-1
CAIRNS, JOHN CA-02809-10
CAIRNS, JOHN, Jr. FF-00266-3
CALABRESI, PAUL CA-05944-4
CALANDRA, JOSEPH C. DE-00642-8
CALANDRUCCIO, R A AM-07611-2
CALAWAY, WILSON T. WP-00508-3
CALCAGNO, PHILIP L HD-00666-3
CALDEYRO-BARCIA, ROBERTO HD-00222-4
CALDWELL, BETTYE M MH-07649-3
CALDWELL, DONALD F. HD-01336-1
CALDWELL, FRED T., Jr. GM-07151-6
CALDWELL, JOHN M. MH-11358-1
CALDWELL, ROBERT C. DE-01858-3
CALENTINE, ROBERT L. AI-06605-1
CALHOON, THOMAS B. AM-08095-3
CALHOUN, WILLIAM H. MH-11722-1
California Biochem. Contr. CA-65-643
California Dept. Mental Hygiene Contr. MH-65-653
California Univ. Contr. NB-64-892
CALISTI, LOUIS J.P. FR-05319-4
CALIVA, FRANCIS S. HE-05532-4
CALKINS, EVAN AM-05581-4
CALKINS, JOHN GM-12030-2
CALKINS, WILLARD C. FR-05521-3
CALLAHAN, WILLIAM P., III AM-06364-3
CALLICRATE, D.L OM-01902-1
CALLISON, M.K. FR-05423-4
CALLISON, MASTON K. FR-00211-1
CALLOWAY, DORIS H. RH-00373-1
CALNEK, BRUCE W. CA-06709-3
CALVERT, DEANE N. AM-07681-2
CALVERT, DEANE N. HE-07564-4
CALVERT, JACK G. AP-00131-5
CALVERT, SEYMOUR AP-00320-2
CAMBELL, GILBERT S. HE-04106-6
CAMERON H. RONALD GM-11882-2
CAMERON, J.A. AI-05341-2
CAMERSON, DALE C. OM-01732-2
CAMIEN, MERRILL AM-08523-2
CAMIN, JOSEPH H. AI-02487-8
CAMP, DAVID S. MH-11095-1
CAMPAIGNE, ERNEST E. GM-10366-3
CAMPBELL, ALLAN M. AI-02862-6
CAMPBELL, BENEDICT J. AI-04647-3
CAMPBELL, BENEDICT J. AM-04660-4
CAMPBELL, BENEDICT J. AM-08511-2
CAMPBELL, BYRON A. MH-01562-9
CAMPBELL, BYRON A. MH-08501-2
CAMPBELL, CHARLES J. NB-02667-5
CAMPBELL, CLARENCE J. NB-01639-7
CAMPBELL, CRAWFORD J. HE-08132-2
CAMPBELL, DAN H. AI-01339-8
CAMPBELL, DAN H. AI-01355-19
CAMPBELL, DAVID P. HD-01428-1
CAMPBELL, ERNEST O MH-08925-1
CAMPBELL, IRENE R. DE-01493-4
CAMPBELL, JAMES B. NB-04257-3
CAMPBELL, JAMES W. AI-05006-3
CAMPBELL, L. LEON AI-04673-4
CAMPBELL, ROBERT S. WP-00379-3
CAMPO, ROBERT D. AM-08376-2
CAMPOS, LOURDES E. AI-05655-2
CANADY, WILLIAM J. GM-08122-5
CANALE-PAROLA, ERCOLE AI-06294-1
CANARY, JOHN J. AM-06496-3
CANDAU, MARCOLINO G. AI-01717-5
CANDAU, MARCOLINO G. AI-01718-4
CANDAU, MARCOLINO G. FF-00194-5

CANDER, LEON HE-05569-5
CANDLAND, DOUGLAS K. MH-06988-2
CANELLAKIS, EVANGELE S. CA-04823-6
CANFIELD, ROBERT E GM-11246-3
CANN, JOHN R AI-01482-14
CANNON, JACK A. HE-01787-11
CANNON, JOSEPH G. AI-05133-3
CANNON, JOSEPH G. GM-10753-3
CANNON, JOSEPH G. MH-07775-2
CANNON, JOSEPH G. NB-04349-3
CANTAROW, ABRAHAM CA-07212-2
CANTIN, MARC AM-08027-2
CANTINO, EDWARD C. AI-01568-9
CANTOR, GORDON N. HD-00892-2
CANTOR, JOAN H. HD-01376-1
CANTRELL, WILLIAM F. AI-06629-1
CANTWELL, KENNETH R. DE-00914-6
CAPALDI, EGIDIO J HD-00949-3
CAPLAN, GERALD MH-03442-6
CAPLOW, MICHAEL GM-11820-2
CAPLOW, THEODORE MH-10861-1
CAPUTO, CARLO TW-00128-1
CAPUTTO, RANWEL NB-04781-3
CARABASI, RALPH A. CA-04299-8
CARAVACA TRUJILLO, JOSEFINA HE-08446-2
CARBONE, HUBERT A OM-01665-2
CARBONE, JOHN V. AM-00910-9
CARCASSI, UGO E.F. AM-07144-2
CARDOSO, SERGIO S. CA-06473-3
CARDOZO, RICHARD H. HE-05336-6
CAREK, DONALD J. OM-01045-3
CAREN, RAYMOND AM-04886-3
CAREN, RAYMOND HE-07928-4
CAREW, DAVID P. HE-05290-5
CAREY, JAMES B., Jr. AM-00713-11
CARHART, RAYMOND T. NB-01310-9
CARLSON, CHARLES W. AM-08479-1
CARLSON, CURTIS H. AM-06539-3
CARLSON, DALE A. WP-00247-3
CARLSON, ERIC T. MH-07945-2
CARLSON, FRANCIS D. GM-03723-12
CARLSON, FRANCIS D. HE-03141-8
CARLSON, LOREN D. GM-08429-4
CARLSON, WILLIAM D. AI-06239-2
CARLSON, WILLIAM D. AM-06597-3
CARLSSON, ARVID NB-04359-3
CARLSSON, ERIK HE-09213-1
CARLSSON, ERIK HE-09438-1
CARLTON, BRUCE C. GM-10739-3
CARLTON, PETER L. MH-08585-2
CARLTON, WILLIAM W. HE-08460-2
CARNEIRO, JOSE DE-02298-1
CARNELL, PAUL H. GM-10875-4
CARNES, WILLIAM H CA-05321-5
CARNES, WILLIAM H. CA-06846-3
CARNES, WILLIAM H. CA-06864-3
CARNES, WILLIAM H. HE-05609-5
CARONE, FRANK A. HE-06896-4
CARPENTER, CHARLES M. CA-06748-3
CARPENTER, ESTHER AM-05761-3
CARPENTER, FREDERICK H. AM-00608-12
CARPENTER, HARRY M. GM-10401-3
CARPENTER, MALCOLM B. NB-01538-7
CARPENTER, MALCOLM B. NB-04082-3
CARPENTER, MARY P. AM-05386-4
CARPENTER, RUSSELL L. GM-09495-4
CARPINO, LOUIS A. GM-09706-3
CARR, CHARLES W. GM-08412-5
CARR, EDWARD A., Jr. CA-06125-2
CARR, HERMAN E. AM-06719-3
CARR, HERMAN E., Jr. HE-07041-4
CARR, WILLIAM J. HD-00345-4
CARRASQUER, GASPAR AM-04618-5
CARRIER, OLIVER, Jr. HE-09391-1
CARRIERE, RITA M AM-04976-5
CARRIKER, MELBOURNE R. DE-01870-3
CARRINGTON, ELSIE R CA-07388-3
CARRINGTON, ELSIE R CA-07417-3
CARROLL, EDWARD J. MH-05433-3
CARROLL, S. CATHERINE AM-04854-5
CARROW, REXFORD E. GM-12261-1
CARRUTHERS, CHRISTOPHER CA-06107-4
CARRUTHERS, CHRISTOPHER CA-07236-2
CARSON, J. DAVID HE-09492-1
CARSON, PAUL E. HE-06078-4
CARSTEN, MARY E. HD-00010-2
CARSTENSEN, EDWIN L. GM-09933-4
CARTER, ANNE C. AM-03655-6
CARTER, ANNE C. CA-03358-9
CARTER, ANNE C. CA-03601-8
CARTER, CHARLES E. AI-06604-1
CARTER, CHARLES E. CA-08236-1

CARTER, CHARLES H. NB-04827-2
CARTER, EARL T. AM-09218-1
CARTER, HERBERT E. AI-00618-12
CARTER, HERBERT E. NB-00574-12
CARTER, HOWARD CH-00056-6
CARTER, JAMES E. HD-00628-3
CARTER, JOHN R. AM-04847-5
CARTER, MASON C. EF-00420-3
CARTER, PHIL OM-02159-1
CARTER, RODMAN D. HD-01264-3
CARTERETTE, EDWARD C. MH-07809-2
CARTON, ROBERT W. HE-07121-4
CARTWRIGHT, ANN CH-00065-2
CARUBELLI, RAUL AI-04954-3
CARVER, CHARLES E., JR. WP-00450-1
CARVER, DAVID H GM-12646-2
CARVER, MICHAEL J. HD-00361-3
CASAGRANDE, JOSEPH B MH-10095-1
CASANOVA, JOSEPH, Jr. CA-06369-4
CASE, HARRY W. AC-00015-3
CASE, HARRY W. AC-00073-5
CASE, HARRY W. AC-00219-1
CASE, JAMES F. NB-04372-4
CASE, HARRY W. AC-00157-2
CASE, NORMAN M. GM-10233-3
CASE, ROBERT B. HE-02621-9
CASIDA, JOHN E. CC-00040-5
CASIDA, JOHN E. ES-00049-1
CASIDA, JOHN E. GM-12248-2
CASKY, TIHAMER Z. NB-04640-3
CASPAR, DONALD L D. CA-04696-7
CASPARI, ERNST W. GM-12715-1
CASPI, ELIAHU AM-05326-4
CASPI, ELIAHU CA-04663-6
CASPI, ELIAHU CA-07137-3
CASSEL, JOHN GM-09923-3
CASSELL, WILFRED A. MH-08302-2
CASSIDY, HAROLD G. GM-10864-12
CASTEL, WILLIAM B. AM-00795-10
CASTELFRANCO, PAUL A. GM-07532-5
CASTEN, GUS G. CD-00054-2
CASTER, WILLIAM O. AM-08595-2
CASTER, WILLIAM O. RH-00367-2
CASTLE, EMERY N. WP-00107-3
CASTLE, RAYMOND N. CA-02653-10
CASTLE, RAYMOND N. CA-04327-7
CASTLEMAN, BENJAMIN CA-03424-8
CASTLETON, KENNETH B. FR-00064-1
CASTLETON, KENNETH B. FR-05428-4
CASTON, J. DOUGLAS HD-00038-2
CASTOR, C. WILLIAM AM-03665-6
CASTOR, LAROY N. CA-07846-2
CASTRO, ALBERT J. CA-06255-4
CASTRO, CHARLES E. AI-05139-3
CASTRO, CHARLES E. EF-00079-3
CASTRO, OLGA NB-05957-1
CASTROVIEJO, RAMON NB-05531-1
CATES, LINDLEY A., Jr. CA-06820-3
CATHCART, H. ROBERT FR-05590-1
CATLIN, B. WESLEY AI-02353-7
CATTANEO, EVERETT G. HM-00341-2
CATTELL, RAYMOND B. MH-01733-8
CATTELL, RAYMOND B. MH-10274-1
CAUGHEY, WINSLOW S HE-06079-5
CAUGHLAN, CHARLES N. GM-08395-4
CAULFIELD, JAMES B. CA-04955-6
CAUNA, NIKOLAJS NB-04147-3
CAVA, MICHAEL P CA-04498-6
CAVA, MICHAEL P. NB-04529-3
CAVALIERI, RALPH R. AM-08410-2
CAVAZOS, LARRY F. CA-07924-1
CAVAZOS, LARRY F. GM-12572-2
CAVILL, GEORGE W.K. EF-00319-3
CAWEIN, MADISON J. AM-07636-2
CAWFIS, EWING H. FR-05563-3
CAWTE, J.E. MH-11359-1
CAZIN, JOHN, Jr. AI-04612-3
CEBOLLERO, ANGELES AC-00199-2
CEBRA, JOHN J. AI-05042-3
CELANDER, DAVID R. AM-06285-4
CELANDER, DAVID R. HE-07260-4
CEMBER, HERMAN OH-00199-1
CENTER, ELIZABETH M. HD-01312-4
Center Labs. Contr. AI-65-1007
CENTIFANTO, YOLINA NB-04977-3
CEPPELLINI, RUGGERO NB-04366-3
CERECEDO, LEOPOLD R. CA-04765-7
CEREIJIDO, MARCELINO TW-00139-1
CERMAK, JACK E. AP-00091-6
CHADWICK, LEIGH E. GM-07891-5
CHAET, ALFRED B. NB-03269-3

ALPHABETICAL LISTING OF INVESTIGATORS

CHAFETZ, MORRIS E. OM-01411-2
CHAFETZ, MORRIS E. OM-01449-1
CHAGAS, CARLOS NB-01471-8
CHAI, C.K. CA-03108-9
CHAI, CHEN K. GM-05550-7
CHAI, HYMAN AI-06780-1
CHAIKOFF, I.L. NB-04908-2
CHAIKOFF, ISRAEL L. CA-00879-17
CHAIKOFF, ISRAEL L. AM-01094-18
CHAIKOFF, ISRAEL L. HE-00109-16
CHALMERS, THOMAS C. AM-07417-3
CHALMERS, THOMAS C. AM-09128-1
CHALMERS, THOMAS C. CA-07190-3
CHAMBERLAIN, JACK G. HD-01503-1
CHAMBERLIN, MICHAEL J. GM-12010-2
CHAMBERS, ALFRED H. NB-04143-3
CHAMBERS, RICHARD A. NB-03275-5
CHAMBERS, RICHARD A. NB-03907-3
CHAMBERS, ROBERT W. GM-07262-6
CHAMBERS, VELMA C. CA-05698-4
CHAMBERS, WILBERT F. NB-04808-2
CHAMBERS, WILLIAM W. NB-02540-5
CHAMOVITZ, ROBERT AM-05612-5
CHAMPE, S.P. GM-10477-3
CHAN, ASTERIA C. HD-00572-3
CHAN, SUNNEY I. GM-13212-1
CHANCE, BRITTON GM-12202-2
CHANCE, JUNE E. MH-05298-3
CHANDLER, A.B. HE-09127-1
CHANDLER, ARTHUR B. HE-03973-7
CHANG, CHIEH-CHIEN HE-08848-1
CHANG, CHU H CA-07962-1
CHANG, CHUAN-CHIUNG TW-00133-1
CHANG, FREDERIC C. CA-05011-6
CHANG, FREDERIC C. CA-06651-3
CHANG, GILBERT C.H. CA-07702-2
CHANG, JEFFERY P. CA-05312-5
CHANG, K.S. FRANCIS HD-00535-3
CHANG, M.C. GM-08167-5
CHANG, M.C. RH-00309-2
CHANG, MIN C. GM-10529-3
CHANG, PEI W. AI-04014-4
CHANG, ROBERT S. AI-04998-3
CHANG, ROBERT S. GM-12811-1
CHANG, ROBERT S. HD-00703-12
CHANG, SING C. AI-03546-5
CHANG, STEPHEN S. HE-06411-4
CHANG, STEPHEN S. HE-07610-4
CHANLEY, J.D. AM-06180-4
CHANLEY, J.D. CA-02336-11
CHANUTIN, ALFRED HE-09291-1
CHANY, CHARLES AI-02235-7
CHAO, FU-CHUAN AI-05561-2
CHAPIN, F. STUART, Jr. CH-00116-1
CHAPIN, F. STUART, Jr. FF-00407-3
CHAPLIN, HUGH C., Jr. CA-02918-9
CHAPMAN, CARLETON B. HE-06296-5
CHAPMAN, JOHN M. HE-04087-7
CHAPMAN, JOHN S. AI-04200-3
CHAPMAN, JOHN S. CC-00006-6
CHAPMAN, LOREN J. MH-07987-2
CHAPMAN, ORVILLE L. AM-07520-2
CHAPMAN, ORVILLE L. CA-04253-7
CHAPMAN, ROBERT G. HE-06125-5
CHAPMAN, ROBERT M. NB-03590-4
CHAPMAN, WARREN H. CA-03842-8
CHAPMAN, WARREN H. CA-07061-2
CHAPPLE, ELIOT D. MH-06245-3
CHARALAMPOUS, FRIXOS C. CA-02228-12
CHARALAMPOUS, KANELLOS D. MH-10777-1
CHARGAFF, ERWIN GM-07191-5
Charity Hosp. Contr. CA-64-83
CHARKEY, LOWELL W. AM-09246-1
Charles Pfizer Co. Contr. CA-61-4396
CHARLESWORTH, WILLIAM R. MH-10275-1
CHARM, STANLEY E. HE-08783-1
CHARMS, BERNARD I HE-09155-1
CHARNES, ABRAHAM EF-00355-3
CHARNES, ABRAHAM WP-00019-6
Chas. River Breeding Contr. CA-65-13
CHASE, ELIZABETH B. AM-06186-3
CHASE, HERMAN B. AI-02632-5
CHASE, HERMAN B. CA-00592-14
CHASE, MERRILL W. AI-01258-9
CHASE, ROBERT A. DE-01995-3
CHASE, ROBERT A. NB-04997-2
CHASIS, HERBERT HE-03272-8
CHASON, JACOB L. NB-02720-5
CHASSIN, JAMESON L. AM-05264-3
CHATAGNER, FERNANDE AM-07249-3
CHATRIAN, GIAN E. NB-03514-4
CHATZINOFF, ALBERT B. NB-03177-3
CHAUDHRY, ANAND P. HD-00169-3
CHAUNCEY, HOWARD H. DE-00402-9
CHAVEZ, MARGARITO N. MH-11495-1
CHAVIN, WALTER AM-04876-4
CHAVIN, WALTER AM-04910-4
CHAVIN, WALTER CA-07273-2
CHAYKIN, STERLING AM-03464-6
CHAYKIN, STERLING AM-05741-4
CHEATUM, E.L. AI-05563-2
CHEEK, DONALD B. HD-00176-2
CHEEK, DONALD B. HD-00664-3
CHEEVER, FRANCIS S. FR-05416-4
CHEIN, ISIDOR MH-09171-5
CHELDELIN, VERNON H. AM-00582-13
Chemical Abstracts Contr. CA-65-73
Chem. Abstracts Service Contr. CA-65-1021
CHEN, K.K. HE-07714-3
CHERKASKY, MARTIN FR-00053-4
CHERKASKY, MARTIN FR-05499-3
CHERKASKY, MARTIN HM-00309-1
CHERNETSKI, KENT E. MH-10730-1
CHERNIACK, NEIL S. HE-09617-1
CHERNICK, WARREN S. DE-02099-2
CHERNIN, ELI AI-00513-12
CHERNOFF, AMOZ I. AM-02956-7
CHERNOFF, AMOZ I. HE-10045-1
CHESBRO, WILLIAM R. EF-00455-2
CHESICK, JOHN P. GM-11344-2
CHESLEY, LEON C. HD-00263-11
CHESS, STELLA MH-08054-2
CHESTEEN, HILLIARD E., Jr. MH-10650-1
CHESTERS, GORDON WP-00751-1
CHEVALIER, ROBERT B. HE-08731-2
CHEW, ROBERT M. CC-00103-3
CHEW, ROBERT M. GM-08804-3
CHI, LOIS W. AI-02705-6
CHIAKULAS, JOHN J. GM-08147-5
CHIASSON, ROBERT B. AM-09203-1
Chicago Med. School Contr. CA-65-67
Chicago Park Dist. Contr. CA-65-1017
CHICHESTER, CLINTON O. AI-05868-1
CHICHESTER, CLINTON O., ES-00018-1
CHICHESTER, CLINTON O. GM-08869-4
CHICK, ERNEST W NB-05021-3
CHICKERING, ARTHUR OM-01929-1
CHIEFFI, GIOVANNI HD-01477-6
CHIEN, SHU HE-06139-5
CHIGA, MASAHIRO CA-05730-5
CHILD, CHARLES G. III HE-04260-7
CHILD, FRANK M. GM-06879-6
Childrens Cancer Research Fdn. Contr. CA-64-488
Childrens Cancer Research Fdn. Contr. CA-64-546
Childrens Hosp. Res. Fdn. Contr. AI-65-562
Childrens Hosp. of L.A. Contr. CA-64-540
Children's Hosp. of Phila. Contr. CA-64-492
CHILDS, BARTON HD-00486-10
CHILTON, NEAL W. DE-01795-3
CHILTON, WILLIAM S. GM-11966-2
CHIN, H. P. AM-08653-2
CHINARD, FRANCIS P. HE-09499-1
CHINN, HOWARD J. OM-01814-2
CHINO, HARUO TW-00174-1
CHIPAULT, JACQUES R. AM-07243-3
CHIPAULT, JACQUES R. AM-09337-1
CHIPAULT, JACQUES R. RH-00358-1
CHIPMAN, ROBERT K HD-01141-1
CHIQUOINE, A. DUNCAN HD-01050-1
CHISOLM, J. JULIAN, Jr. OH-00047-12
CHITANONDH, HATAI AI-05677-2
CHITTICK, RUPERT A. OM-02037-1
CHMURA, NORMAN W. GM-13561-1
CHO, MIN-HAING NB-03809-4
CHO, YOUNG W. HE-09016-3
CHOPE, HAROLD D. OM-01469-2
CHOPE, HAROLD D. OM-02012-1
CHOPPIN, PURNELL W. AI-05600-3
CHOPRA, JOGINDER E. AM-07510-2
CHOROVER, STEPHAN L. MH-07923-2
CHOSY, JULIUS J. MH-10560-1
CHOVNICK, ARTHUR GM-09886-4
CHOW, BACON F. AM-05004-4
CHOW, BACON F. HD-00436-3
CHOW, BACON F. HD-00475-6
CHOW, BACON F. HD-00738-7
CHOW, BACON F. HD-01108-1
CHOW, BACON F. HD-01300-1
CHOW, KAO L. NB-03816-5
CHOWN, BRUCE HD-00265-8
CHRISTENSEN, A. KENT HD-01512-1
CHRISTENSEN, HALVOR N. HD-01233-10
CHRISTENSEN, JAMES J. GM-09430-4
CHRISTENSEN, JAMES R. AI-02781-6
CHRISTENSEN, ROBERT E. NB-03576-4
CHRISTENSEN, SOREN C. HE-08263-2
CHRISTENSON, DAVID A. AM-08202-2
CHRISTIAN, CHARLES L. AM-04866-5
CHRISTIAN, JOHN E. RH-00211-2
CHRISTIAN, JOHN J. GM-10530-3
CHRISTIAN, ROBERT T. HD-00863-2
CHRISTIANSEN, PHILIP A. AM-05902-4
CHRISTIANSEN, PHILIP A. AM-05932-4
CHRISTMAN, RUSSELL F. WP-00558-2
CHRISTY, NICHOLAS P. AM-04035-6
CHU, EDITH J.H. AM-01000-15
CHU, JOHN T. GM-12869-1
CHUNG, ALBERT E. AI-06663-1
CHUNG, ANTHONY C. HE-09067-2
CHUNG, RONALD A. AM-08364-1
CHUN-HOON, HARRY C.F. AI-05784-2
CHURCH, BROOKS D. AI-06574-1
CHURCH, RUSSELL M. MH-08123-2
CHURG, JACOB AM-00918-10
CHURNEY, LEON HE-08271-2
CHYNN, KUO Y. HE-09132-1
CICALA, GEORGE A. HD-00698-4
Cincinnati Univ. Contr. CA-64-45
CINTRON-RIVERA, A.A. AI-04408-3
CINTRON-RIVERA, A.A. AM-04903-4
CINTRON-RIVERA, A. A. GM-11931-2
CIRILLO, VINCENT P. GM-12743-1
CISIN, IRA H. MH-09180-3
City of Hope Contr. CA-65-1036
City Hosp. Contr. CA-65-40
CIVEN, MORTON AM-08338-2
CLAMAN, HENRY N. AM-07529-2
CLANCY, CLARENCE W. GM-09802-3
CLAPP, JAMES R. AM-07420-3
CLAPP, LEALLYN B. CA-07521-2
CLARK, ALVIN J. AI-05371-3
CLARK, ARNOLD M. GM-07607-5
CLARK, FOGLE C. MH-04335-6
CLARK, FOGLE C. MH-05863-4
CLARK, H. FRED AI-06227-2
CLARK, HELEN F. AM-08533-1
CLARK, HAROLD W. AI-04071-4
CLARK, IRWIN AM-04071-6
CLARK, JAMES B. AI-03923-3
CLARK, JOHN M., Jr. GM-08647-4
CLARK, JOHN W. WP-00631-1
CLARK, KENNETH B. OM-00830-4
CLARK, LELAND C. Jr. HE-03109-9
CLARK, LINCOLN D. MH-05739-4
CLARK, MARLYN E. HE-08330-2
CLARK, MERVIN L. MH-04260-5
CLARK, R. LEE CA-02620-10
CLARK, R. LEE CA-05831-4
CLARK, R. LEE FR-05511-3
CLARK, RICHARD F. HE-08655-2
CLARK, ROBERT T. HD-00655-2
CLARK, SAM L., Jr. GM-07176-5
CLARK, THOMAS W. CD-00038-2
CLARK, WALLACE H., Jr. CA-06221-4
CLARK, WESLEY G. AI-05963-2
CLARK, WILLIAM A. AI-01534-9
CLARK, WILLIAM A. CA-08122-1
CLARK, WILLIAM A. FR-00117-2
CLARK, WILLIAM G. MH-03663-6
CLARK, WILLIAM K. NB-04149-3
CLARKE, DONALD D. GM-12882-1
CLARKE, GEORGE A. GM-11752-2
CLARKE, MIRIAM F. AM-03144-3
Clarke Sch. for Deaf Contr. NB-62-852
CLARKE, WILBUR B. AI-05661-2
CLARKSON, THOMAS B. FR-00180-1
CLARKSON, THOMAS B. FR-00236-1
CLARKSON, THOMAS B. HE-04722-6
CLASEN, RAYMOND A. NB-03677-4
CLATANOFF, DALLAS V. HE-09620-1

CLAUSEN, JOHN A. MH-05300-4
CLAUSEN, JOHN A. MH-08135-2
CLAUSEN, JORGEN NB-05216-2
CLAUSS, ROY H. HE-09583-1
CLAYBROOK, JAMES R. AM-08950-1
CLAYCOMB, CECIL K. DE-01908-3
CLAYTON, EVERETT M., Jr. HD-00050-2
CLAYTON, FRANCES E. GM-11042-4
CLAYTON, GEORGE W. AM-03536-6
CLAYTON, KEITH N. HD-00924-4
CLAYTON, RAYMOND B. GM-12493-1
CLAYTON, RAYMOND B. HD-00801-2
CLEASBY, GILBERT W. NB-04684-3
CLEGG, JOHN A. AI-04707-3
CLEGG, JAMES S. GM-10673-3
CLEGG, MOSES T. NB-03977-8
CLELAND, ROBERT E. GM-12881-1
CLELAND, ROBERT L. GM-08113-5
CLELAND, WILLIAM W. HF-05095-6
CLEMENS, HOWARD P. AM-03445-6
CLEMENT, GERALD E. GM-12022-2
CLEMENTE, CARMINE D. MH-07037-3
CLEMENTE, CARMINE D. MH-10083-1
CLEMENTE, CARMINE D. NB-01065-9
CLEMENTE, CARMINE D. NB-04726-2
CLEMMER, DOROTHY I. AI-04294-4
CLEMMESEN, JOHANNES CA-03087-9
CLEMMONS, JACKSON J.W. [illegible]-07314-3
CLENDENNING, WILLIAM E. CA-07299-2
CLEVELAND, LEMUEL R. AI-05275-4
CLEVELAND, LEMUEL R. AI-05276-3
CLEVELAND, WILLIAM W. AM-04431-5
CLIFFORD, STEWART H. NB-02372-8
CLIFFTON, EUGENE E. CA-07406-2
CLIFFTON, EUGENE E. HE-02867-9
CLIFFTON, EUGENE E. HF-04211-6
CLIFTON, JAMES A. AM-02534-7
CLIFTON, JAMES A. AM-08901-1
CLINE, MARTIN J CA-07723-1
CLINE, VICTOR B. MH-08816-1
CLIVER, DEAN O. FF-00440-3
CLONEY, RICHARD A. GM-09936-4
CLOSE, JOHN R. NB-02300-6
CLOSS, GERHARD L. AM-08534-2
CLOUET, DORIS H. MH-10761-1
CLOUTIER, ELMER J. ES-00022-2
CLOWARD, RICHARD A. OM-01178-4
CLUFF, LEIGHTON E. AI-05780-2
CLYDE, DEAN J. MH-07285-3
CLYNES, MANFRED E. NB-02470-6
COATS, EDWIN A. OM-01685-1
COBB, JEWEL P. CA-05426-5
COBB, KATHERINE HD-00319-6
COBB, LEONARD A., Jr. HF-07478-3
COBB, SIDNEY AM-06928-2
COBB, SIDNEY CD-00102-1
COBB, STANLEY NB-03429-4
COBEN, LAWRENCE A. NB-04296-3
COCHIN, JOSEPH MH-07230-3
COCHRAN, BURT, Jr. AM-08620-1
COCHRAN, DONALD G. AI-02067-8
COCHRAN, DONALD G. ES-00102-7
COCHRAN, GEORGE W. AI-03690-4
COCHRAN, TERENCE H. AM-08226-2
COCHRANE, CHARLES G. AI-05982-2
COCKERHAM, C. CLARK GM-11546-2
CODE, CHARLES F. AM-02015-7
CODE, CHARLES F. AM-02827-7
CODE, CHARLES F. AM-04391-5
COE, ELMON L. GM-11580-2
COE, JOHN E. NB-05675-1
COETZEE, JOHANNES F. GM-10695-3
COFFMAN, JAY D. HF-07943-2
COFFMAN, JAY D. HE-08536-2
COGAN, DAVID G. HF-04051-7
COGAN, DAVID G. NB-02698-5
COGAN, DAVID G. NB-03015-5
COHEN, ADOLPH I. NB-04816-2
COHEN, ALAN S. AM-04599-5
COHEN, BENNETT J. FR-00200-1
COHEN, BERNICE H. CD-00043-2
COHEN, BERNICE H. HE-06023-4
COHEN, BURTON H. MH-07095-3
COHEN, CARL GM-10444-4
COHEN, CAROLYN AM-02633-7
COHEN, EDWARD P. AI-03978-4
COHEN, EDWARD P. AI-06851-1
COHEN, ELIAS HE-07728-3
COHEN, FELIX OM-01167-3
COHEN, FLOSSIE HD-00505-6
COHEN, GERALD HF-01045-14
COHEN, HAROLD P. NB-05223-1

COHEN, IRVIN J. FR-05497-3
COHEN, IRVING GM-10845-7
COHEN, JACOB MH-06137-4
COHEN, JEROME NB-04226-2
COHEN, JEROME OM-01631-1
COHEN, JONATHAN HD-00465-11
COHEN, JOZEF MH-08922-2
COHEN, JULES HF-07951-2
COHEN, JULIUS J. AM-03602-6
COHEN, LEONARD A. MH-05823-4
COHEN, LUCY M. MH-08962-1
COHEN, MAYNARD M. NB-05020-2
COHEN, MAYNARD M. NB-05203-3
COHEN, MELVIN J. NB-01624-8
COHEN, MORTON I. NB-03970-4
COHEN, NATHANIEL AM-08051-2
COHEN, PHILIP P. CA-03571-8
COHEN, SASSON CA-06996-3
COHEN, SAUL G. GM-04584-9
COHEN, SAUL G. GM-13183-1
COHEN, SEYMOUR AM-09359-1
COHEN, SEYMOUR S. AI-03963-4
COHEN, SIDNEY AI-02457-7
COHEN, SIDNEY AI-03549-5
COHEN, STANLEY HD-00700-2
COHEN, THEODORE AM-06419-3
COHLAN, SIDNEY O. HD-00187-12
COHN, CLARENCE AM-00193-13
COHN, CLARENCE AM-05686-4
COHN, DAVID V. DE-01523-5
COHN, GEORGE L. AM-04783-5
COHN, ISIDORE, Jr. AI-00524-12
COHN, ISIDORE, Jr. AI-01600-8
COHN, JEROME E. HE08932-2
COHN, JESS V. OM-02072-1
COHN, MAURICE L. AI-03455-6
COHN, MAURICE L. FR-05474-3
COHN, MELVIN AI-05875-2
COHN, MILDRED GM-12446-1
COHN, ROY B. HE-02278-9
COHN, SIDNEY A. DE-00738-7
COHN, VICTOR H. AM-06959-3
COIL, WILLIAM H. AI-05123-4
COIL, WILLIAM H. AI-05145-3
COIL, WILLIAM H. GM-12587-1
COKE, JAMES L. HE-07050-4
COKE, JAMES L. HE-07967-2
COLAS, ANTONIO E. HD-00711-2
COLBY, BENJAMIN N. MH-08854-2
COLBY, KENNETH M. MH-06645-4
COLCHER, HENRY AM-05958-4
COLE, C.L. AM-06721-3
COLE, HAROLD H. AM-06893-3
COLE, JACK R. CA-05076-4
COLE, MICHAEL MH-11180-1
COLE, MONROE NB-05865-1
COLE, R. DAVID AM-06482-3
COLE, ROGER D. AM-02691-7
COLE, THOMAS A. GM-11860-2
COLE, W.V. FR-05438-4
COLE, WARREN H. CA-03482-8
COLE, WARREN H. CA-09594-7
COLEBROOK, L.D. GM-12468-1
COLEMAN, D. JACKSON NB-05181-1
COLEMAN, DOUGLAS L. AM-06871-3
COLEMAN, DOUGLAS L. CA-05873-4
COLEMAN, JOHN R. HD-00047-2
COLEMAN, JOSEPH E. AM-09070-1
COLEMAN, JULES V. OM-00395-5
COLEMAN, PAUL D. NB-04239-3
COLEMAN, RONALD L. HD-00136-10
COLEMAN, RUSSELL D. HD-00151-8
COLEMAN, SHERMAN S. AM-05049-5
COLEMAN, WILLIAM GM-12501-1
COLES, EMBERT H. AM-05082-4
COLES, EMBERT H. CC-00068-6
COLGAN, FRANK J. HE-09609-1
Collaborative Res. Contr. CA-62-184

COLLARD, EARL W. DH-00050-1
COLLAT, JUSTIN W. GM-11751-1
COLLENS, WILLIAM S. HE-08140-2
COLLIER, GEORGE H. HD-00941-3
COLLIER, GEORGE H. MH-10252-1
COLLIER, JACK R. AM-08316-2
COLLIER, JOHN R. AI-05481-2
COLLIER, ROBERT E. AI-03590-5
COLLINS, CARTER C. NB-04669-3
COLLINS, EDWIN B. FF-00138-4
COLLINS, GEORGE H. NB-04494-3
COLLINS, MARY E. MH-08158-2
COLLINS, RALPH P. WP-00005-4

COLLINS, ROBERT D. AM-03408-6
COLLINS, WILLIAM F. NR-05081-2
COLLIPP, P.J. AM-04235-6
COLLIPP, PLATON J. HD-01501-1
COLLITO, MICHAEL B. DE-01418-3
COLLMAN, JAMES P GM-08350-5
COLMER, ARTHUR R. WP-00549-3
COLODZIN, MARTIN NB-05912-1
COLOMBOTOS, JOHN L. CH-00045-3
Colorado State Univ. Contr. CA-65-988
Colorado Univ. Med. Cr. Contr. AI-62-477
COLOWICK, SIDNEY P AM-03914-7
COLOWICK, SIDNEY P. CA-04910-6
COLSKY, JACOB CA-02822-10
COLTER, ALLAN K. GM-11967-2
COLTER, JOHN S. AI-04728-3
Columbia Univ. Contr. CA-63-82
Columbia Univ. Contr. CA-64-866
Columbia Univ. Contr. MH-65-649
Columbia Univ. Contr. NB-63-46
COLVIN, RALPH W. HD-00885-4
COLVIN, RALPH W. MH-02985-5
COLWELL, JOHN A. AM-05871-4
COLWIN, ARTHUR L. HD-00007-9
COMAN, DALE R. CA-03562-8
COMB, DONALD G. GM-12632-2
COMBES, BURTON HE-03439-8
COMBS, C. MURPHY NB-02706-5
COMBS, GERALD F. AM-08224-2
COMIN, JORGE GM-11994-2
COMMON, ROBERT H. AM-06130-3
COMMONER, BARRY CA-03983-8
Commonwealth Science Contr. CA-64-522
Computers for Ind. Contr. NB-64-870
COMROE, JULIUS H., Jr. HE-06285-5
CONCANNON, JOSEPH P. CA-07926-1
CONCANNON, JOSEPH P. HE-08687-1
CONCANNON, JOSEPH P. HE-08942-1
CONDOURIS, GEORGE A. NB-01582-8
CONEL, J. LeROY HD-00323-17
CONGER, ALAN D. CA-08231-1
CONGER, JOHN J. FR-05357-4
CONGER, JOHN J. MH-03040-6
CONIGLIO, JOHN G. AM-06483-3
CONKLIN, JAMES L. HD-00557-4
CONLEY, C. LOCKARD AM-08782-1
CONLEY, C. LOCKARD HE-01601-17
CONLEY, CARROLL L. HE-02799-9
CONLEY, ROBERT T. NB-03628-4
CONN, ERIC E GM-05301-8
CONN, JEROME W. AM-00888-10
CONN, REX B., Jr. AM-09372-1
Connecticut Dept. Mental Health Contr. CA-63-1148
Connecticut Dept. Mental Hlth. Contr. MH-65-72
Connecticut Dept. Mental Health Contr. MH-65-650
Connecticut Univ. Contr. CA-62-505
CONNELLY, JERALD L. GM-13080-1
CONNER, GABEL H. CA-07839-1
CONNER, ROBERT L. AI-01065-9
CONNERY, ROBERT H. MH-09186-2
CONNOLLY, JOHN E. HE-03805-6
CONNOR, ANGIE OM-01679-2
CONNOR, ANGIE OM-02051-1
CONNOR, THOMAS B. FR-00033-5
CONNOR, WILLIAM E. HE-07239-4
CONNORS, KENNETH A. GM-11136-3
CONOVER, JOHN T. WP-00755-1
CONRAD, H. EDWARD AI-05696-2
CONRAD, HARRY R. FF-00302-3
CONRAD, LOYAL L. HF-07787-3
CONROW, KENNETH GM-11013-3
CONSIGLI, RICHARD A. CA-07139-3
CONSTANT, MARGUERITE A. NB-01375-8
CONSTANTINE, HERBERT AP-00402-1
CONTE, FRANK P. RH-00246-2
CONTI, SAMUEL F. GM-08565-5
CONTOPOULOS, ALEXANDER N HD-00476-8
CONVERSE, PHILIP E. MH-10809-1
CONWAY, EDWARD J. HF-04860-6
CONWAY, GENE F. HE-08105-2

ALPHABETICAL LISTING OF INVESTIGATORS

CONWAY, HERBERT GM-04554-8
CONWAY, JAMES F. CD-00081-2
CONWAY, JAMES F. HE-07764-3
CONWAY, LOUIS W. CA-08281-1
CONZELMAN, GAYLORD M., Jr. CA-07369-3
COOGAN, RICHARD OM-01799-2
COOK, ALBERT W. NB-04937-2
COOK, CHARLES D. FR-00125-2
COOK, CHARLES D. HD-00989-2
COOK, CLINTON D. GM-10985-2
COOK, JAMES R. GM-12179-2
COOK, SHERBURNE F. HD-00160-5
COOKE, ROBERT E. AM-06278-3
COOKE, ROBERT E. NB-02371-8
COOKE, W. DONALD ES-00066-1
COOLIDGE, THOMAS B. DE-01747-3
COOLIDGE, THOMAS B. DE-01992-2
COOMBS, CLYDE H. MH-04236-5
COOMBS, R.R.A. AI-03348-6
COON, JULIUS M. CC-00042-8
COON, MINOR J. AM-03214-6
COON, MINOR J. AM-04769-5
COON, WILLIAM W. AM-06140-3
COONEY, JOSEPH J. AI-05421-2
COONS, ALBERT H. AI-05691-10
COOPER, CECIL GM-05302-8
COOPER, CECIL GM-10446-2
COOPER, DAVID Y. AM-04484-5
COOPER, EDWIN L. AM-09030-1
COOPER, FRANKLIN S. DE-01774-3
COOPER, FRANKLIN S. FR-05596-1
COOPER, HERBERT K. DE-02172-1
COOPER, JACK ROSS NB-05121-1
COOPER, LESLIE M. MH-11165-1
COOPER, MERLIN L. CC-00083-4
COOPER, TALBERT CA-04646-6
COOPER, THEODORE HE-06762-4
COOPER, WILLIAM A., Jr. HE-04062-5
COOPERMAN, PHILIP AP-00307-2
COOPERMAN, PHILIP ES-00110-1
COOPERSTEIN, SHERWIN J. AM-09059-2
COPE, ARTHUR C. AI-02241-7
COPE, OLIVER AM-01849-8
COPE, OLIVER HE-06283-5
COPELAND, D. EUGENE GM-04836-6
COPENHAVER, JOHN H. HD-01421-1
COPENHAVER, JOHN H., Jr. HE-01639-12
COPENHAVER, RICHARD M. NB-04896-2
COPENHAVER, WILFRED M. HE-03252-8
COPENHAVER, WILFRED M. HE-06465-4
COPLEY, ALFRED L. HE-04793-5
COPPERMAN, REUBEN AM-08869-1
COPPOLA, EDWARD D. AM-07886-2
CORBETT, M. KENNETH AI-03148-6
CORBIT, JOHN D. CA-07416-2
CORCORAN, ARTHUR C. HE-04980-5
CORCORAN, JOHN W. AI-04481-4
CORCORAN, WILLIAM H. AP-00265-3
CORCOS, JOSUE AM-09270-1
CORDAY, ELIOT HE-08156-3
CORDAY, ELIOT HE-09145-1
CORDELL, ALFRED R. HE-06504-3
CORDEN, MALCOLM E. EF-00110-4
CORDES, EUGENE H. AM-08232-2
Cordis Corp. Contr. DBS-65-98
CORDONNIER, JUSTIN J. CA-09673-6
CORDONNIER, JUSTIN J. HD-00861-3
COREY, ARTHUR T. WP-00349-2
COREY, E.J. AI-05669-2
COREY, ROBERT B. GM-12986-1
COREY, ROBERT B. HE-02143-12
CORI, CARL F. AM-04830-3
CORIELL, LEWIS L. CA-04953-6
CORMAN, HARVEY H. MH-04464-3
CORN, MILTON AM-09301-1
CORN, MILTON HE-08863-1
CORN, MORTON AP-00191-3
CORN, MORTON AP-00302-2
CORN, MORTON AP-00431-1
CORNBLATH, MARVIN AM-06015-5
CORNBLATH, MARVIN HD-00235-4
CORNELIUS, CHARLES E. AM-03296-6
Cornell Univ. Contr. CA-65-620
CORNISH, HERBERT H. GM-12854-1
CORNISH, HERBERT H. MH-03692-6
CORNISH, HERBERT H. OH-00028-4
CORNISH, HERBERT H. OH-00099-4
CORNSWEET, TOM N. NB-03412-4
CORNWELL, DAVID G. AM-06468-3
CORNWELL, DAVID G. GM-09506-4
CORREA, PELAYO AM-05783-3
CORRELL, DONOVAN WP-00685-1
CORRELL, JAMES W. HE-07609-3
CORRELL, JAMES W. NB-03581-3
CORRIGAN, JOHN J. GM-12161-2
CORSON, SAMUEL A. NB-04769-2
CORSON, SAMUEL A. NB-05006-2
CORTES, JULIO M. AM-09295-1
CORTNER, JEAN A. CA-07918-1
CORTNEY, MARSHALL A. AM-09323-1
CORWIN, ALSOPH H. AM-02877-7
CORWIN, ALSOPH H. GM-11159-3
CORWIN, ALSOPH H. GM-06691-6
CORWIN, ALSOPH H. HE-07496-3
CORY, LAWRENCE, BROTHER ES-00078-1
COSBY, RICHARD S. HE-08316-1
COSBY, RICHARD S. HE-09298-1
COSEBZA, BENJAMIN J. AI-00706-12
COSER, ROSE L. MH-03534-5
COSGROVE, WILLIAM B AI-02701-6
COSGROVE, WILLIAM B. GM-12734-1
COSTA, GIOVANNI CA-07051-2
Costa Rica Univ. Contr. CA-64-31
COSTELLO, DONALD P. CA-04662-3
COSTELLO, LESLIE C. AM-06442-3
COSTLOW, JOHN D., Jr. HD-00078-2
COTRAN, RAMZI S. HE-08251-2
COTTER, JULIAN R. HD-01379-1
COTTERILL, OWEN J. EF-00491-2
COTTON, ERNEST K. HE-08449-2
COTTON, F. ALBERT GM-07445-5
COTTON, MARION de V. HF-06820-4
COUCH, JOHN N. AI-03235-5
COULSON, ROLAND A. HE-02062-11
COULT, ALLAN D. GM-11845-1
COULTER, NORMAN A., Jr. HE-10062-1
COULTER, NORMAN A., Jr. HE-10063-1
COULTER, NORMAN A., Jr. HE-10064-1
COULTER, NORMAN A., JR. NB-02580-6
COULTER, PEARL P. NU-00139-1
COUNIHAN, DONALD T. NB-04215-3
COUNIHAN, DONALD T. NB-04216-2
COURSIN, DAVID B. AM-08366-2
COURSIN, DAVID B. NB-04490-3
COURSIN, DAVID B. NB-05789-1
COURVILLE, CYRIL B. NB-03601-4
COUTSOGEORGOPOULOS, CHARALAM GM-12276-1
COVELL, WALTER P. NB-01791-7
COVIELLO, DOMINICK A. RH-00293-2
COWAN, DONALD W. AP-00090-7
COWAN, FREDERICK F. HE-08680-2
COWAN, PHILIP A MH-10627-1
COWAN, THADDEUS M. MH-11279-1
COWDEN, RONALD R. HD-01499-4
COWEN, DAVID L. LM-00015-1
COWEN, EMORY L. OM-01500-1
COWGER, MARILYN L. AM-09146-1
COWGILL, DAVID M. AP-00029-4
COWGILL, ROBERT W. GM-10515-3
COWLEY, ALAN H GM-12437-1
COWLEY, R. ADAMS GM-10723-3
COWLEY, R. ADAMS HE-04595-6
COWLEY, R. ADAMS HE-07898-3
COX, CHARLES D. AI-05440-2
COX, DAVID J. GM-11749-2
COX, JEROME R., Jr. FR-00161-1
COYE, ROBERT D HF-08070-2
COZZETTO, FRANK J. AM-05693-4
CRABTREE, JAMES A. FR-05451-4
CRADDOCK, CHARLES G. CA-07169-2
CRAFTS, ROGER C. AM-00476-11
CRAIG, ALBERT B. HE-09676-1
CRAIG, GEORGE B., Jr. AI-02753-6
CRAIG, JAMES V. GM-11435-2
CRAIG, JAMES W. AM-07656-2
CRAIG, JOHN C. HE-05881-5
CRAIG, JOHN C. MH-10450-1
CRAIG, JOHN CYMERMAN MH-04582-5
CRAIG, JOHN M. HD-00144-6
CRAIG, JOHN M. HD-01172-4
CRAIG, JOHN P. AI-05949-1
CRAIG, LYMAN C. AM-02493-7
CRAIGHEAD, JOHN E. AI-05494-2
CRAIGHEAD, JOHN E. AI-06481-1
CRAIN, STANLEY M. NB-03814-4
CRAM, DONALD J. GM-12640-1
CRAMBLETT, HENRY G. AI-06270-1
CRAMBLETT, HENRY G. AM-08691-2
CRAMBLETT, HENRY G. NB-05409-1
CRAMER, LESTER M. AM-07966-1
CRAMPTON, JOSEPH H. AM-07854-2
CRANDALL, DANA I. GM-03193-13
CRANDALL, JACK K. GM-12860-1
CRANDALL, RICHARD B. AI-05345-3
CRANDALL, VIRGINIA C. MH-02238-7
CRANE, FREDERICK L. AM-04663-5
CRANE, FREDERICK L. GM-10741-3
CRANE, FREDERICK L. GM-08025-5
CRANE, MILTON G. HE-04745-6
CRANE, ROBERT K. AM-08962-1
CRANE, ROBERT K. GM-09224-4
CRANEFIELD, PAUL F. HD-01198-2
CRATTY, BRYANT J. NB-05577-1
CRAVEN, BRYAN M. NB-02763-5
CRAWFORD, BRUCE FR-05528-3
CRAWFORD, BRYCE L. ES-00069-1
CRAWFORD, E. STANLEY HE-04763-6
CRAWFORD, JOHN D. HD-00243-11
CRAWFORD, HARRY D. HE-06632-3
CRAWFORD, RICHARD B. HD-00519-5
CRAYTHORNE, NORMAN W.B. HE-06151-4
CRAYTHORNE, NORMAN W.B. HE-09096-1
CRAYTOR, JOSEPHINE K. NU-00120-2
CREDITOR, MORTON C. HE-08862-2
CREE, EDNA M. HE-07399-3
CREECH, HUGH J. CA-02975-9
CREECH, HUGH J. CA-09247-13
CREECH, OSCAR, Jr. CA-03782-8
CREECH, OSCAR, Jr. HE-02826-9
CREECH, OSCAR, Jr. HF-05688-5
CREECH, OSCAR, Jr. HE-09178-1
CREEK, RICHARD D. AM-06819-2
CREEVY, C.D. CA-05538-4
CREGER, CLARENCE R RH-00354-1
Creighton Univ. Contr. CA-65-27
CRELIN, EDMUND S. GM-04433-10
CREMER, SHELDON E. CA-07806-2
CRENSHAW, JOHN W., Jr. GM-10914-4
CRESCITELLI, FREDERICK NB-01509-7
CREVASSE, LAMAR HE-07190-4
CRIBBS, RICHARD M. GM-11098-2
CRIDDLE, RICHARD S. GM-10017-3
CRIGLER, JOHN F., Jr. AM-03164-6
CRIGLER, JOHN F., Jr. AM-08365-1
CRIGLER, JOHN F., Jr. FR-00128-1
CRISPELL, KENNETH R. FR-05431-4
CRISPENS, CHARLES G., Jr. CA-05742-5
CRISSEY, JOHN T. CA-08345-1
CRIST, ROBERT L. MH-11776-1
CRISTOL, STANLEY J. GM-12139-2
CRITCHLOW, B. VAUGHN AM-03385-6
CRITZ, JERRY B. AM-06154-3
CROCKER, T. TIMOTHY CA-08192-1
CROCKER, THOMAS D. AP-00389-1
CROCKETT, J.R. HD-00713-2
CROMARTIE, WILLIAM J. AI-05844-2
CROMBIE, DONALD L. CD-00058-2
CROMWELL, NORMAN H. CA-02931-9
CROMWELL, RUE L. MH-09220-1
CRONKHITE, LEONARD W., Jr. FR-05482-3
CRONLY-DILLON, JOHN R. NB-05992-1
CRONSHAW, JAMES GM-13624-1
CRONYN, MARSHALL W GM-11142-3
CROOG, SYDNEY H. CH-00029-3
CROPP, GERALD J. HE-09429-1
CROPPER, WILLIAM H. GM-11411-2
CROSBY, EDWIN J. AP-00421-1
CROSS, BARRY A. NB-05411-1
CROSS, EARLE A., Jr. AI-05657-2
CROSS, FREDERICK S. HE-08305-2
CROSSAN, D.F. AP-00403-1
CROSSLEY, MOSES L. CA-03473-8
CROTHERS, DONALD M. GM-12589-1
CROUNSE, ROBERT G. AM-09182-1
CROUSE, GAIL S. NB-04361-3
CROUT, J. RICHARD AM-07704-2
CROW, JAMES F. FR-05435-4
CROW, JAMES F. GM-07666-5
CROW, JAMES F. GM-08217-5
CROWDER, THORA H. MH-08124-1
CROWDER, WILLIAM F. MH-10026-1
CROWE, R.R. OM-01754-1
CROWELL, DAVID H. HD-00869-3
CROWELL, JACK W. HE-02494-9
CROWELL, RICHARD L. AI-03771-5
CROWELL, RICHARD L. AI-05769-2
CROWELL, SEARS GM-11555-2
CROWLE, ALFRED J. AI-02689-6
CRUE, BENJAMIN L., Jr. NB-03472-3
CRUISE, MARY O. HD-00434-4
CRUMP, MALCOLM H. EF-00749-1
CRUMP, E. PERRY HD-00461-12

CRUZ, WALTER O. HE-08504-2
CRYSTAL, DEAN K. HE-09576-1
CSAKY, T.Z. GM-09825-5
CSAPO, ARPAD I. HD-01416-1
CSAPO, ARPAD I. HD-01478-1
CUBA, ALBERTO CA-05500-3
CUCCIA, CARLO A. CA-06979-3
CUENCA, EDUARDO TW-00121-1
CUGELL, DAVID W. HE-08968-1
CULBERSON, CHICITA F. GM-08345-5
CULBERTSON, JAMES W. HE-05684-4
CULLEY, WILLIAM J. HD-00088-2
CULLIMORE, LLOYD L. OM-00788-3
CULVER, CHARLES M. NU-00085-2
CUMMING, JOHN H. MH-09204-2
CUMMING, MARGARET E. MH-04735-4
CUMMING, WILLIAM W. MH-10384-1
CUMMINGS, DONALD J. AI-06472-1
CUMMINS, JAMES F. CH-00093-1
CUMMINS, KENNETH WILLIAM WP-00525-2
CUNNINGHAM, ALASTAIR W.B. NB-05462-2
CUNNINGHAM, CHARLES H. AI-05549-3
CUNNINGHAM, GEORGE C. AM-07655-2
CUNNINGHAM, LEON W. CA-03640-8
CUNNINGHAM, RUSSELL D. HD-01132-1
CUPPS, PERRY T. HD-00704-2
CURBY, WILLIAM A. GM-11545-2
CURETON, THOMAS K., Jr. GM-12166-2
CURI, FLROY A FF-00639-1
CURNEN, EDWARD C., Jr. AI-04130-4
CURPHEY, THOMAS J. GM-12890-1
CURRAN, DAVID J. GM-12284-1
CURRAN, PETER F. AM-06540-3
CURRAN, WILLIAM J. OM-01987-1
CURRERI, ANTHONY R. CA-06071-4
CURRY, HIRAM B. NB-04766-2
CURT, JOSE N. FR-05452-4
CURTIS, ARTHUR C. GM-04413-10
CURTIS, DAVID R. NB-05774-1
CURTIS, GEORGE C. MH-08806-2
CURTIS, GEORGE W. AM-07058-3
CURTIS, JOSEPH C. AM-08485-3
CURTIS, RICHARD F. MH-10991-1
CURTIS, ROBIN L. NB-02402-7
CURTIS, ROBIN L. NB-03126-5
CURTIS, ROBIN L. NB-03508-4
CURTISS, PAUL H., Jr. AM-09711-1
CUSSLER, MARGARET T. OH-00041-1
CUTHBERTSON, ELIZABETH M. HE-07102-3
CUTLER, R F AM-08593-1
CUTT, ROGER A. NB-04627-3
Cutter Laboratories Contr. CA-65-11
CUTTING, WINDSOR C. AI-06453-1
CUTTING, WINDSOR C. FR-00247-1
CUTTING, WINDSOR C. GM-09228-4
CUTTING, WINDSOR C. HD-01340-2
CYNKIN, MORRIS A. AI-03586-5
CZAKY, T.Z. NB-03895-3
DABNEY, JOE M. CA-07116-2
DACHI, STEPHEN F. CA-07490-2
DACHI, STEPHEN F. DE-02074-2
DACHOWSKI, LAWRENCE W MH-08495-2
DACSO, MICHAEL M. CO-00031-8
D'ADAMO, AMEDEO F., Jr. NB-04903-2
DAESCHNER, C.W., Jr. HE-07844-3
DAGG, CHARLES P. HD-00473-9
D'AGOSTINO, ANTHONY N. NB-05469-1
DAHLBERG, ALBERT A. DE-01874-3
DAHLEN, ROGER W. HE-07624-3
DAHLGARD, MURIEL G. CA-06314-3
DAHM, PAUL A. FF-00019-12
DAIBER, FRANKLIN C. GM-06809-6
DAIN, JOEL A. NB-05104-2
DALE, EDWIN HD-00451-3
DALE, JACK G. DE-01512-4
DALHAMN, TORE AP-00185-2
DALLAM, R. DUNCAN HE-02102-11
DALLMAN, PETER R. HE-10050-1
DALLEMAGNE, MARCEL J. DE-01931-2
DAL SANTO, GIANFRANCO NB-05546-2
DALY, HOWELL V. HD-00856-4
DALY, JOHN F NB-02484-6
DALE, W. ANDREW HE-09116-1
DALY, IVAN DE BURGH HE-07368-3
DALY, JOHN F NB-01832-7
DALY, JOHN F NB-01833-7
DALY, MARIE M. HE-05143-6
DALY, WALTER J. HE-09480-1
DAMATO, ANTHONY N. CO-00089-1
DAMATO, ANTHONY N. HE-09751-1
DAMATO, ANTHONY N. OH-00171-1

DAMESHEK, WILLIAM AM-02037-7
DAMESHEK, WILLIAM AM-07433-2
DAMESHEK, WILLIAM AM-07937-3
DAMESHEK, WILLIAM CA-04168-7
DAMIAN, RAYMOND T. AI-06298-1
DAMMANN, J. FRANCIS, Jr. HE-08938-2
DAMMIN, GUSTAVE J. HE-01771-12
DAMMIN, GUSTAVE J. HE-06370-4
DAMMKOEHLER, RICHARD A. FR-00215-1
DANCIS, JOSEPH HD-00462-11
DANDLIKER, WALTER B. AM-07508-3
DANEHY, JAMES P. GM-11836-2
DANFORTH, WILLIAM H. AM-07990-2
D'ANGELO, SAVINO A. AM-00432-15
DANFORTH, DAVID N. HD-01171-4
DANFORTH, WILLIAM F. GM-07918-5
DANIEL, LOUISE J. AM-03505-6
DANIELLI, JAMES F. CA-06645-3
DANIELLI, JAMES F. GM-11603-2
DANIELS, FARRINGTON, Jr. CA-07071-4
DANIELS, MALCOLM AM-06420-4
DANIELS, RALPH GM-10767-3
DANIELS, ROBERT S. MH-10828-1
DANIELS, T.C. FR-05453-3
DANISHEFSKY, ISIDORE HE-07514-3
DANISHEFSKY, SAMUEL AM-09696-1
DANNENBERG, ARTHUR M., Jr. AI-06261-1
DANNLEY, RALPH L. CA-04104-6
DANOWSKI, T.S. AM-08295-2
DANOWSKI, THADDEUS S. AM-01617-8
DANTZIG, GEORGE B. GM-09606-4
DANUE, MICHEL TW-00095-1
DAO, THOMAS L. CA-04595-6
DAO, THOMAS L. CA-04632-7
DAO, THOMAS L. CA-08219-1
DARBY, WILLIAM J. AM-08317-2
DARLEY, ELLIS F. AP-00272-1
DARLEY, JOHN G. HD-01136-1
DARLING, ROBERT C. GM-11424-2
DARLINGTON, ROBERT W. AI-05765-2
DARNELL, JAMES E., Jr. CA-07861-2
DARROW, DANIEL C. AM-07687-2
DART, S LEONARD AM-08935-1
da SILVA HORTA, JORGE RH-00039-5
DASLER, WALDEMAR AM-01427-9
DASLER, WALDEMAR AM-06676-3
DAUBEN, WILLIAM G. AM-00709-13
DAUBEN, WILLIAM G. CA-04284-6
DAUGHADAY, WILLIAM H. AM-01526-9
DAUGHADAY, WILLIAM H. AM-05105-4
DAUSSET, JEAN CA-05573-5
DAVENPORT, GUY R. AM-08830-1
DAVENPORT, HORACE W. AM-08716-1
DAVENPORT, RICHARD HD-00011-2
DAVENPORT, WILLIAM H. MH-08862-2
DAVES, MARVIN L HE-09110-1
DAVID, JOHN R. AI-06510-1
DAVID, RAPHAEL AM-08045-2
DAVIDHEISER, ROGER H GM-12438-1
DAVIDOFF, LEO M. NB-04708-3
DAVIDSOHN, ISRAEL AI-05179-3
DAVIDSOHN, ISRAEL AM-08705-1
DAVIDSON, BEN AP-00328-2
DAVIDSON, CHARLES S. AM-09115-1
DAVIDSON, CHARLES W. FR-05501-3
DAVIDSON, EDWIN M. MH-10496-1
DAVIDSON, EUGENE A. AM-02903-7
DAVIDSON, EUGENE A. AM-04315-5
DAVIDSON, FLOYD F. WP-00002-10
DAVIDSON, IVAN W.F. CA-06474-3
DAVIDSON, JULIAN M. HD-00778-2
DAVIDSON, MURRAY AM-03432-7
DAVIDSON, NORMAN GM-10991-6
DAVIDSON, RONALD G HD-01015-1
DAVIDSON, WARREN D. HE-09472-1
DAVIE, EARL W. GM-10793-3
DAVIES, A. MICHAEL HE-05739-5
DAVIES, DEAN F. CA-07513-2
DAVIES, JACK HD-00132-1
DAVIES, JACK HD-00971-3
DAVIES, JACK N. HE-09417-1
DAVIES, PHILIP W. NB-01434-8
DAVIES, RICHARD O. NB-05892-1
DAVIES, ROBERT E. AM-05707-4
DAVIES, ROBERT E. GM-10997-3
DAVIES, ROBERT E. HE-02520-9
DAVIES, RONALD E CA-07957-1
DAVIES, T.H. FR-05580-1
DAVIS, BERNARD D. GM-13238-1
DAVIS, DARRELL L. HE-05782-5
DAVIS, DAVID AI-03527-5
DAVIS, DAVID E. HE-06262-4

DAVIS, DONALD FF-00219-5
DAVIS, DONALD G. AM-08348-2
DAVIS, FRANK F. GM-09999-4
DAVIS, GEORGE D. NB-00874-9
DAVIS, GEORGE K. AM-07468-2
DAVIS, GEORGE K. HE-01118-11
DAVIS, HAROLD T. CA-07294-2
DAVIS, JAMES E AI-06691-1
DAVIS, JOHN H AM-05988-4
DAVIS, JOSEPH R HD-01573-1
DAVIS, LEODIS GM-11160-3
DAVIS, LOUIS E HM-00224-2
DAVIS, MATTHEW D AM-04996-5
DAVIS, MICHAEL D. NB-03833-3
DAVIS, MILTON W. WP-00595-1
DAVIS, MORRIS OH-00201-1
DAVIS, OLIVE S CA-05563-5
DAVIS, RICHARD A. AM-03596-6
DAVIS, RICHARD B HE-07150-3
DAVIS, ROBERT E. RH-00279-2
DAVIS, ROBERT P. AM-04004-6
DAVIS, ROGER T. MH-07147-3
DAVIS, W MARVIN MH-11295-1
DAVIS, WAYNE H. GM-11149-3
DAVIS, WILLIAM B. AI-03743-4
DAWSON, CHARLES R AM-03200-7
DAWSON, CHARLES R. AM-06994-3
DAWSON, L.E. EF-00442-3
DAWSON, WALLACE D. HD-01055-1
DAY, BILLY N. HD-00621-3
DAY, BILLY N. HD-01170-5
DAY, EDGAR A. EF-00182-6
DAY, EDGAR A. EF-00269-4
DAY, EDGAR A. EF-00532-2
DAY, HARRY G. AM-08209-2
DAY, MAXWELL F. AI-02462-7
DAY, RICHARD A AI-06375-1
DAY, RICHARD L. FR-00084-3
DAY, RICHARD L. HD-00548-2
DAY, ROBERT T. FR-05489-3
DAY, ROBERT W. HD-01638-1
DAYHOFF, MARGARET O. GM-08710-4
DAYHOFF, MARGARET O GM-11201-3
DAYTON, GLENN O., Jr. NB-04625-3
DAYTON, PETER G. AM-04724-5
DAYTON, SEYMOUR HE-03734-7
DAYTON, SEYMOUR HE-04900-5
DEAL, W. CECIL, Jr. GM-11170-3
De ALMEIDA, JOSE O. AI-03760-3
DE ALVAREZ, RUSSELL R. CA-07355-2
DE ALVAREZ, RUSSELL R. CA-07919-1
DE ALVAREZ, RUSSELL R. CA-08197-1
DEAN, BURTON V. DH-00017-3
DEANE, GEORGE E. MH-06590-3
DEANE, HELEN W. AM-03605-6
DEANE, NORMAN HE-07919-2
DEANE, WILLIAM N. OM-01049-3
DEARBORN, CURTIS H. GM-11577-2
DeARMOND, DIANE MH-11205-1
DeBAKEY, MICHAEL E. HE-03137-8
DeBAKEY, MICHAEL E. HE-09252-2
DE BALBIAN VERSTER, F. NB-04015-1
DEBERSAQUES, JEAN P. TW-00032-3
DEBONS, ALBERT F. AM-08667-2
DeBRUYN, PETER P.H. CA-05493-5
DEBUS, ALLEN G. GM-09855-3
DeCAMP, PAUL T. HE-06650-4
de CARVALHO AZEVEDO, ARTHUR HE-07342-3
DECKER, JAY D. DE-02085-2
DECKER, JOHN L. AM-08900-1
DECKER, LUCILLE F AM-08910-1
DECKOFF, STEPHEN L. GM-08703-3
de DUVE, CHRISTIAN GM-08705-3
DEERING, REGINALD A. AM-09395-1
DEESE, JAMES MH-06550-3
DEFALQUE, RAY J. HE-09565-1
DE FANTI, DAVID R. HE-09292-1
De FEO, VINCENT J. HD-01022-1
DEFORE, EDWARD C., Jr. HD-01181-3
DeFRIES, JOHN C. GM-12486-1
DEGRAAF, DONALD E. GM-11356-3
DeGROOT, LESLIE J. AM-06400-3
DeGROOT, WILLIAM J. AM-08651-2
de HANDAL SACA, MYRIAN DE-01885-2
DE HEVESY, GEORGE RH-00186-3
DEICHMANN, WILLIAM B. CA-05449-4
DEICHMANN, WILLIAM B. ES-00052-1
DEIKMAN, ARTHUR J. MH-07683-2
DEINHARDT, FRIEDRICH AI-04323-3
DEISS, WILLIAM P., Jr. AM-03224-6
DEISS, WILLIAM P., Jr. AM-06128-4
DEISS, WILLIAM P., Jr. FR-00057-3

ALPHABETICAL LISTING OF INVESTIGATORS

DEITRICK, JOHN E. FR-00047-5
DEITRICK, JOHN E. FR-05396-4
DEITRICH, RICHARD A. NB-04551-3
DeJONG, RUSSELL N NB-02368-8
DE JONGH, DON C. GM-12328-1
DE JUHASZ, KALMAN J. AP-00186-4
DeJUHASZ, KALMAN J. AP-00334-2
DEKKER, EUGENE E. AM-03718-6
DeLACY, PHILIP H. GM-13513-1
DELAFRESNAYE, JOHN F. CA-05096-4
de la HABA, GABRIEL GM-06970-6
DELAMATER, EDWARD D. AI-06114-2
DE LAND, EDWARD C. HE-08665-2
DELAND, RAYMOND J. AP-00413-1
DELANEY, JOHN E. WP-00202-5
DELANEY, PATRICK F. AM-09186-1
DE LANNEY, LOUIS E. GM-05619-7
DELAY, JEAN MH-05098-4
DEL CASTILLO, JOSE NB-05235-2
DE LEMOS, GASTON OM-01692-1
DE LEON, GEORGE MH-10628-1
DELGADO, JOSE M.R. MH-02004-8
DELLACHA, JUAN M. TW-00071-3
DELLAPORTA, ANGELOS NB-03142-4
DELMONTE, LILIAN CA-07788-2
DeLONG, DWIGHT M. AI-00528-16
de LORENZO, A.J. NB-02173-6
DELORIMIER, ALFRED A. HD-01282-1
DEL REGATO, J.A. CA-08275-1
DeLUCA, HECTOR F. AM-05800-4
DELWICHE, F.A. AI-06459-1
DeMAGGIO, AUGUSTUS E. GM-12580-2
DEMARIA, WILLIAM J.A. HE-06146-5
de MARNEFFE, FRANCIS FR-05484-3
DeMARS, ROBERT GM-06983-6
DeMARTINIS, FREDERICK D. AM-03143-5
de MAY, PAUL EF-00419-1
DE MEIO, ROMANO H. AM-00740-12
DEMENT, WILLIAM C. MH-08185-2
DEMING, QUENTIN B. HE-05130-7
DEMING, QUENTIN B. HD-00674-7
DEMIS, D. JOSEPH AM-08152-2
DE MOSS, JOHN A. GM-13200-1
DEMOSS, RALPH D. AI-07971-6
DeMOSS, RALPH D. AI-04167-1
DeMOTT, DONALD W. MH-02413-7
DEMPSEY, EDWARD W. GM-03784-12
DEMPSEY, MARY E. HE-08634-2
DEMPSEY, WALTER B. AI-05369-3
DEMPSHER, JOHN NB-03522-3
DEMPSTER, WILFRED T GM-07741-5
DEMPSTER, WILFRID T. DF-01820-3
DeMYER, MARIAN K. MH-05154-4
DeMYER, WILLIAM NB-05283-2
DENBER, HERMAN C.B. MH-05093-4
DENBER, HERMAN C.B. MH-10989-1
DENENBERG, VICTOR H. MH-07381-3
DENKO, CHARLES W. OH-00158-2
Dennen Animal Ind. Contr. CA-65-578
DENNEY, D. DUANE NB-04476-3
DENNEY, DONALD B. GM-12625-1
DENNING, CAROLYN R. AM-04197-5
DENNIS, CLARENCE HE-01011-14
DENNIS, CLARENCE HE-07028-4
DENNIS, DON GM-11765-2
DENNIS, WARREN H GM-11676-2
DENNIS, WAYNE MH-06288-4
DENNY-BROWN, DEREK NB-04610-2
DENNY-BROWN, DEREK E. NB-03477-3
DENSEN, PAUL M. CH-00043-3
DENSEN, PAUL M. OH-00174-2
DENSLOW, J.S. FR-05439-4
DENTON, DEREK A. AM-08701-1
DENTON, J. FRED CC-00046-2
DENTON, ROBERT AM-03563-6
DeOME, K.B. CA-05388-6
DeOME, KENNETH B. CA-07015-3
DE PALMA, ANTHONY F. AM-08006-2
DePALMA, ANTHONY F. AM-08973-1
DE PALMA, ANTHONY F. NB-05519-1
DE PAOLA, DOMINGOS AI-06238-1
DePUY, CHARLES H. GM-12617-1
DERBYSHIRE, ARTHUR J. NB-05105-1
DE RIVAS, CARMELA OM-01844-2
DERKS, PETER L. MH-08889-2
DERN, RAYMOND J. AM-00946-9
DE ROBERTIS, EDUARDO D.P. NB-03991-3
deROOS, ROBERT AM-06259-3
DERRICK, JOHN R. HE-07278-3
DERRY, JOHN R. HM-00446-1
DESFORGES, JANE F. AM-06051-9
DeSHAZER, DOUGLAS O. DE-01996-3
DESMEDT, JEAN E. NB-02482-6
DESNUELLE, PIERRE A.E. AM-04642-4
DESPOPOULOS, AGAMEMNON AM-08719-1
DES PREZ, ROGER M. HE-08399-2
DETERLING, RALPH A., Jr. AM-07408-2
DETERLING, RALPH A., Jr. HE-09427-1
DETWEILER, DAVID K. HE-04160-5
DETWEILER, DAVID K. HE-04885-6
DEULOFEU, VENANCIO GM-11994-2
DEUTSCH, ERWIN HE-06425-4
DEUTSCH, HAROLD F. CA-01786-11
DEUTSCH, J.A. MH-10997-1
DEUTSCH, MARTIN OM-00820-4
DEUTSCH, MARTIN OM-01098-3
DEUTSCHMAN, ARCHIE J., Jr. EF-00499-2
DE VALOIS, RUSSELL L. NB-02274-6
DE VILLAFRANCA, GEORGE W. AM-02647-9
DE VISSCHER, MICHEL HD-01553-1
DEVLIN, J. PAUL GM-12472-1
DeVOE, ARTHUR G. NB-04968-2
DeVOE, ROBERT D. NB-03750-4
DEVOR, ARTHUR W. AM-03037-5
DE VOS, GEORGE A. MH-04087-5
DE VRIES, ANDRE HE-05774-5
DEW, DONALD NB-05127-3
DE WALL, RICHARD A. HE-08838-1
DEWAR, MICHAEL J.S. CA-07172-2
DEWAR, MICHAEL J.S. GM-11531-2
deWARDENER, HUGH E. AM-05008-5
DEWEY, MAYNARD M. AM-05197-4
DEWEY, WILLIAM C. CA-04484-7
DeWITT, CHARLES W. AI-04624-3
DEWHIRST, LEONARD W. CC-00073-6
DEWS, PETER B. MH-02094-8
DEXTER, LEWIS HE-00450-16
DEY, FREDERICK L. NB-04046-3
DEY, MUKUL K. MH-10796-1
DEYRUP-OLSEN, INGRITH J. AM-09361-2
DHALIWAL, SATWANT S. CA-05851-3
DIAMOND, IRVING T. MH-04849-5
DIAMOND, LOUIS K GM-09107-6
DIAMOND, LOUIS K. HE-02405-13
DIAMOND, LOUIS K. NB-00264-13
DIAMOND, LOUIS K. NB-03492-4
DIAMOND, LOUIS K. NB-04038-4
DIAMOND, MILTON GM-10632-3
DIAMOND, SIDNEY P. NB-05070-2
DICKERMAN, ROBERT W. AI-06248-2
DICKERSON, RICHARD E. GM-12121-2
DICKERSON, WILLARD W OM-01745-2
DICKMAN, SHERMAN R. AM-00803-13
DICZFALUSY, EGON HD-00413-6
DIECKE, FRIEDRICH P.J. NB-05188-2
DIEDRICH, DONALD F. AM-06878-4
DIEHL, J. FRIEDRICH AM-03294-5
DIENER, URBAN L. EF-00590-2
DIENES, LOUIS L. AI-05625-2
DIENST, STANLEY G. AM-06095-3
DIETHELM, OSKAR MH-07428-2
DIETIKER, K. EDWARD HM-00376-1
DIETRICH, L.S. AM-03049-6
DIETRICH, L.S. CA-07020-2
DIETRICH, LAROY S. CA-04868-6
DIETSCHY, JOHN M. HE-09610-1
DI FERRANTE, NICOLA M. AM-09397-1
DIFFEE, JOHN T. EF-00310-3
diFURIA, GIULIO OM-01710-2
DIGGS, LEMUEL W. HE-07275-3
DIGMAN, JOHN M. HD-01443-1
DIGNAM, WILLIAM HD-00722-1
DIGNAM, WILLIAM J. AM-03034-5
DIKSTEIN, SHABTAY TW-00062-3
DILL, RUSSELL E. AM-07257-3
DILLON, ROBERT M. ES-00012-1
DILOKSAMBANDH, VICHIEN TW-00116-2
DI LUZIO, NICHOLAS R. AM-06660-3
DI LUZIO, NICHOLAS R. AM-08084-2
DI LUZIO, NICHOLAS R. HE-05367-6
DI MASCIO, ALBERTO MH-10455-1
DI MASCIO, ALBERTO MH-10892-1
DIMOND, A.E. AI-05638-3
DIMOND, E. GREY HE-07983-3
DIMOND, MARIE T., SISTER AM-01766-4
DIMOPOULOS, GEORGE T. AI-02250-7
DINGELL, JAMES V. AM-08758-1
DINGLEDINE, WILLIAM S. AM-06645-3
DINGMAN, HARVEY F. MH-08667-1
DINGMAN, JOSEPH F. HE-09279-1
DINGMAN, PAUL R. OM-00012-7
DINMAN, BERTRAM D. OH-00169-2
DINNERSTEIN, ALBERT J. MH-07656-2
DINSMOOR, JAMES A. MH-03648-5
DINSMOOR, JAMES A. MH-10474-1
DINTZIS, HOWARD M. AM-04006-3
DI PALMA, JOSEPH R. NB-05379-2
DI PIETRO, DAVID L. HD-01489-1
DISCHE, ZACHARIAS AM-01834-8
DISCHE, ZACHARIAS AM-02856-7
DISCHE, ZACHARIAS CA-02075-12
DISEKER, MAUDE AM-06963-2
DI STEFANO, VICTOR NB-04666-3
DITCHBURN, ROBERT W. NB-01233-8
DITMAN, KEITH S. MH-11272-1
DITTES, JAMES E. MH-03857-5
DITTMER, DONALD C. AM-07770-2
DITTMER, DONALD C. CA-08250-1
DITTMER, JOHN C. AM-06008-4
DIVEN, WARREN F GM-11984-1
DIVESTA, FRANCIS J. HD-00872-5
DIXON, ANDREW D. DE-02075-2
DIXON, FRANK J. AI-03897-4
DIXON, FRANK J. AM-06577-3
DIXON, FRANK J. GM-07796-5
DIXON, FREDERICK HE-07904-3
DIXON, JOHN A. AM-07857-2
DIXON, RUSSELL A. FR-05307-4
DIXON, THEODORE R. MH-08884-2
DIXON, WILFRID J. CA-06084-5
DIXON, WILFRID J. CA-06511-4
DIXON, WILFRID J. FR-00003-4
DIXON, WILFRED J. NB-05851-1
DJERASSI, CARL AM-04257-5
DJERASSI, CARL CA-07195-2
DJERASSI, CARL GM-06840-7
DJERASSI, CARL GM-11309-2
DMOCHOWSKI, LEON CA-03679-7
DMOCHOWSKI, LEON CA-04140-7
DOAN, CHARLES A CA-04920-6
DOAK, GEORGE O. GM-09479-3
DOBROF, ROSE OM-01297-3
DOBROGOSZ, WALTER J. AI-06072-2
DOBSON, RICHARD L. AM-05635-4
DOBSON, RICHARD L. CA-06111-4
DOBYNS, BROWN M. AM-03232-4
DOCHERTY, JOHN A. OM-01696-1
DOCTER, RICHARD F. MH-08441-2
Documentation, Inc. Contr. CA-65-88
Documentation, Inc. Contr. MH-65-39
DODD, JOHN D. WP-00221-5
DODGE, HAROLD T. HE-03391-9
DODGE, JOAN S. CH-00091-1
DODGE, PHILIP R. NB-04225-3
DODGEN, CHARLES I. EF-00438-3
DODGSON, KENNETH S. AM-01982-7
DODSON, RAYMOND M. AM-09180-1
DODSON, RAYMOND M. CA-05891-4
DOE, RICHARD P. CA-05371-5
DOEMLING, DONALD B. AM-08582-2
DOENGES, F. EUGENE NB-04843-2
DOERMANN, AUGUST H. CA-08089-2
DOERMANN, AUGUST H. GM-12581-2
DOGON, ISRAEL L. DE-01868-2
DOHERTY, JAMES E. HE-06642-4
DOHLMAN, CLAES H. NB-02220-6
DOHRENWEND, BRUCE P. MH-10328-1
DOISY, RICHARD J. AM-03025-6
DOKU, HRISTO C. DE-01213-4
DOLBY, LLOYD J. HE-09521-1
DOLBY, LLOYD J. MH-10105-1
DOLE, VINCENT P. AM-03963-5
DOLJANSKI, FANNY CA-06582-3
DOLL, ELVIS R. AI-05110-3
DOLLAR, ALEXANDER M. GM-09091-4
DOLLARD, JOHN MH-00648-11
DOLNICK, BERNARD OM-02057-1
DOLOWITZ, DAVID A. NB-04620-3
DOLUISIO, JAMES T. AI-05321-3
DOMER, FLOYD R. NB-04813-2
DOMINGUEZ, JOSE M. AM-06727-2
DOMINGUEZ, OSCAR V. CA-06841-3
DOMINGUEZ, XORGE A. GM-13184-1
DOMINO, EDWARD F. MH-02653-7
DOMINO, EDWARD F. NB-01311-8
DOMM, LINCOLN V. DE-00694-6
DONAGHY, R.M. PEARDON GM-11903-2
DONAHER, J.C. HM-00397-1
DONAHOE, JOHN W. MH-10706-1
DONAHUE, GEORGE T. OM-02049-1
DONAHUE, WILMA HD-01274-1
DONAHUE, WILMA OM-01547-1
DONALD, DAVID E. HE-06143-5

DONALDSON, BEATRICE HM-00198-2
DONALDSON, DAVID D. NB-01851-7
DONALDSON, DAVID M. AI-01171-8
DONALDSON, KENNETH O. AM-07394-3
DONALDSON, ROBERT M., Jr. AM-08444-2
DONALDSON, VIRGINIA H HF-08865-1
DONALDSON, WILLIAM E. AM-07833-2
DONARUMA, L. GUY AI-06662-1
DONDERO, NORMAN C. WP-00212-5
DONDERO, NORMAN C. WP-00645-2
DONE, ALAN K. HD-00615-3
DONN, ANTHONY NB-02343-6
DONNELLY, JOHN MH-10820-1
DONNER, MARTIN W. AM-04676-4
DONNER, MARTIN W. HD-01509-1
DONOHUE, DENNIS M. CA-07584-2
DOOLITTLE, DONALD P. GM-11640-2
DOOLITTLE, DONALD P. HD-00561-4
DOOLITTLE, DONALD P. HD-00771-1
DOORENBOS, NORMAN J. AI-06798-1
DOORENBOS, NORMAN J. CA-04132-6
DORDAL, ERL AM-07458-2
DOREMUS, HENRY M. GM-08858-3
DORFMAN, ALBERT AM-05996-4
DORFMAN, DONALD D. MH-10449-1
DORFMAN, RALPH I. CA-02193-11
DORIS, JOHN L. HD-00790-2
DORN, GORDON L. GM-12711-1
DORNBLASER, BRIGHT M. HM-00371-2
DORNER, ROBERT W. AM-08560-1
DORNFEST, BURTON S. AM-09321-1
DOROUGH, H. WYMAN ES-00085-1
DORSCH, GRAYDON OM-01886-1
DOSKOTCH, RAYMOND W. CA-08133-1
DOSSEL, WILLIAM E. HD-00785-2
DOTTER, CHARLES T. HF-03275-8
DOTY, HELGA B. GM-11023-9
DOTY, LARRY A. MH-07655-2
DOTY, PAUL HD-01229-14
DOTY, ROBERT W. NB-03606-4
DOUGHERTY, THOMAS F CA-02317-12
DOUGHERTY, THOMAS F. CA-05225-5
DOUGHTY, CLYDE C. AI-06071-2
DOUGLAS, BODIE E. GM-10829-7
DOUGLAS, BRUCE L. DH-00044-1
DOUGLAS, GORDON W. HD-00503-6
DOUGLAS, HOWARD C. GM-07158-6
DOUGLAS, WILLIAM W. NB-01093-9
DOUGLAS, WILLIAM W. NB-04006-4
DOUGLASS, IRWIN B. AP-00383-1
DOUNCE, ALEXANDER L. CA-00994-16
Dow Chemical Co. Contr. CA-65-1045
DOW, PHILIP HE-00240-15
DOW, ROBERT S. NB-02289-6
DOW, ROBERT S. NB-05295-2
DOW, ROBERT S. NB-05838-1
DOWBEN, ROBERT M. AM-09715-1
DOWDY, ELIZABETH G. HE-08243-2
DOWDY, WILLIAM W. GM-12403-1
DOWE, ARTHUR E. AI-06567-2
DOWELL, CLIFTON E., Jr. AI-06389-1
DOWLING, HARRY F. AI-01690-8
DOWLING, HARRY F. FR-00045-3
DOWLING, J. THOMAS AM-05725-3
DOWLING, JAMES T. AM-05825-4
DOWLING, JOHN E. NB-05336-2
DOWNING, S. EVANS HE-09516-1
DOWNES, JOHN J. HD-01412-1
DOWNEY, RONALD J AI-05820-2
DOWNIE, HARRY G. HE-06951-4
DOWNING, BILLIE R. OM-01728-2
DOWNING, BILLIE R. OM-02030-1
DOWNING, S. EVANS HE-08659-2
DOWNS, CORA M. AI-05509-3
DOYLE, JOSEPH T. HE-07269-3
DOYLE, JOSEPH T. HE-08675-2
DRABKIN, DAVID L. AM-00831-10
DRACHMAN, DANIEL B HD-01083-1
DRACHMAN, DAVID A. MH-10470-1
DRAGSTEDT, LESTER R. AM-04178-6
DRAKE, JOHN W. AI-04886-3
DRAPANAS, THEODORE AM-09159-1
DRAPER, HAROLD H AM-07052-9
DRAPER, HAROLD H. NB-04201-3
DRAPER, WILLIAM A. MH-11196-1
DRASKOCZY, PAUL R. NB-04939-2
DRAUS, FRANK J. AM-05338-4
DRAUS, FRANK J. DE-01588-4
DRAVNIEKS, ANDREW NB-05310-2
DREIFUS, LEONARD S. HE-07136-4
DREILING, DAVID A. AM-03889-5
DREISBACH, ROBERT H. DE-00794-6
DREIZEN, PAUL AM-06165-3
DREYFUS, JEAN-CLAUDE GM-06016-7
DREYFUS, PIERRE M. NB-01906-7
DRIPPS, ROBERT D. GM-09070-3
DRISCOLL, SHIRLEY G. HD-00598-3
DRONKERT, ADRIAN AM-07882-2
DROSSNESS, DANIEL L. HM-00194-1
DRUCKER, WILLIAM R. AM-01253-9
DRUCKER, WILLIAM D. AM-08423-2
DRUFF, JAMES H. OM-01718-2
Drug Detection and Dev. Organization Contr. AI-63-587
DRUGER, MARVIN GM-10481-1
DRURY, DOUGLAS R. AM-00052-14
DRURY, DOUGLAS R. HE-00054-18
DRYER, ROBERT L. AM-08476-2
DRYSDALE, GEORGE R. CA-03980-8
DUANE, THOMAS D. NB-04233-4
DUBBS, CLYDE A. CA-06730-3
DUBIN, DONALD T. AI-05724-2
Dublin Lab. Animals Contr. CA-65-25
Dublin Lab. Animals Contr. CA-65-93
DUBNOFF, JACOB W. AM-06716-3
DUBOIS, ARTHUR B. HE-04797-6
DUBOIS, ARTHUR B. HE-07397-2
DUBOIS, EDMUND L. AM-03075-5
DuBOIS, KENNETH P. GM-03349-14
DUBOS, RENE AI-05676-2
DU BOSE, ROBERT T AI-03393-5
DUBY, PAUL DE-01804-3
DUCOFF, HOWARD S. GM-10208-3
DUELLMAN, WILLIAM E. GM-12020-2
DUERKSEN, JACOB D GM-09291-4
DUFF, RAYMOND S. NU-00012-5
DUFFY, ELEANOR P. OM-01068-3
DUFFY, PHILIP E. HD-00964-2
DUGAN, LEROY HE-09441-1
DUGAN, PATRICK R. WP-00793-1
DUGDALE, RICHARD C. WP-00422-3
DUGGER, GORDON S. NB-04187-2
DUGGER, W.M., Jr. AP-00040-4
DUHIG, JAMES T. CA-07700-2
DUKE, FREDERICK R. AM-07986-2
DUKES, C. DEAN HD-00068-2
DULANY, DON E., Jr. MH-06836-3
DULBECCO, RENATO CA-07592-2
DULIANO, MAURICIO I HF-08089-2
DULIT, EVERETT P MH-06384-4
DULL, THEODORE A. AM-08340-1
DUMAS, RHETAUGH G. NU-00060-3
DUNAGAN, TOMMY T AI-05717-2
DUNAGIN, J.L. OM-01822-2
DUNATHAN, HARMON C. AM-09309-1
DUNCAN, CARL P. HD-00901-6
DUNCAN, CHARLES H. HE-01946-11
DUNCAN, DONALD NB-00690-11
DUNDEE, DOLORES S. GM-07194-5
DUNGAL, NIELS CA-06188-3
DUNHAM, EDWARD T. CA-06050-4
DUNHAM, PHILIP B. GM-11441-2
DUNIHUE, FRED W. HE-05946-5
DUNLOP, ROBERT H. AM-07341-3
DUNN, ARNOLD AM-07215-2
DUNN, FLOYD GM-12281-1
DUNN, FLOYD W. AI-03710-5
DUNN, LEO J. CA-08334-1
DUNN, LLOYD M. HD-00973-2
DUNN, MARVIN R. AM-03861-6
DUNN, MARVIN R. AM-06098-3
DUNNETTE, MARVIN D MH-08563-2
DUNPHY, J. ENGLEBERT AM-09181-1
DUNPHY, J. ENGLEBERT CA-05739-3
DUNPHY, J. ENGLEBERT GM-12829-1
DUPERTUIS, C. WESLEY HE-03289-7
DURAN-REYNALS, MARIA L. CA-07160-1
DURAND, DONALD P. AI-03699-5
DURHAM, LEONARD WP-00792-1
DURHAM, NORMAN N. AM-09396-4
DURNIN, J.V.G.A. AM-05104-4
DURR, GEORGE J. CA-08095-2
DUSENBERRY, JAMES E. GM-06643-5
DUSTAN, HARRIET P. HF-10117-1
DUTCHER, RAY M. CA-06827-3
DUTTA, SARADINDU HE-09653-1
DUTTON, RICHARD W. AI-05613-3
DUTTON, ROBERT E., Jr. HE-09405-1
DUTY, JOSEPH F. OM-01708-2
DUTZ, WERNER E. HD-01809-1
DUVALL, ARNDT J., III NB-04615-1
DU VIGNEAUD, VINCENT HE-01675-10
DWYER, JAMES M. GM-12512-1
DYAL, JAMES A. MH-11772-1
DYAR, ROBERT FR-05549-3
DYCK, PETER J NB-05811-1
DYER, ELIZABETH CA-03477-8
DYER, HUBERT J. AM-03226-6
DYER, JOHN R GM-10309-3
DYKMAN, ROSCOE A MH-01091-10
DZENDOLET, ERNEST NB-03675-4
E.R. Squibb and Sons Contr. CA-65-1050
E.R. Squibb and Sons Contr. CA-65-1056
E.R. Squibb and Sons Contr. CA-65-1071
EADIE, GEORGE S. HE-03028-8
EAGER, ROBERT P NB-04760-2
EAGLE, HARRY AI-04153-5
EAGON, ROBERT G. AI-05156-2
EAKIN, RICHARD M. GM-10292-3
EALES, LENNOX AM-03997-5
EARLE, DAVID P AI-03714-5
EARLE, DAVID P. HE-07057-3
EARLEY, LAWRENCE E. AM-05401-4
EASTERDAY, BERNARD C. AI-04997-3
EASTERLING, WILLIAM E. HD-01853-1
EASTERLY, WILLIAM D., GM-10371-3
EASTON, DEXTER M. NB-05734-1
EASTWOOD, RICHARD T. FR-00254-1
EATON, GORDON J. HD-00036-2
EATON, HAMILTON D NB-02108-6
EATON, MONROE D. CA-03762-8
EATON, MONROE D. CA-04965-6
EATON, NORMAN R GM-10792-3
EATON, PHILIP E. GM-10572-3
EBASHI, SETSURO AM-04810-5
EBAUGH, F.D., Jr. FR-05380-4
EBBE, SHIRLEY AM-08263-2
EBENHOLTZ, SHELDON M. MH-08706-2
EBERLEIN, WALTER R. HD-00379-7
EBERT, R. AM-04501-4
EBERT, RICHARD V. FR-00049-4
EBERT, RICHARD V. HE-02193-10
EBERT, RICHARD V. HE-04031-7
EBERT, ROBERT H. AM-08771-2
EBERT, ROBERT J. FR-05381-4
EBNER, EUGENE MH-10982-1
EBNER, KURT E. AM-06889-3
EBY, SISTER DENISE CA-06787-2
ECHLIN, FRANCIS A. NB-01300-9
ECHOLS, GESSNER H., Jr. GM-08407-5
ECK, RICHARD GM-12168-2
ECKEL, ROBERT E. GM-03968-12
ECKERT, JOHN E. AI-04910-3
ECKERT, ROGER NB-05301-2
ECKERT, ROGER O. NB-03664-4
ECKHARDT, EILEEN T. AM-08101-1
ECKLES, NYLENE E. CA-03163-6
ECKSTEIN, JOHN W. HE-02644-9
ECKSTEIN, RICHARD W. HE-04156-7
EDBERG, SANFORD GM-09490-4
EDDIE, B. AI-04759-4
EDDS, MAC V., Jr. AM-01755-8
EDDY, JAMES H CA-04828-6
EDDY, MAX OM-01139-3
EDELBERG, ROBERT MH-08656-2
EDELMAN, CHESTER M. HE-05561-5
EDELMAN, GERALD M. AM-04256-5
EDELSON, DAVID OM-01667-1
EDEN, MURRAY GM-12822-1
EDGERTON, ROBERT H. HE-08770-2
EDGINGTON, THOMAS S. HE-08081-3
EDMAN, THOMAS HE-06081-5
EDMARK, KARL W. HE-03049-9
EDMONDS, MARY P. AM-07872-2
EDMONDS, PETER D GM-12299-1
EDMONDSON, HUGH A. AM-05801-4
EDMUNDS, L. HENRY, Jr. HE-09681-1
EDSALL, GEOFFREY AI-04249-5
EDSALL, JOHN T. HE-03169-8
EDWARDS, ALLAN E. MH-06281-4
EDWARDS, ALLEN L. MH-04075-5
EDWARDS, CECILE H. AM-01464-9
EDWARDS, CHARLES NB-02712-5
EDWARDS, DAVID C. MH-10415-1
EDWARDS, DOROTHY S. AC-00172-2
EDWARDS, HARDY M., Jr. AM-06338-4
EDWARDS, JESSE E. HE-05694-6
EDWARDS, JOHN STUART NB-05137-2
EDWARDS, MERCEDES R. AI-04589-4
EDWARDS, SIDNEY W HE-09343-1

EDWARDS, W. STERLING	HF-01987-11
EFRON, MARY L.S.	NB-05096-2
EGAN, RICHARD L.	FR-05390-4
EGDAHL, RICHARD H.	AM-08726-2
EGEBERG, ROGER O.	CC-00005-7
EGEBERG, ROGER O.	FR-00043-5
EGEBERG, ROGER O.	FR-05356-4
EGER, EDMOND I.	HF-07946-3
EGGERS, G.W.N., Jr.	GM-09183-3
EGUCHI, YASUNOBU	TW-00161-1
EHRENBERG, J. ANDERS	AM-05895-4
EHRENFREUND, DAVID	MH-07157-4
EHRENKRANZ, N. JOEL	AI-02429-7
EHRENKRANZ, N. JOEL	HD-00853-6
EHRENPREIS, SEYMOUR	HF-08597-2
EHRENPREIS, SEYMOUR	NB-03695-4
EHRENSTEIN, MAXIMILIAN R.	CA-00757-11
EHRENTHEIL, OTTO F.	AM-05408-3
EHRLICH, GABRIELE F.	NB-01646-7
EHRLICH, HOWARD G.	AI-06378-1
EHRLICH, I. ROBERT	AC-00162-1
EHRMANN, ROBERT L.	HD-01261-4
EIBER, HAROLD B.	HF-02823-9
EICH, ROBERT H.	HF-05531-5
EICH, ROBERT H.	HF-07757-3
EICH, ROBERT H.	HF-09363-1
EICHBAUM, FRANCISCO W.	HF-05477-4
EICHEL, HERBERT J.	AI-01424-11
EICHEL, HERBERT J.	AM-02438-6
EICHENHOLZ, ALFRED	HF-05754-5
EICHENWALD, HEINZ F.	CC-00131-1
EICHENWALD, HEINZ F.	CC-00132-1
EICHHORN, JOHN H.	DE-02244-1
EICHLER, MYRON F.	MH-08734-1
EICHMAN, MARTIN L.	AI-06486-1
EICHNER, DIETRICH	TW-00138-1
EICHWALD, ERNST J.	CA-02455-12
EICHWALD, ERNST J.	GM-11423-2
EIDELBERG, EDUARDO	NB-03496-4
EIDELBERG, EDUARDO	NB-05715-1
EIDELBERG, LUDWIG	MH-06631-3
EIK-NES, KRISTEN B.	AM-06651-3
EILER, JOHN J.	AI-04995-3
EIMAS, PETER D.	HD-00996-1
EINSTEIN, ELIZABETH R.	NB-02545-6
Einstein Med. Center	Contr. CA-64-37
Einstein Med Center	Contr. CA-65-46
Einstien Medical Cr.	Contr. CA-65-612
EIRICH, FREDERICK R.	DE-01769-3
EISCH, JOHN J.	GM-12329-1
EISEMAN, BEN	AM-05621-4
EISEMAN, BEN	AM-06888-3
EISEMAN, BEN	HE-06706-4
EISEMAN, BEN	HF-07772-3
EISEN, HERMAN H.	AI-03231-6
EISENBERG, EUGENE	AM-07792-2
EISENBERG, HENRY	CA-09808-5
EISENBERG, HENRY	HE-05025-4
EISENBERG, HENRY	HE-07544-3
EISENBERG, HENRY K.	GM-08664-4
EISENBERG, LEON	MH-02583-8
EISENBERG, MARVIN F.	NB-05597-1
EISENBERG, MAX A.	AM-04056-6
EISENBERG, RITA B.	HD-00732-2
EISENBERG, SEYMOUR	HF-08501-1
EISENHARDT, RUDOLF H.	CA-06266-4
EISENMAN, JOSEPH S.	NB-04301-3
EISENSTADT, JEROME M.	AM-07189-3
EISENSTEIN, ALBERT B.	AM-03135-6
EISENSTEIN, EDWARD M.	MH-11012-1
EISENSTEIN, EDWARD M.	NB-05827-1
EISENSTEIN, REUBEN	HF-06713-4
EISMAN, EUGENE H.	MH-11771-1
EISNER, THOMAS	AI-02908-6
EITZMAN, DONALD V.	AI-04072-5
EKHOLM, RAGNAR E.G.	AM-05254-3
EKMAN, PAUL	MH-07587-3
EKSTEDT, RICHARD D.	AI-06796-1
ELBERG, SANFORD S.	AI-00022-18
ELBERG, SANFORD S.	AI-03776-5
ELDEN, HARRY R.	HD-01066-1
ELDER, JOHN T.	MH-06796-3
ELDERFIELD, ROBERT C.	CA-02961-9
ELDERING, GRACE	AI-06348-1
ELDRED, DONALD M.	OM-01076-3
ELDRED, EARL	NB-01143-9
ELDRED, EARL	NB-03019-5
ELDRED, STANLEY H.	MH-08980-2
ELDRIDGE, FREDERIC L.	HE-03224-7
Electronic Assoc.	Contr. DBS-65-1052
ELEFTHERIOU, BASIL E.	HD-00013-2
ELFNER, LLOYD F.	MH-11181-1
Ell Lilly Co.	Contr. AI-65-31
Ell Lilly Co.	Contr. CA-65-570
Ell Lilly Co.	Contr. AI-65-563
ELIAS, ALBERT	OM-00904-4
ELIAS, HANS	HF-04216-6
ELIAS, JOEL J.	HD-00142-7
ELIASSEN, ROLF	FS-00068-1
ELIASSON, SVEN G.	NB-05204-2
ELIEL, LEONARD P.	AM-06207-3
ELIEL, LEONARD P.	AM-06487-3
ELIEL, LEONARD P.	CA-05815-5
ELIEL, LEONARD P.	FR-05538-3
ELIEL, LEONARD P.	HE-07005-4
ELIOT, ROBERT S.	HF-08940-1
ELKIN, MILTON	AM-03495-6
ELKIN, SAMUEL	MH-07702-3
ELKINS, HERVEY B.	OH-00055-7
ELKINTON, J. RUSSELL	HF-00340-16
ELLENBERGER, HENRI F.	MH-06286-3
ELLIAS, LORETTA C.	AI-02591-7
ELLING, RAY H.	GM-12367-3
ELLINGBOE, ALBERT H.	AI-06420-3
ELLINGSTON, JOHN R.	OM-00721-5
ELLINGSTON, JOHN R.	OM-00722-5
ELLINGTON, EARL F.	AM-08038-2
ELLIOT, JAMES S.	AM-04304-5
ELLIOTT, ALFRED M.	AI-01416-13
ELLIOTT, DELBERT S.	MH-07173-3
ELLIOTT, DONALD N.	NB-04084-3
ELLIOTT, DONALD N.	NB-04746-2
ELLIOTT, FREDERICK N.	FR-05468-3
ELLIOTT, HENRY W.	NB-00570-19
ELLIOTT, HOWARD C.	AM-07283-3
ELLIOTT, JAMES F.	OM-01792-2
ELLIOTT, JO E.	NU-00019-6
ELLIOTT, JO ELEANOR	NU-00097-2
ELLIOTT, PAUL R.	GM-11822-2
ELLIOTT, ROBERT L.	AM-09087-1
ELLIOTT, ROGERS	HD-01571-1
ELLIOTT, THOMAS H.	GM-10042-3
ELLIOTT, WILLARD B.	GM-06241-7
ELLIOTT, WILLARD B.	GM-12382-1
ELLIOTT, WILLIAM H.	HE-07878-3
ELLIS, DAVID W.	GM-10805-3
ELLIS, F. HARRY, Jr.	AM-05457-4
ELLIS, FRED W.	MH-01420-9
ELLIS, JOHN T.	AM-06805-4
ELLIS, LAURENCE B.	HF-00442-17
ELLIS, NORMAN R.	MH-10724-1
ELLIS, RICHARD A.	GM-08380-5
ELLIS, SYDNEY	NB-01657-8
ELLIS, SYDNEY	NB-02622-5
ELLISON, EDWIN H.	AM-04150-6
ELLISON, LOIS T.	HE-09277-1
ELLISON, ROBERT G.	HF-02562-9
ELLISON, ROBERT G.	HF-05432-5
ELLISON, ROBERT G.	HE-09083-1
ELLISON, ROSE R.	CA-07198-3
ELLISON, SOLON A.	DE-01932-2
ELLSON, DOUGLAS G.	HD-00694-5
ELMER, ELIZABETH	OM-00880-3
ELMORE, DONALD T.	HE-07062-2
ELONEN, ANNA S.	MH-08392-1
EL-SAYED, M.A.	GM-10454-3
EL-SAYED, SAYED Z.	FS-00042-2
ELSBACH, PETER	AM-05472-4
ELSDON-DEW, RONALD	AI-01592-9
ELSNER, ROBERT W.	HF-08323-2
ELSON, DAVID	GM-12588-1
ELWOOD, J. CLINT	CA-06194-3
ELWYN, DAVID H.	AM-07556-3
ELY, CHARLES A.	HD-01143-1
EMANUEL, DEAN A.	OH-00036-5
EMANUEL, DEAN A.	OH-00153-3
EMERSON, CHARLES P.	CA-05773-5
EMERSON, GLADYS A.	AM-05219-4
EMERSON, KENDALL, Jr.	HD-00594-3
EMERSON, MERLE T.	GM-12408-1
EMERSON, WILLIAM H.	DE-01357-4
EMERY, ARTHUR J., Jr.	GM-05874-7
EMERY, THOMAS F.	GM-09709-4
EMMANUEL, GEORGE E.	HE-05757-5
EMMEL, VICTOR M.	AM-00903-10
EMMERS, RAIMOND	NB-03266-5
ENDE, NORMAN	HE-06567-4
ENDERS, JOHN F.	AI-01992-8
ENDICOTT, JOHN F.	AM-08737-1
Endocrine Labs.	Contr. CA-65-592
ENERSON, DANIEL M.	HF-07934-3
ENGBERG, E.J.	OM-01701-1
ENGBRING, NORMAN H.	AM-08932-1
ENGEL, ERIC	GM-11615-2
ENGEL, GEORGE L.	MH-00750-12
ENGEL, LEWIS L.	CA-01393-15
ENGEL, LEWIS L.	CA-02421-12
ENGEL, RUDOLF C.H.	NB-03166-5
ENGEL, WILLIAM	HM-00294-2
ENGELBERG, HYMAN	HF-02164-10
ENGELBRECHT, R.S.	WP-00047-4
ENGELBRECHT, RICHARD S.	WP-00017-6
ENGELBRECHT, RICHARD S.	WP-00640-2
ENGELHARDT, DAVID M.	MH-05090-5
ENGELHARDT, DAVID M.	MH-05518-4
ENGER, PER S.	NB-03405-3
ENGLANDER, S. WALTER	AM-07853-2
ENGLARD, SASHA	GM-04428-9
ENGLE, RALPH L., Jr.	CA-01905-13
ENGLE, RALPH L., Jr.	CA-07968-1
ENGLEBERG, JOSEPH	CA-06835-3
ENGLERT, EDWIN, Jr.	AM-08708-1
Engles Hamstery	Contr. CA-65-590
ENGLESBERG, ELLIS	GM-10165-3
ENGLISH, HAROLD M.	OM-01963-1
ENGLISH, THOMAS S.	WP-00803-1
ENGSTROM, WILLIAM W.	AM-01200-12
ENGSTROM, WILLIAM W.	FR-00058-4
ENLOW, DONALD H.	DE-01903-2
ENNIS, HERBERT L.	GM-12359-1
ENNS, WILBUR R.	WP-00718-1
ENOCH, JAY M.	NB-02168-6
ENOMOTO, MAKOTO	TW-00120-1
ENOS, FRANCIS A.	OM-01242-1
ENRIGHT, JOHN B.	AI-06316-1
ENROTH-CUGELL, CHRISTINA A.E.	NB-02208-5
ENSIGN, JERALD C.	AI-06506-1
ENSLEIN, KURT	GM-12015-2
ENTNER, NATHAN	AI-01861-8
ENTNER, NATHAN	AI-04540-4
ENTWISLE, DORIS R.	HD-00921-4
ENTWISLE, GEORGE	FR-00153-1
EPHRUSSI-TAYLOR, HARRIETT	GM-09917-4
EPLING, GLENWOOD P.	GM-07188-4
Epoxylite Corp.	Contr. DE-64-548
EPP, EDWARD R.	RH-00340-1
EPSTEIN, ALAN N.	NB-03469-4
EPSTEIN, AUBREY	NB-03952-2
EPSTEIN, FRANKLIN H.	HE-00834-15
EPSTEIN, FREDERICK H.	HE-08481-2
EPSTEIN, HERMAN T.	GM-06344-6
EPSTEIN, JOHN H.	CA-06386-4
EPSTEIN, MICHAEL A.	CA-06407-2
EPSTEIN, SEYMOUR	MH-01293-9
EPSTEIN, WALLACE V.	AM-01299-9
EPSTEIN, WILLIAM	MH-04153-5
EPSTEIN, WILLIAM L.	AM-07939-4
EPSTEIN, WILLIAM I.	OH-00185-2
EPSTEIN, WILLIAM W.	AI-04797-3
EPSTEIN, WILLIAM W.	NB-04313-3
ERAUSQUIN, JORGE	DE-02290-1
ERBE, WILLIAM	CH-00067-2
ERDOS, ERVIN G.	HE-08764-2
ERDOS, ERVIN B.	NB-05196-2
ERICKSON, CYRUS C.	HD-00247-5
ERICKSON, ROBERT P.	NB-04793-2
ERICSSON, YNGVE	DE-01654-3
ERIKSEN, CHARLES W.	MH-01206-9
ERIKSEN, STUART P.	AM-07146-2
ERLANGER, BERNARD F.	AM-03491-6
ERLANGER, BERNARD F.	GM-11805-8
ERLEBACHER, ALBERT	MH-08966-1
ERNST, RICHARD W.	HE-08585-3
ERRERA, MAURICE L.	GM-06214-6
ERSHOFF, BENJAMIN H.	DE-01961-2
ERSLEV, ALLAN J.	AM-08074-2
ERSLEV, ALLAN J.	HE-04612-6
ERSLEV, ALLAN J.	HE-06374-5
ERULKAR, SOLOMON D.	NB-02941-6
ERVIN, FRANK R.	MH-10326-1
ERVIN, FRANK R.	MH-10329-1
ESCALONA, SIBYLLE K.	HD-01155-1
ESCALONA, SIBYLLE K.	MH-05814-3
ESCHENBRENNER, ALLEN B.	CA-06222-3
ESCHER, DORIS J.W.	HE-04666-6
ESCHER, GEORGE C.	CA-03439-9
ESCHER, GEORGE C.	CA-03604-8
ESMOND, WILLIAM G.	GM-12058-2

ESMOND, WILLIAM G. HE-02618-9
ESPLIN, DON W. NB-00872-11
ESSENHIGH, ROBERT H AP-00397-1
ESSMAN, WALTER B. MH-08698-2
ESSNER, EDWARD S. AM-09409-1
ESTEP, HERSCHEL L. AM-07092-3
ESTEP, ROGER D. FR-00201-1
ESTES, FRANCES L. AP-00182-4
ESTES, FRANCES L. GM-09695-4
ETSTEN, BENJAMIN E. HE-01711-14
ETSTEN, BENJAMIN E. HE-06069-4
ETTELDORF, JAMES N. HE-00454-16
ETTINGER, MILTON G. HE-07944-3
EVANS, A. McCHESNEY CA-06800-3
EVANS, ALFRED S. AI-01299-9
EVANS, CHARLES A. CA-02668-10
EVANS, E. EDWARD AI-02693-7
EVANS, E. EDWARD AI-03492-5
EVANS, EDWARD S. AM-03150-6
EVANS, F. GAYNOR AM-03865-6
EVANS, HAROLD J. AM-08123-2
EVANS, HERBERT M. HD-01307-1
EVANS, JAMES B. AI-03565-4
EVANS, JOHN C. CA-07405-2
EVANS, JOHN M. HE-09679-1
EVANS, JOSEPH P. NB-04683-2
EVANS, JOSEPH P. NB-06323-1
EVANS, RALPH L. WP-00447-3
EVANS, ROBERT J. AM-06755-3
EVANS, ROBERT L. HF-03680-7
EVANS, ROBERT L. HF-08534-2
EVANS, SELBY H. MH-11730-1
EVANS, TOMMY AM-04419-6
EVERETT, MARK A. AM-02344-6
EVERETT, MARK A. AM-05278-4
EVERETT, NEWTON B GM-06309-7
EVERETT, NEWTON B. HE-02698-9
EVERSON, GLADYS J HD-00429-9
EWALT, JACK R. FR-05555-3
EWALT, JACK R. MH-05077-4
EWALT, JACK R. OM-01485-2
EWELL, RAYMOND FR-00126-2
EWING, BEN B. WP-00801-1
EWING, JAMES H. MH-10331-1
EWING, LARRY LARUE HD-00636-2
Excerpta Medica Fdn. Contr. HD-65-580
Excerpta Medica Fdn. Contr. LM-65-92
EXLINE, RALPH V. MH-10746-1
EYE, J. DAVID WP-00693-1
EYE, JOHN D. WP-00065-3
EYLAR, EDWIN H. AM-07395-3
EYRING, EDWARD M. AM-06231-4
EYRING, HENRY GM-12862-1
EYZAGUIRRE, C.E. NB-04470-2
EYZAGUIRRE, CARLOS NB-05666-1
EZEKIEL, DAVID H. AI-05375-3
FABER, J. JOB AM-08894-1
FABER, JAN J. HD-00980-1
FACKLER, JOHN P., Jr. AM-07734-2
FAGAN, LEONARD F. HE-07875-3
FAGERSON, IRVING S. FF-00099-7
FAHLBERG, WILLSON J. AM-05716-3
FAILEY, ROBERT B., Jr. HE-04968-6
FAIN, A.M.A.J. AI-04870-3
FAIR, GORDON M. WP-00024-5
FAIRBAIRN, DONALD AI-04953-3
FAIRHURST, CARL W. DE-01057-6
FAIRLEY, JAMES I GM-12380-1
FAIRLEY, JAMES I GM-12441-1
FAIRWEATHER, GEORGE W. OM-01259-2
FAJANS, STEFAN S. AM-02244-7
FALCONE, ALFONSO B. GM-05606-7
FALK, ISIDORE S. CH-00037-4
FALK, ISIDORE S. CH-00047-3
FALK, RAPHAEL GM-08258-4
FALKNER, FRANK HD-00482-6
FALLERS, LLOYD A. MH-08964-1
FALLIERS, CONSTANTINE J. AM-05963-3
FALLON, HAROLD J. AM-09000-1
FALOON, WILLIAM W. AM-05375-4
FALOON, WILLIAM W. AM-06902-3
FALOR, WILLIAM H. HE-07244-2
FALOR, WILLIAM H. HE-07253-3
FANCHER, JAMES A. AM-06031-3
FAND, IRWIN MH-07659-2
FAND, SALLY B. AM-07430-3
FANG, HARRY C.H. NB-03986-4
FANG, SHENG C. FF-00033-4
FANG, SHENG C. FF-00574-2
FANGUY, ROY C. HE-09050-14
FANKHAUSER, GERHARD GM-06946-5
FANKHAUSER, RUDOLF NB-01916-7
FANSHEL, DAVID OM-01999-1
FANT, C. GUNNER M. NB-04003-3
FANTA, PAUL E. CA-02240-10
FANTA, PAUL E. GM-11883-2
FANTZ, ROBERT L. HD-00314-2
FARAH, ALFRED E. AM-02232-7
FARAH, ALFRED E. HE-02835-9
FARAH, FUAD S. AI-02910-6
FARBER, EMMANUEL AM-05590-4
FARBER, EMMANUEL AM-05644-4
FARBER, EMMANUEL CA-06074-4
FARBER, EMMANUEL GM-10269-3
FARBER, EMMANUEL GM-12545-1
FARBER, EUGENE M. HE-03833-6
FARBER, PHILLIP A. HD-01400-1
FARBER, SAUL J. FR-05399-4
FARBER, SAUL J. HE-01270-13
FARBER, SEYMOUR M. HE-08491-3
FARBER, SIDNEY CA-06516-4
FARBER, SIDNEY FR-05526-3
FARELL, DAVID M. HD-00238-3
FARESE, ROBERT V AM-07376-3
FARINA, AMERIGO MH-06167-3
FARKAS, TIBOR G. AM-06966-4
FARLEY, BELMONT G. NB-05515-1
FARMER, DOUGLAS A. AM-04209-5
FARMER, THOMAS W. NB-03964-4
FARNELL, DANIEL R. HE-07730-2
FARNER, DONALD S. NB-01353-7
FARNES, PATRICIA CA-05226-6
FARNHAM, ANN E. AI-05733-2
FARNSWORTH, MARJORIE W HD-01240-9
FARNSWORTH, NORMAN R. CA-08228-1
FARNSWORTH, WELLS E. CA-02487-11
FARNSWORTH, WELLS E CA-07921-1
FARNUM, DONALD G. GM-12385-1
FAROUHAR, JOHN W. AM-05972-4
FAROUHAR, JOHN W. HE-08506-2
FAROUHAR, MARILYN G. AM-09090-1
FARR, ANDREW F. AM-07340-2
FARR, RICHARD S. AM-06229-3
FARRELL, JOSEPH B. WP-00742-1
FARRIS, BUFORD E., Jr. OM-01075-2
FASCIOLO, JUAN C. AM-09210-1
FASMAN, GERALD D. AM-05852-4
FATELEY, WILLIAM G. GM-11815-2
FATT, IRVING HE-06796-4
FAULKNER, JOHN A. GM-11266-3
FAULKNER, JOHN A. GM-12554-1
FAUST, RICHARD A. AI-04219-4
FAUST, ROBERT G. AM-07998-2
FAUST, SAMUEL D. WP-00206-5
FAUST, SAMUEL D. WP-00365-3
FAUST, SAMUEL D. WP-00860-1
FAUST, WILLIAM L. MH-08885-2
FAVILLE, KATHARINE NU-00127-1
FAVILLE, KATHERINE NU-00163-1
FAVOUR, CUTTING B. FR-00137-2
FAWCETT, DON W. GM-06729-7
Fdn. for Psychiatry Contr. MH-64-32
FEARY, THOMAS W. AI-06739-1
FEASTER, JOHN P. HD-00586-3
FEATHER, BEN W. MH-07465-3
FEATHERSTONE, ROBERT M. NB-03625-4
FEDER, NED GM-08139-4
Fed. American Society Ex. Bio. Contr. LM-65-1043
Federation of American Soc. Contr. LM-65-571
FEDERER, WALTER T. GM-05900-7
FEDERSPIEL, CHARLES F. GM-11934-2
FEDINEC, ALEXANDER A. NB-04542-3
FEENEY, ROBERT E. AI-03484-6
FEENEY, ROBERT E. HD-00122-2
FEFFER, MELVIN MH-07506-3
FEHER, GEORGE GM-13191-1
FEICK, JOHN R. GM-12209-1
FEIGEN, GEORGE A. HE-03693-6
FEIGENBAUM, ABRAHAM S. HE-07504-3
FEIGIN, IRWIN HE-02872-9
FEIGL, ERIC O. HE-09061-1
FEINBERG, HAROLD HF-08921-2
FEINBERG, IRWIN MH-10927-1
FEINBERG, ROBERT H. AM-07777-2
FEINBERG, SAMUEL M. AI-04234-4
FEINGOLD, BEN F. AI-01389-8
FEINGOLD, BEN F. AI-06188-2
FEINGOLD, DAVID S. AI-06313-1
FEINGOLD, DAVID S. GM-08820-4
FEINSTEIN, ALVAN R. CA-07155-2
FEINSTEIN, MAURICE B. NB-05063-2
FELDHUSEN, JOHN F. OM-00672-5
FELDMAN, ALBERT G. OM-00685-4
FELDMAN, ALBERT G. OM-01539-1
FELDMAN, DONALD AM-06138-3
FELDMAN, FELIX HE-03877-6
FELDMAN, GERALD L. NB-04116-3
FELDMAN, GERALD L. NB-04277-4
FELDMAN, HARRY A. CC-00118-1
FELDMAN, HARRY A. HE-06003-5
FELDMAN, JOSEPH D. AI-03900-4
FELDMAN, JOSEPH D. AI-04966-3
FELDMAN, MICHAEL CA-06165-4
FELDMAN, PAUL OM-00770-3
FELDMAN, ROBERT CD-00051-2
FELDMAN, ROBERT S. MH-01061-9
FELDMAN, SAMUEL M. MH-11653-1
FELDMAN, SAMUEL M. NB-03942-3
FELDMAN-MUHSAM, B. AI-01006-8
FELDSTEIN, AARON MH-06256-4
FELDSTEIN, AARON MH-07243-2
FELDSTONE, CHARLES HD-01102-1
FELIX, MARIE D. CA-08203-1
FELIX, R.H. FR-05388-4
FELL, COLIN HE-08829-2
FELLERS, FRANCIS X. AM-09278-1
FELLMAN, JACOB H. NB-01572-8
Fels Research Inst. Contr. HD-65-1011
Fels Research Inst. Contr. OD-65-1006
FELSHER, ZACHARY AM-02469-7
FELSON, BENJAMIN GM-12458-1
FELTON, FRANCES G. CC-00081-4
FELTS, WILLIAM J.L. AM-06233-3
FENICHEL, GERALD M. NB-05313-1
FENICHEL, I. ROBERT GM-11070-3
FENN, WALLACE O. GM-12791-1
FENNELL, ROBERT H., Jr. AM-07313-3
FENNELL, ROBERT H., Jr. HE-07442-3
FENNEMA, OWEN EF-00738-1
FENNINGER, LEONARD D. FR-00044-5
FENSTER, L. FREDERICK AM-07339-2
FENTON, PAUL F. HD-01227-13
FENTON, STUART W. FR-00225-1
FERENCZ, CHARLOTTE HF-08819-1
FERGUSON, ALBERT B., Jr. AM-01625-8
FERGUSON, DENZEL E. FS-00086-1
FERGUSON, DONALD J. AM-03247-7
FERGUSON, DONALD J. AM-07541-3
FERGUSON, DONALD J. HE-06010-5
FERGUSON, JAMES H. CA-07708-2
FERGUSON, JAMES H. CD-00022-8
FERGUSON, JAMES J., Jr. AM-07207-2
FERGUSON, JOHN H. HE-01510-12
FERNANDES, JOSE F. AI-05008-2
FERNANDEZ, CESAR NB-00682-11
FERNANDEZ, CESAR NB-01330-9
FERNANDEZ, NELSON A. AM-06032-4
FERNANDEZ-MORAN, HUMBERTO NB-04267-3
FERNBACH, DONALD J. CA-07357-1
FERRANS, VICTOR J. HF-06100-4
FERREBEE, J.W. AM-02215-7
FERREBEE, JOSEPH W. CA-05109-5
FERRELL, EDWARD S., Sr. HM-00430-1
FERRER, NATHANIEL G. NB-05414-1
FERRIER, PIERRE F HD-00999-1
FERRIS, BENJAMIN G., Jr. OH-00067-5
FERRIS, JAMES P. GM-13572-1
FERRISS, GREGORY S. HD-01824-2
FERRY, JOHN D. GM-10135-3
FERTIG, JOHN W. DE-00793-7
FESHBACH, SEYMOUR MH-10973-1
FESSAS, PHAEDON HE-04541-6
FESSEL, W. J. MH-07536-2
FESSENDEN, RALPH J. GM-10122-3
FESTINGER, LEON MH-07835-2
FETNER, ROBERT H. RH-00035-4
FETTERMAN, GEORGE H. HD-00659-6
FEVOLD, H. RICHARD AM-08386-2
FIALA, SILVIO CA-07618-2
FIDANZA, FLAMINIO HF-04677-6
FIEDLER, HOWARD T. OM-01842-1
Field Emission Contr. GM-64-71
FIELD, JAMES B. AM-06865-3
FIELD, JAMES B. AM-06955-3
FIELD, JAMES B. AM-08333-2
FIELD, MARK G. CH-00002-3
FIELD, RICHARD A. AM-04495-5
FIELD, RICHARD A. NB-04063-3

ALPHABETICAL LISTING OF INVESTIGATORS

FIELDS, WILLIAM S. HE-06298-5
FIELDS, WILLIAM S. NB-02389-8
FIELDSTEEL, A. HOWARD CA-07868-2
FIERRO-BENITEZ, RODRIGO HD-00362-2
FIERS, WALTER C. GM-11304-2
FIESCHI, CESARE NB-05017-1
FIESER, LOUIS F. CA-01696-13
FIFE, THOMAS H. GM-10613-3
FIGGE, FRANK H.J. CA-03580-8
FIGUEROA, WILLIAM G. GM-09053-4
FILLER, JUAN HE-03436-8
FILLER, ROBERT CA-05948-4
FILLER, ROBERT GM-12146-2
FILLEY, GILES F. HE-03191-8
FILLIOS, LOUIS C. HF-08418-2
FINBERG, LAURENCE NB-04700-3
FINCH, CLEMENT A. HE-06242-5
FINCH, STUART C. HE-08493-2
FINCK, ALFRED NB-05282-2
FINCK, HENRY GM-07896-5
FINE, JACOB HF-02014-11
FINE, JACOB HE-05547-5
FINE, SAMUEL RH-00361-1
FINGER, FRANK W MH-04920-5
FINGER, IRVING GM-12017-6
FINGER, KENNETH F. AM-08082-2
FINGERMAN, MILTON NB-00838-11
FINK, AUSTIN I. HE-06935-3
FINK, CHESTER W. AM-07238-2
FINK, MAX MH-11380-1
FINK, ROBERT M. CA-01669-14
FINKLE, ALEX L. HE-07389-3
FINKLE, RAYMOND RH-00308-2
FINLAND, MAXWELL AI-00023-16
FINLAND, MAXWELL AI-01695-8
FINLAND, MAXWELL FR-00076-3
FINLEY, HAROLD E. AI-00800-11
FINLEY, KNOX H. NB-03804-4
FINLEY, THEODORE N. HE-09491-1
FINLEY, WAYNE H. HD-00577-3
FINN, FRED F. OM-01765-1
FINN, SIDNEY B. DE-01852-3
FINN, SIDNEY B. DE-02138-1
FINNEGAN, RICHARD A. GM-11412-3
FINNERTY, FRANK A., Jr. HE-08171-3
FIOL, ROSA E. NB-04964-2
FIREHAMMER, BURTON D. AI-04376-1
FIRSCHEIN, HILLIARD E. AM-08978-1
FIRSHEIN, WILLIAM CA-06343-4
FISCHEL, EDWARD E. HF-02144-10
FISCHER, ANN MH-10688-1
FISCHER, EDMOND H. AM-07902-2
FISCHER, GLORIA J. MH-08438-3
FISCHER, GLORIA J. MH-10707-1
FISCHER, HARRY W. CA-06117-3
FISCHER, JANET J. HD-00632-3
FISCHER, JOHN L. MH-10619-1
FISCHER, JOHN L. MH-11502-1
FISCHER, THEODORE E. DE-01657-4
FISCHER, WILLIAM B. AM-02862-4
FISCHMAN, DONALD A GM-12518-1
FISH, BARBARA MH-04665-5
FISH, CHARLES J. WP-00023-5
FISHBEIN, HAROLD D. MH-11331-1
FISHER, ALAN E. MH-01951-8
FISHER, ALAN F. MH-05822-3
FISHER, BERNARD AM-00369-13
FISHER, BERNARD AM-04451-5
FISHER, BERNARD CA-05716-5
FISHER, BERNARD CA-05949-4
FISHER, BERNARD HE-07822-3
FISHER, C. MILLER NB-05152-2
FISHER, CHARLES MH-03267-6
FISHER, DELBERT A. AM-04822-5
FISHER, DELBERT A. AM-08378-2
FISHER, EARL, Jr. NB-03215-5
FISHER, EDWIN R. CA-03731-8
FISHER, EDWIN R. CA-05195-6
FISHER, EDWIN R. CA-06670-3
FISHER, FRANK M., Jr. GM-12263-1
FISHER, GERALD T. AP-00325-1
FISHER, GERALD T. WP-00871-1
FISHER, HANS AM-04904-5
FISHER, HANS HE-03178-8
FISHER, HAROLD W. CA-07787-1
FISHER, HARVEY F. GM-11998-2
FISHER, J. PROCHAZKA AM-09713-1
FISHER, JAMES R. GM-11907-2
FISHER, JAMES W. AM-02973-6
FISHER, JOHN H. AM-06939-3
FISHER, LYMAN M. HF-05868-5
FISHER, SEYMOUR MH-05761-4
FISHER, SEYMOUR MH-08954-2
FISHER, THELMA N. AI-02891-5
FISHMAN, ALFRED P. HF-08015-2
FISHMAN, WILLIAM H. CA-07538-2
FISHMAN, WILLIAM H. CA-09734-5
FISKE, VIRGINIA M. NB-01556-8
FITCH, COY D. AM-03615-6
FITCH, COY D. AM-04308-5
FITCH, COY D NB-04339-3
FITCH, FRANK W AI-04197-4
FITCH, WALTER M NB-04565-3
FITZ, REGINALD H. FR-05583-1
FITZGERALD, GEORGE P. FF-00493-2
FITZGERALD, GEORGE P. WP-00297-4
FITZGERALD, LAURENCE R. HD-01848-1
FITZGERALD, PATRICK J. AM-05556-4
FITZGERALD, PATRICK J. CA-04081-4
FITZGERALD, T.C. GM-12570-1
FITZHUGH, KATHLEEN B HD-01811-6
FITZPATRICK, HUGH F. HE-06612-3
FITZPATRICK, MARTIN J. HE-07607-3
FITZPATRICK, MARTIN J. HE-09458-1
FITZPATRICK, THOMAS B. CA-05003-7
FITZPATRICK, THOMAS B. CA-05010-6
FIXMAN, MARSHALL GM-09153-4
FLACKE, WERNER HE-09398-1
FLACKE, WERNER NB-03320-5
FLAGLE, CHARLES D. HM-00279-1
FLAKS, JOEL G. AI-03899-5
FLANAGAN, C. LARKIN HE-05860-5
FLANAGAN, JOHN C. HD-00327-7
FLANAGAN, JOHN F. AI-05010-3
FLANIGAN, NORBERT J. NB-05267-2
FLAUMENHAFT, EUGENE GM-12340-1
FLAX, MARTIN H. AI-05550-3
FLEISCH, HERBERT A. AM-07266-3
FLEISCHER, EVERLY B. AM-05785-4
FLEISCHER, SIDNEY GM-12831-1
FLEISCHMAJER, RAUL AM-08127-2
FLEISHER, GERALD A. AM-06694-3
FLEISHMAN, EDWIN A. AC-00222-1
FLEMING, DAVID G. NB-06032-1
FLEMING, MARIE C. NB-05109-3
FLEMING, MARY A., SISTER CA-07809-1
FLEMING, WILLARD C. FR-05305-4
FLEMING, WILLIAM W. NB-03034-5
FLESCH, PETER AM-07082-5
FLESHLER, BERTRAM AM-08780-1
FLETCHER, GILBERT H. CA-05654-5
FLETCHER, GILBERT H. CA-05874-4
FLETCHER, GILBERT H. CA-06294-4
FLETCHER, GILBERT H. CA-07913-2
FLETCHER, T. LLOYD AM-09264-1
FLETCHER, T. LLOYD CA-01744-13
FLEXER, ABRAHAM S. GM-11564-2
FLEXNER, LOUIS B. NB-00514-13
FLICK, JOHN A. AI-05962-2
FLIEDER, DONALD E. DE-01720-2
FLIEDER, DONALD E. FR-05324-4
FLINK, EDMUND B. AM-05578-4
FLINK, EDMUND B. NB-03152-5
FLINT, J.C. HD-00590-3
FLIPSE, ROBERT J. HD-00039-2
FLOCK, EUNICE V. AM-02780-7
FLOCK, EUNICE V. NB-04004-4
FLOCKS, RUBIN H. CA-07895-2
Florida Assn. Mental Health Contr. MH-65-630
FLORSHEIM, WARNER H. AM-04455-5
Flow Labs. Contr. AI-63-103
Flow Labs. Contr. AI-64-943
Flow Labs. Contr. AI-64-1169
Flow Labs., Inc. Contr. AI-65-568
Flow Labs. Contr. CA-65-634
Flow Labs. Contr. CA-65-1012
FLOWER, BARDWELL H. OM-01764-2
FLUHARTY, ARVAN I. AM-08463-2
FLYNN, JOHN P. MH-08936-2
FLYNN, ROBERT L. HM-00352-2
FLOM, MERTON C. NB-04242-3
FLOREY, ERNST NB-01451-8
FLUHARTY, ARVAN L. AM-06667-3
FLUHMANN, C. FREDERIC HD-00094-2
FOA, PIERO P AM-06034-5
FOGEL, ERNEST J. OM-01762-1
FOGEL, SEYMOUR GM-06979-6
FOGH, JORGEN E. CA-05883-4
FOLCH-PI, JORDI NB-00130-14
FOLCH-PI, JORDI NB-02840-5
FOLEY, JOHN F. AM-08724-1
FOLEY, JOHN M. MH-08878-2
FOLEY, MATTHEW F. OM-01060-3
FOLKMAN, MOSES J. CA-08185-1
FOLKOW, BJORN HE-05675-5
FOLLEY, S.J. HD-00724-1
FOLTZ, ELDON L. MH-02895-6
FOLTZ, FLOYD M. NB-05230-1
FOLTZ, VERNON D. EF-00129-6
FOMON, SAMUEL J. HD-00383-6
FONG, CHESTER DE-02068-2
FONG, CONRAD T.O. AM-05761-5
FONG, JACOB AI-01372-9
FONG, JACOB AI-03971-4
FONG, JACOB CA-08126-1
Food and Drug Res. Lab. Contr. CA-64-933
FOODEN, JACK GM-13113-1
FOOTE, BENJAMIN A. AI-04790-4
FOOTE, ROBERT H. GM-10263-3
FOOTE, W. DARRELL AM-05203-3
FOOTE, WARREN C. GM-11035-3
FOOTE, WARREN C. HD-00499-6
FORBES, ALEXANDER NB-02956-5
FORBES, ANNE P. HD-00705-1
FORBES, CLIFFORD GM-11848-2
FORBES, JOHN C. AM-07696-2
FORBES, P. DONALD CA-08493-1
FORBES, P. DONALD RH-00390-1
FORBES, THOMAS R. HD-00456-15
FORBES, WILLIAM F. RH-00392-1
FORD, AMASA B. NU-00067-3
FORD, DONALD H. NB-04568-2
FORDTRAN, JOHN S. AM-06506-3
FOREMAN, DARHL AM-03061-6
FORREST, EDWARD J. DE-01697-3
FORREST, EDWARD J. FR-05338-4
FORREST, IRENE S. MH-06305-4
FORRO, FREDERICK, Jr. CA-03860-8
FORSHAM, PETER H. AM-07379-3
FORSHAM, PETER H. AM-07654-2
FORSHAM, PETER H. FR-00079-3
FORSTER, FRANCIS M. NB-02592-4
FORSTER, FRANCIS M. NB-03360-4
FORSTER, FRANCIS M. NB-03645-3
FORSTER, OTHMAR TW-00092-2
FORSTER, RAYMOND R. GM-11950-2
FORSTER, ROBERT E. HE-04108-7
FORSTER, ROY P. HF-04457-7
FORSTHOEFEL, PAULINUS F. AM-06428-8
FORTE, JOHN G. AM-09173-1
FOSHEE, DONALD P. FR-00155-1
FOSHEE, DONALD P. NB-04934-2
FOSS, JOHN G. GM-11043-5
FOSTER, DANIEL W., CA-08269-4
FOSTER, GEORGE M. MH-10149-1
FOSTER, GEORGE M. MH-10160-1
FOSTER, GEORGE M. MH-10564-1
FOSTER, JACKSON W. AI-03564-5
FOSTER, JOHN H HF-05886-5
FOSTER, JOHN H. HE-06016-5
FOSTER, JOHN M. CA-05098-5
FOSTER, JOHN W. AI-01247-9
FOSTER, JOSEPH F. CA-02248-11
FOSTER, JOSEPH F. GM-10857-9
FOSTER, MORRIS AM-08167-2
FOSTER, MORRIS HD-01254-7
FOSTER, MORRIS HD-01259-5
FOSTER, ROBERT J. AM-02299-7
FOSTER, WILLIAM B. AI-02992-5
FOULKES, ERNEST C. HF-06250-4
FOUTS, JAMES R. CA-05648-5
FOUTS, JAMES R. GM-06034-7
FOWLER, HARRY HD-00910-5
FOWLER, NOBLE O. HE-03727-8
FOWLER, NOBLE O. HE-06307-4
FOWLER, WARD S. HE-03588-8
FOX, ALLEN S. GM-11777-2
FOX, ARTHUR C. HE-03312-8
FOX, CHARLES L., Jr. GM-08582-3
FOX, CLEMENT A. NB-05149-2
FOX, CLEMENT A. NB-05315-2
FOX, DAVID GM-12253-2
FOX, EDWARD O. CA-05822-4
FOX, EUGENE N. AI-04342-4
FOX, FREDERICK A. AM-09048-1
FOX, HAZEL M. AM-08846-1
FOX, HENRY M. MH-03634-5
FOX, IRVING AI-02887-3

FOX, IRVING AI-03821-4
FOX, IRVING AI-06083-1
FOX, IRVING GM-07152-3
FOX, IRWIN J. HE-08068-3
FOX, IRWIN J. HF-08873-2
FOX, J. EUGENE GM-09902-3
FOX, JOHN P. AI-03340-6
FOX, LAURETTA E. NB-04291-3
FOX, MARJORIE H. HE-07001-4
FOX, MAURICE S. AI-05388-3
FOX, ROBERT MH-08934-2
FOX, STEPHEN S. MH-10756-1
FOX, STEPHEN S. MH-11834-1
FOX, VERNELLE OM-01955-1
FOX, WALTER OM-02029-1
FOX, WALTER OM-00806-3
FOYE, WILLIAM O. RH-00297-2
FOZZARD, HARRY A. HE-09019-1
FRAENKEL, GIDEON GM-08686-4
FRAENKEL, GOTTFRIED S. AI-00533-14
FRAKE, CHARLES O. MH-06187-4
FRANCIS, BYRON F. OM-01541-1
FRANCIS, FAITH E. HD-01130-1
FRANCIS, FREDERICK J. EF-00567-2
FRANCIS, THOMAS, Jr. AI-05876-2
FRANCIS, THOMAS, Jr. CA-04571-7
FRANCIS, THOMAS, Jr. HE-09814-1
FRANCK, RICHARD W. GM-12758-1
FRANK, CHARLES W. HF-06548-3
FRANK, HILMER A. EF-00067-3
FRANK, HILMER A. EF-00136-4
FRANK, HOWARD A. HF-01984-11
FRANK, JEROME D. MH-04618-4
FRANK, LAWRENCE HE-04192-7
FRANK, LEONARD H. AI-04502-4
FRANK, MARTIN J. HE-09389-1
FRANK, NEDD R. OH-00100-3
FRANK, SIDNEY R. AP-00281-3
FRANKE, ERNST K. HF-03769-6
FRANKE, ERNST K. HE-08603-2
FRANKEL, FRED R. AI-05722-2
FRANKEL, HARRY M. HF-09657-1
FRANKEL, JOSEPH GM-11012-3
FRANKEL, SAM AM-02794-6
FRANKENBURG, WILLIAM K. HD-00318-6
FRANKLIN, DEAN L. HE-08337-2
FRANKLIN, EDWARD C. AM-02594-7
FRANKLIN, RALPH E. RH-00124-3
FRANKLIN, RICHARD M. AI-05320-3
FRANKS, ROBERT C. HD-01527-1
FRANCO-BROWDER, SALVADOR TW-00140-1
FRANTZ, ANDREW G. AM-04080-5
FRANTZ, IVAN D., Jr. HF-01874-12
FRANTZ, IVAN D., Jr. HF-07410-3
FRANTZ, IVAN D., Jr. HF-09894-1
FRANZ, JOHN M. AM-01469-8
FRANZBLAU, CARL AM-07697-2
FRANZEN, JAMES S. GM-10133-3
FRANZINI, JOSEPH B. WP-00246-6
FRANZL, ROBERT E. AI-03297-5
FRASER, ALEXANDER S. GM-11778-2
FRASER, DEAN AI-01854-8
FRASER, DEAN CA-02772-10
FRASER, ROBIN T. GM-12958-1
FRASER, RONALD C. HF-07027-4
FRASHER, WALLACE G., Jr. HF-08976-1
FRATIELLO, ANTHONY GM-11768-2
FRAYSER, REGINA NB-04285-4
FRAZIER, WILLIAM C. EF-00282-5
FREDA, VINCENT J. HD-00721-2
FREED, JEROME J. CA-05959-4
FREED, S. CHARLES HE-01006-14
FREED, VIRGIL H. EF-00105-4
FREED, VIRGIL H. ES-00040-2
FREED, VIRGIL H. WP-00477-3
FREEDBERG, A. STONE HF-04413-6
FREEDBERG, IRWIN M. AM-06183-3
FREEDLAND, RICHARD A. AM-04732-5
FREEDMAN, AARON CA-08500-1
FREEDMAN, BEN HE-07836-3
FREEDMAN, DANIEL X. MH-03363-6
FREEDMAN, DANIEL X. MH-07075-3
FREEDMAN, HOWARD H. CA-07981-1
FREEDMAN, LAWRENCE R. AI-04767-2
FREEDMAN, PHILIP AM-06826-3
FREEDMAN, ROBERT I. HE-09533-1
FREEMAN, GUSTAVE OH-00084-4
FREEMAN, HANS C. GM-10867-6
FREEMAN, HARRY MH-05089-4
FREEMAN, LESLIE W. NB-04389-3
FREEMAN, ROBERT B., Jr. MH-10691-1
FREEMAN, ROBERT G. NB-03689-4
FREEMAN, RUTH B. NU-00154-1
FREEMAN, SMITH AM-00666-11
FREEMAN, WALTER J. MH-06686-3
FREEMAN, WALTER J. NB-05035-2
FREGLY, MELVIN J. HF-03503-7
FREGLY, MELVIN J. HF-07466-3
FREI, EPHRAIM H. HF-08787-2
FREIMAN, DAVID G. CA-02936-9
FREIMAN, DAVID G. HF-09342-1
FREIMUTH, HENRY C. GM-12014-2
FREINKEL, NORBERT AM-01571-8
FREINKEL, RUTH K. GM-06271-7
FREIS, EDWARD D. HE-00720-15
FREISER, HENRY GM-10853-7
FREITAS, FLAVIO MACIEL DE TW-00088-2
FRENCH, ARTHUR B. AM-07120-3
FRENCH, DAVID H. GM-11287-2
FRENCH, DAVID M. AM-07380-2
FRENCH, DEXTER GM-08822-4
FRENCH, ELIZABETH G. MH-07083-4
FRENCH, FREDERIC A. CA-03287-7
FRENCH, GILBERT M. MH-08473-2
FRENCH, GORDON N. HE-05812-4
FRENCH, JOHN D. FR-00257-1
FRENCH, JOHN D. NB-02501-5
FRENCH, JOHN D. NB-02808-5
FRENCH, JOHN D. NB-04183-3
FRENCH, LYLE A. NB-04954-2
FRENCH, LYLE A. NB-00665-11
FRENCH, SAMUEL W. AM-05243-4
FRENK, SILVESTRE AM-01520-8
FRENKEL, ALBERT W. AI-02218-7
FRENKEL, EUGENE P. CA-03796-8
FRENKEL, EUGENE P. CA-06853-3
FRENKEL, JACOB K. AI-03344-5
FRENKEL, JACOB K. AI-04549-4
FRESCO, JACQUES R. GM-07654-5
FREUD, ANNA MH-05683-3
FREUND, MATTHEW HD-00538-4
FREUND, MATTHEW J. GM-06880-6
FREUND, MATTHEW J. HD-00488-7
FREUNDLICH, MARTIN GM-12448-1
FREY, CARL A. EF-00551-1
FRIBERG, LARS T. AP-00212-3
FRIDHANDLER, LOUIS AM-08571-2
FRIDHANDLER, LOUIS HD-01127-1
FRIDOVICH, IRWIN GM-10287-3
FRIED, GEORGE H. AM-05905-4
FRIED, JOSEF CA-07445-2
FRIED, MELVIN AM-02457-7
FRIEDBERG, CHARLES K. HE-09416-1
FRIEDBERG, CHARLES K. HE-01152-12
FRIEDE, REINHARD L. NB-06239-1
FRIEDELL, GILBERT H. CA-06993-3
FRIEDELL, HYMER L. CA-08034-1
FRIEDELL, MORRIS T. AM-08985-1
FRIEDEN, CARL GM-08117-5
FRIEDEN, EARL HD-01236-10
FRIEDEN, EARL HE-08344-2
FRIEDEN, EDWARD H. GM-12976-1
FRIEDENBERG, ZACHARY B. AM-08813-1
FRIEDERICI, HARTMANN H.R. AM-04365-5
FRIEDHOFF, ARNOLD J. MH-04664-5
FRIEDHOFF, ARNOLD J. MH-04669-5
FRIEDHOFF, ARNOLD J. MH-07961-2
FRIEDKIN, MORRIS E. CA-05997-4
FRIEDLANDER, SHELDON K. AP-00319-1
FRIEDMAN, ALEXANDER H. NB-06076-1
FRIEDMAN, ALFRED S. OM-00154-7
FRIEDMAN, ALFRED S. MH-03674-4
FRIEDMAN, ALFRED S. MH-10330-1
FRIEDMAN, BEN AM-09079-1
FRIEDMAN, EPHRAIM NB-05564-1
FRIEDMAN, EPHRAIM NB-06284-1
FRIEDMAN, HERBERT MH-10532-1
FRIEDMAN, IRA OM-01046-1
FRIEDMAN, JULIUS J. HE-04684-6
FRIEDMAN, LAWRENCE D. GM-11354-2
FRIEDMAN, LEO CA-06988-2
FRIEDMAN, LESTER CA-07909-1
FRIEDMAN, LESTER GM-11499-2
FRIEDMAN, LORRAINE AI-06701-1
FRIEDMAN, MAX M. HD-00467-9
FRIEDMAN, MEYER HF-00119-16
FRIEDMAN, MEYER HF-03429-6
FRIEDMAN, ORRIE M. CA-02130-12
FRIEDMAN, STANFORD B. MH-06163-3
FRIEDMAN, STANFORD B. MH-06352-3
FRIEDMAN, STANLEY AI-06345-1
FRIEDMANN, HERBERT C. AM-09134-1
FRIEDRICH, ERNST R. HD-00082-2
FRIEND, CHARLOTTE CA-02062-12
FRIEND, DALE G. MH-04586-5
Friends of Psychiatric Res. Contr. MH-65-987
FRIESEN, STANLEY R. CA-03292-9
FRIMPTER, GEORGE W. AM-08404-1
FRIOU, GEORGE J. AM-09703-1
FRISCH, ARTHUR W. AI-02461-6
FRISCH, DAVID M. GM-11057-3
FRISS, HENNING CH-00052-4
FRITTS, HARRY W., Jr. HE-02001-11
FRITZ, EDNA L. NU-00087-2
FRITZ, IRVING B. AM-01465-9
FRITZ, PAUL J. AM-08728-1
FRIZZI, GUIDO AI-03795-4
FRODYMA, MICHAEL M. GM-12925-1
FROEB, HERMAN F. HE-09261-2
FROESCH, E. RUDOLF AM-05387-4
FROHMAN, CHARLES E. MH-04816-5
FROHOLM, LEIF O. GM-09992-3
FROMM, GERHARD H. NB-04299-3
FROMM, HERBERT J. AM-01678-8
FROMM, PAUL O. NB-04125-3
FROMMER, GABRIEL P. MH-10852-1
FROMMER, JACK DE-01578-3
FROMMEYER, WALTER B., Jr. CA-03013-9
FRONTERA, JOSE G. NB-02576-4
FROST, HAROLD M. AM-04186-5
FROST, HENRY H. CH-00049-5
FRUEHAN, ALICE E. AM-08078-2
FRUHMAN, GEORGE J. CA-03071-9
FRUMIN, ABRAHAM M. AM-09593-1
FRUMIN, M. JACK NB-05410-2
FRUTON, JOSEPH S. GM-06452-6
FRY, EDWARD I. DE-01818-3
FRY, FRANCIS J. HE-05641-4
FRY, WILLIAM J. CA-07043-2
FRY, WILLIAM J. HE-09199-1
FRY, WILLIAM J. NB-01017-8
FRY, WILLIAM J. NB-01567-7
FRYDMAN, BENJAMIN J. GM-11973-2
FRYE, B.E. AM-05818-5
FRYE, WILLIAM W. TW-00148-5
FRYER, GIDEON W. OM-01258-1
FUCHS, VICTOR R. CH-00155-1
FUDENBERG, H. HUGH AM-08527-2
FUDENBERG, H. HUGH HF-05997-5
FUERSTENAU, DOUGLAS W. AP-00692-1
FUGO, NICHOLAS W. HD-00983-1
FUJIMOTO, GEORGE I. HE-02818-9
FUJIMOTO, JAMES M. AM-06515-3
FUJIMOTO, JAMES M. GM-05514-7
FUJITA, TAKUO AM-06458-3
FUKUTO, T. ROY CC-00038-9
FULFIHAN, FARID J.D. AI-05288-3
FULLER, JOHN L. MH-01775-8
FULLER, JOHN L. NB-05750-1
FULLER, MELVIN S. AI-06421-2
FULLER, R. CLINTON GM-10705-3
FULMER, THOMAS E. OM-01771-2
FULOP, MILFORD AM-05503-4
FULTON, GEORGE P. HE-06984-4
FULTON, JOHN T. DH-00003-5
FUNDERBURK, H. HANLY, Jr. WP-00636-2
FUNKE, ARTHUR S. OM-00977-4
FURCHGOTT, ROBERT F. HE-05237-6
FURCHTGOTT, ERNEST RH-00065-10
FURFINE, CHARLES S. AM-09350-1
FURLONG, N. BURR CA-04910-3
FURMAN, ROBERT H. HE-02528-9
FURSHPAN, EDWIN J. NB-03273-5
FURST, ARTHUR CA-07250-2
FURST, ARTHUR MH-06826-3
FURSTMAN, LAWRENCE DE-01810-3
FURTH, HANS G. HD-00219-3
FURTH, HANS G. MH-11355-1
FURTH, JACOB CA-06215-5
FURTH, JOHN J. GM-10390-3
FUSARO, RAMON M. AM-03964-5
FUSARO, RAMON M. AM-06841-3
FUSCALDO, KATHRYN E. AM-08061-2
FUSCO, MADELINE M. NB-02479-6
FUSON, NELSON DE-02105-1
FUTTERMAN, SIDNEY NB-02769-5
FUTTERWEIT, WALTER AM-08403-2
GABOUREL, JOHN D. CA-07753-2
GABRIEL, RICHARD F. FR-00008-3
GABRIELI, ELEMER R. AI-05271-3
GABRIELI, ELEMER R. GM-12662-1
GACEK, RICHARD R. NB-05623-1
GADBOYS, HOWARD L. HE-08824-2
GADSDEN, RICHARD H. NB-03632-4
GAEBLER, O.H. AM-01362-9
GAENSLER, EDWARD A. HE-05933-6

ALPHABETICAL LISTING OF INVESTIGATORS

GAETH, JOHN H. NB-04193-3
GAFFNEY, PAUL C. FR-00084-3
GAFFNEY, PAUL C. FR-05507-3
GAFFNEY, THOMAS HE-07392-3
GAGE, N.L. OM-01564-1
GAINER, HAROLD NB-05043-2
GAINER, JOSEPH H AI-04492-3
GAINOR, CHARLES CA-07703-2
GAL, EMERY M. AM-06021-4
GALAMBOS, JOHN T AM-08545-2
GALAMBOS, JOHN T. CA-04421-5
GALAMBOS, JOHN T. HE-04714-6
GALDSTON, MORTON HE-05256-6
GALDSTON, MORTON HE-09668-1
GALE, DAVID AI-05154-2
GALE, GLEN R. GM-09389-3
GALINDO, PEDRO AI-02984-6
GALINSKY, MAEDA J. MH-10555-1
GALL, JOSEPH G. GM-12427-1
GALLA, STEPHEN J. HE-06967-5
GALLAGHER, THOMAS F. CA-07304-2
GALLANT, DONALD M. MH-03701-6
Gallaudet College Contr. HD-65-21
Gallaudet College Contr. HD-65-645
GALLEGLY, M.E. AI-04617-4
GALLETTI, PIERRE M. HE-04749-6
GALLETTI, PIERRE M. HE-07920-3
GALLIE, THOMAS M., Jr. FR-00193-1
GALLOP, PAUL M. HE-04762-6
GALLUZZI, NICHOLAS J. HE-08891-1
GALSTON, ARTHUR W. GM-10376-3
GALTON, MICHAEL HD-00544-4
GALTON, VALERIE A. AM-05872-4
GAMBAL, DAVID AM-09624-1
GAMBAL, DAVID GM-13182-1
GAMBLE, JAMES L., Jr. AM-01775-8
GAMBLE, WALTER J. HE-09656-1
GAMBLE, WILBERT HE-08061-3
GAMES, PAUL A MH-10174-1
GANDER, JOHN E AM-09257-1
GANDY, HORTENSE M. AM-07328-2
GANGADHARAM, PATTISAPU R. TW-00101-2
GANI, JOSEPH M GM-13138-1
GANIS, FRANK M. AM-07816-2
GANN, DONALD S. AM-09054-2
GANONG, WILLIAM F. AM-04704-3
GANS, BENJAMIN J. DE-01157-5
GANS, CARL AC-00151-2
GANS, HENRY AM-09342-1
GANS, JOSEPH H. AM-05893-3
GANS, JOSEPH H. HE-06844-4
GANTNER, GEORGE E., Jr. GM-07219-5
GANTNER, GEORGE E., Jr. GM-12224-2
GANTT, CLARENCE L. HE-09720-1
GANTT, W. HORSLEY HE-06945-4
GANZ, LEO NB-04802-2
GARABEDIAN, GARABED A. AI-03812-4
GARABEDIAN, PETER G OM-01914-1
GARB, SOLOMON CA-06342-2
GARB, SOLOMON CA-07023-3
GARCIA, JOHN RH-00068-4
GARCIA, MANUEL CA-05810-4
GARCIA-AUSTT, ELIO NB-04382-2
GARCIA-BUNUEL, LUIS NB-06012-1
GARCIA-HERNANDEZ, MARIO HE-07993-3
GARCIA-PALMIERI, MARIO R. HE-04044-7
GARDIER, ROBERT W HE-08808-1
GARDINER, W.C., Jr. GM-12471-1
GARDNER, BEATRICE T. MH-08938-2
GARDNER, BILLIE L. OM-01968-1
GARDNER, D. BRUCE MH-08791-2
GARDNER, DUGALD L. HE-05173-5
GARDNER, EDWARD, Jr. AI-05805-1
GARDNER, ELDEN J. GM-09683-2
GARDNER, ERNEST FR-05384-4
GARDNER, ERNEST D. NB-00405-12
GARDNER, FRANK H. AM-00965-10
GARDNER, FRANK H. HF-08530-2
GARDNER, GEORGE E. MH-06335-3
GARDNER, GEORGE E. MH-10466-1
GARDNER, GEORGE E. OM-00811-4
GARDNER, KENNETH D., Jr. AM-06593-3
GARDNER, LYTT I. AM-02504-7
GARDNER, PETE D. GM-07861-5
GARDNER, R. ALLEN MH-11262-1
GARDNER, RILEY W. MH-05517-4
GARDNER, WILLIAM U. CA-00343-19
GAREN, ALAN GM-12487-1
GARFIELD, CLAUDE R. HE-09752-1
GARFINKEL, DAVID FR-00015-3

GARLAND, WILLIAM MH-07894-2
GARLAND, WILLIAM MH-11742-1
GARMEZY, NORMAN MH-06170-3
GARN, STANLEY M. AM-03816-6
GARN, STANLEY M. AM-08265-2
GARN, STANLEY M. DE-01294-5
GARNER, HARRY H. MH-03775-5
GARNER, HARRY H. MH-04545-5
GARNER, HAROLD R. AI-01571-8
GARNER, RAYMOND L. CA-06513-4
GARNER, WENDELL R. MH-11062-1
GARNET, JAMES D CA-07392-3
GARRET, MARTA CA-05983-3
GARRETT, EDWARD R. GM-09864-3
GARRETT, EDWARD R. GM-12099-2
GARRIGAN, OWEN W. NB-03085-5
GARSKOF, BERTRAM E. MH-11503-1
GARTH, RICHARD E. AM-06421-2
GARVER, JOHN C. FR-00226-1
GARVIN, JAMES E. CA-06681-3
GASIC, GABRIEL CA-07086-2
GASS, GEORGE H. CA-07124-3
GASSMAN, PAUL G. CA-07110-3
GAST, JOSEPH H. AC-00150-2
GASTAUT, HENRI MH-03258-6
GASTEIGER, EDGAR L., Jr. NB-04408-3
GASTEIGER, EDGAR L., Jr. NB-05381-1
GASTON, LAMONT W. AM-07954-2
GATES, ALLEN H. HD-00611-3
GATES, MARGUERITE J. NB-02390-7
GATES, MARSHALL NB-05639-1
GATES, PHILLIP H. OM-00522-5
GATT, SHIMON NB-02967-5
GAUDY, ANTHONY F., Jr. WP-00075-4
GAUDY, ANTHONY F., Jr. WP-00325-3
GAUDY, ANTHONY F., Jr. WP-00786-1
GAUDY, ELIZABETH T. AI-05401-3
GAUFIN, A.R. WP-00334-2
GAUFIN, ARDEN R. WP-00003-10
GAULT, FREDERICK P. MH-04163-5
GAUSH, CHARLES R. AI-05478-3
GAUTHIER, GERALDINE F. NB-05620-1
GAVAN, JAMES A. DE-02012-2
GAWIENOWSKI, ANTHONY M. AM-08071-1
GAWIENOWSKI, ANTHONY M. CA-07434-2
GAWRON, OSCAR GM-06245-7
GAY, ANDREW J. NB-03693-4
GAYLOR, JAMES L. AM-04505-5
GAZES, PETER C. HE-05973-5
GAZIOGLU, KUDDUSI M. OH-00209-1
GEARIEN, JAMES E. AM-06432-3
GEBHARD, PAUL H. MH-07742-3
GEDALIA, ITZHAC DE-01323-4
GEE, DAVID A. FR-05491-3
GEER, BLANCHE MH-09205-2
GEER, JACK C. HE-02549-9
GEER, JAMES H MH-08905-1
GEHRKE, CHARLES W. GM-08525-4
GEIDUSCHEK, E. PETER HD-01257-7
GEIGER, ARNOLD M. DE-02059-1
GEIGER, RUTH S. MH-07907-3
GEILL, TORBEN HE-08393-2
GEIS, GILBERT L. OM-00808-3
GEISERT, PAUL GM-12445-1
GEISMAN, JEAN R. RH-00173-3
GEISSMAN, T.A. GM-12004-2
GEISSMAN, T.A. GM-03667-11
GELB, ALVIN M. AM-09084-1
GELDARD, FRANK A. NB-04755-2
GELFAN, SAMUEL NB-04417-2
GELFAND, DONNA M. MH-08794-2
GELLER, DAVID M. GM-07023-6
GELLER, IRVING MH-10797-1
GELLER, IRVING MH-10853-1
GELLER, JACK AM-08436-2
GELLER, JACK CA-06574-2
GELLERT, ELIZABETH MH-07291-3
GELLHORN, ALFRED CA-02332-11
GELLHORN, ERNST MH-06552-4
GELLIS, SYDNEY S. CD-00002-6
GELLIS, SYDNEY S. FR-00103-2
GEMMELL, ROBERT S. EF-00717-1
GEMMILL, CHALMERS L. AM-00649-11
GEMZELL, CARL A. AM-06060-3
General Dynamics Corp. Contr. HE-65-1059
General Electric Co. Contr. MH-62-465
General Foods Corp. Contr. CA-63-1165
General Foods Corp. Contr. CA-64-1158

General Practitioner Res. Contr. MH-65-626
GENEST, JACQUES HE-06420-4
GENGHOF, DOROTHY S. AI-02236-7
GENGOZIAN, NAZARETH AM-09289-1
GENNARO, JOSEPH F., Jr. AC-00180-2
GENNARO, JOSEPH F., Jr. GM-12876-1
GENTILE, ARTHUR C. CA-04052-7
GENTRY, GLENN A. CA-06992-3
GEORGE, PHILIP AM-03187-9
GEORGE, PHILIP AM-04764-5
GEORGE, ROBERT NB-04499-3
GEORGE, W. ARTHUR DE-01676-3
George Washington University Contr. CA-64-515
George Washington University Contr. CA-65-567
George Washington University Contr. DRG-65-3
Georgetown University Contr. CA-62-143
Georgetown University Contr. CA-62-457
Georgetown University Contr. CA-65-53
GEORGHIOU, GEORGE P. GM-11880-2
GEORGI, CARL E. GM-09616-4
GEORGIADE, NICHOLAS G. AI-05601-2
GEORGIADE, NICHOLAS G. NB-01161-9
GEORGIAN, VLASIOS AM-05492-2
GEORGOPOULOS, BASIL S. NU-00150-1
GERALD, PARK S. HE-04706-6
GERALL, ARNOLD A. HD-00867-4
GERARD, HAROLD B. MH-11817-1
GERBER, NANCY N. AI-06230-1
GERBER, NANCY N. AI-06708-1
GERBODE, FRANK FR-05566-2
GERBODE, FRANK HE-06311-4
GERENCSER, VINCENT F. WP-00616-2
GERGELY, JOHN HE-05949-5
GERGEN, JOHN A. NB-03992-4
GERHARDT, PHILIPP AI-00619-12
GERHART, JOHN C. CA-07410-2
GERICKE, OTTO L. OM-01824-2
GERJUOY, HERBERT MH-10439-1
GERJUOY, HERBERT G. MH-10981-1
GERKEN, GEORGE M. MH-06647-3
GERMAN, JAMES L., III HD-00635-2
Germfree Life Res. Contr. CA-65-95
GERO, ALEXANDER NB-04554-2
GERONIMUS, LIPPMAN H. AI-03197-6
Gerontological Soc. Contr. HD-65-26
Gerontological Soc. Contr. HD-65-646
Gerontological Soc. Contr. HD-65-647
GERSH, EILEEN SUTTON GM-11379-2
GERSH, ISIDORE GM-11009-2
GERSHBEIN, LEON L. CA-04487-3
GERSHOFF, STANLEY N. AM-03056-5
GERSHOFF, STANLEY N. AM-07618-2
GERSHOFF, STANLEY N. AM-07725-2
GERSHON-COHEN, JACOB AM-03968-3
GERSHON-COHEN, JACOB CA-07084-2
GERSHON, HERMAN AI-05808-2
GERSHON, SAMUEL MH-11378-1
GERSHON, SAMUEL MH-11379-1
GERST, ELIZABETH C. HE-06253-5
GERST, PAUL H. HF-07039-4
GERSTEIN, GEORGE L. NB-05406-1
GERSTEN, CHARLES D. MH-11719
GERSTL, BRUNO NB-03821-4
GERSTNER, ROBERT DE-00238-9
GERTER, MENARD M. HE-04929-6
GERTLER, MENARD M HE-09151-1
GERTNER, SHELDON B. NB-05566-1
GESCHEIDER, GEORGE A. MH-11096-1
GESCHWIND, IRVING I. HD-00394-4
GESNER, BERTRAM M HF-09239-1
GESSEL, STANLEY P. WP-00743-1
GESSNER, PIOTR K. MH-07575-3
GESSNER, TERESA ES-00013-2
GEST, HOWARD AI-02640-7
GETTING, VLADO A. CH-00044-3
GETTY, ROBERT HD-00041-7
GETZ, GODFREY S. GM-13048-1
GETZIN, LOUIS W. ES-00087-1
GEWIRTZ, HAVA B. MH-04779-3
GEYER, JOHN C. WP-00444-3
GEYER, ROBERT P. CA-06537-4
GEZON, HORACE M. EF-00060-5

GHENT, ARTHUR W. GM-10899-3
GHENT, LILA MH-04109-5
GHIRETTI, FRANCESCO GM-04845-9
GHOLSON, ROBERT K. GM-10866-3
GIACOBINI, EZIO NB-04561-3
GIANNELLI, STANLEY, Jr. HE-08636-2
GIARMAN, NICHOLAS J. NB-00940-10
GIBBON, JOHN H., Jr. HE-03349-8
GIBBON, JOHN H., Jr. HF-04486-7
GIBBON, JOHN H., Jr. HE-05169-6
GIBBONS, IAN R. GM-12124-2
GIBBONS, RONALD J. DE-01471-4
GIBBS, GORDON E. AM-02987-6
GIBBS, GORDON E. AM-03154-7
GIBBS, GORDON E. AM-05749-3
GIBBS, JULIAN H. GM-10906-5
GIBBS, ROBERT H. AM-08539-2
GIBLETT, ELOISE R. HE-05780-5
GIBSON, DAVID M. HF-04219-7
GIBSON, FRANK W.E. AM-04632-4
GIBSON, JOHN G., II HE-08259-2
GIBSON, QUENTIN H. GM-11231-3
GIBSON, ROBERT D. HD-00171-4
GIBSON, ROBERT H. NB-06304-1
GIBSON, ROBERT W. MH-10889-1
GIDDINGS, J. CALVIN GM-10851-8
GIDDON, DONALD B. DE-02154-2
GIDEZ, LEWIS L. HE-02965-9
GIER, HERSCHEL T. GM-08878-3
GIESE, ARTHUR C. CA-03461-8
GIESE, ARTHUR C. GM-04578-9
GIFFORD, GEORGE E. AI-04361-4
GILBERT, ALBIN R. MH-10957-1
GILBERT, BENTLEY B. LM-00047-1
GILBERT, JAMES B. AM-08259-1
GILBERT, LAWRENCE I. AM-02818-7
GILBERT, ROBERT HD-00612-3
GILBERT, ROBERT P. HE-06266-5
GILBERTSON, JOHN R. HE-08642-2
GILBRECH, DONALD A. HF-07080-3
GILCHRIST, RICHARD K. CA-02282-11
GILDA, J. EDWARD HD-01152-2
GILDER, HELENA AM-05259-4
GILDER, HELENA AM-05854-3
GILFILLAN, ROBERT F. CA-08338-1
GILFILLAN, ROBERT F. HE-08484-3
GILFILLAN, RUTHERFORD S. HE-09615-1
GILHAM, PETER T. GM-11518-2
GILIBERTY, FRANK R. OM-01766-2
GILIBERTY, FRANK R. OM-02053-1
GILL, A.J. FR-05426-4
GILL, EDWARD W. NB-04355-3
GILL, MERTON M. MH-07424-2
GILLESPIE, HAZEL B. AI-04284-4
GILLESPIE, IAIN E. TW-00169-1
GILLESPIE, JAMES H. AI-06137-2
GILLETTE, DALE D. GM-10779-2
GILLETTE, RONALD W. GM-10108-3
GILLHAM, NICHOLAS W. GM-13199-1
GILLIES, ALASTAIR J. NB-04468-2
GILLIES, ROBERT R. AI-04833-3
GILLILAN, LOIS A. HE-06276-4
GILLIS, BERNARD T. AI-02923-6
GILLIS, CHARLES N. HE-07249-4
GILMORE, SHIRLEY A. NB-04761-2
GILMOUR, CAMPBELL M. AI-00224-13
GILMOUR, CAMBELL M. GM-10228-3
GILMOUR, MARION N. DE-00370-9
GILMOUR, MARION N. DE-00821-7
GILOW, HELMUTH M. CA-05252-5
GILSON, JOHN S. HE-08347-2
GILVARG, CHARLES AM-09058-1
GINSBERG, HAROLD S. AI-03620-5
GINSBERG, HAROLD S. AI-05731-2
GINSBERG, HAROLD S. CA-02790-10
GINSBURG, BENSON E. MH-03361-6
GINSBURG, JACK M. AM-05561-4
GINSKI, JOHN M. HE-07674-3
GIORDANO, CARMELO HE-05773-5
GIROUD, CLAUDE J.P. AM-04295-4
GISCLARD, J. BRENNAN HE-09467-1
GISH, CHARLES W. DH-00001-7
GISVOLD, OLE HE-06569-4
GITLER, CARLOS AM-07928-3
GITLIN, DAVID HD-00652-2
GITLIN, DAVID HD-01031-1
GITLIN, DAVID HD-01034-1
GITTELSOHN, ALAN CH-00154-1
GIUDICE, GIOVANNI TW-00199-1
GIUNTINI, CARLO HE-08340-2
GJERSTAD, GUNNAR MH-03518-4
GJESSING, E.C. AM-02024-5
GJESSING, LEIV R. MH-05726-4
GLABMAN, SHELDON AM-08455-2
GLADE, RICHARD W. GM-12217-2
GLADFELTER, WILBERT E. NB-04450-2
GLADSTONE, ARTHUR I. MH-10795-1
GLAGOV, SEYMOUR HE-05654-5
GLANTZ, PAUL J. AI-03144-6
GLASER, DONALD A. GM-12524-1
GLASER, DONALD A. GM-13244-1
GLASER, EDMUND M. NB-04184-3
GLASGOW, LOWELL A. AI-06388-1
GLASS, BERTRAM A. HE-04560-6
GLASS, BRYAN P. HD-01833-4
GLASS, GEORGE B.J. AM-00068-14
GLASS, LAUREL E. GM-06843-6
GLASS, ROBERT L. EF-00089-6
GLASSCOCK, WILFORD R. HE-02614-8
GLASSER, RICHARD L. HE-03755-7
GLASSMAN, EDWARD GM-08202-5
GLASSMAN, EPHRAIM HF-07885-2
GLAUSER, ELINOR M. HE-08752-2
GLAUSER, RUSSELL O. DE-02270-1
GLAUSER, STANLEY C. AM-08635-4
GLEITMAN, HENRY MH-10629-2
GLENCHUR, HARRY HE-10080-1
GLENN, JAMES F. CA-07387-2
GLENN, JOSEPH L. AM-07714-2
GLENN, RICHARD A. AP-00242-2
GLENN, WILLIAM W.L. HE-00851-15
GLENN, WILLIAM W.L. HE-04651-6
GLICK, BRUCE AI-03398-6
GLICK, LEONARD B. MH-10303-1
GLICK, DAVID GM-09227-4
GLICK, DAVID HF-06716-5
GLICK, R E GM-11337-4
GLICK, SEYMOUR M. AM-09219-1
GLICKMAN, IRVING DE-00646-7
GLICKMAN, IRVING DE-01714-3
GLICKSTEIN, MITCHELL MH-06722-3
GLIEDMAN, MARVIN L. AM-07482-3
GLIMCHER, MELVIN J. AM-06375-3
GLIXMAN, ALFRED F. MH-11369-1
GLOCKLIN, VERA C. NB-04668-3
GLOMSET, JOHN A. AM-05121-5
GLORIG, ARAM NB-05710-1
GLORIG, ARAM OH-00200-1
GLOTZER, DONALD J. AM-05398-3
GLOW, PETER H. NB-04427-3
GLOYNA, EARNEST F. WP-00488-1
GLUCKSBERG, SAM MH-10742-1
GLUECK, BERNARD C. MH-08870-1
GLUECK, BERNARD C., Jr. MH-04465-4
GLUECK, HELEN I. HE-02904-9
GLUECK, SHELDON MH-07286-3
GLUECKSOHN-WAELSCH, SALOME HD-00193-10
GLUSMAN, MURRAY MH-03660-6
GOCKE, DAVID J. AI-05162-3
GOCKE, THOMAS M. AP-00313-3
GODART, SABINE J. HE-08014-2
GODMAN, GABRIEL C. AI-05708-2
GOEBEL, WALTHER F. AI-03153-6
GOEPP, ROBERT A. RH-00268-2
GOERKE, L.S. FR-05442-4
GOERKE, LENOR S. HM-00354-2
GOETSCH, DENNIS D. NB-05243-1
GOETSCH, GERALD D. AM-05467-3
GOETZ, ALEXANDER AP-00017-7
GOETZ, FREDERICK C. AM-01556-9
GOETZ, FREDERICK C. AM-04412-5
GOETZ, KENNETH L. HE-08803-2
GOETZ, ROBERT H. HE-03743-7
GOFF, WILLIAM R. MH-05286-4
GOFFMAN, IRWIN W. MH-09194-2
GOFMAN, JOHN HF-02029-11
GOKCEN, MUHARREM CA-07329-2
GOLAND, PHILIP DE-01950-2
GOLD, ALLEN M. GM-10513-3
GOLD, ELI AI-05570-3
GOLD, MARTIN AM-08475-2
GOLD, MARVIN GM-13544-1
GOLDBERG, ARTHUR F. CA-07178-3
GOLDBERG, BURTON D. AI-04140-4
GOLDBERG, DAVID HD-00609-2
GOLDBERG, H.J.V. DE-00903-6
GOLDBERG, HERBERT S. FF-00035-4
GOLDBERG, IRVING H. GM-12573-1
GOLDBERG, JAY M. NB-05237-2
GOLDBERG, JULIUS AI-01739-8
GOLDBERG, LEON I. HF-06491-4
GOLDBERG, MARTIN HF-07284-4
GOLDBERG, MARTIN OM-01527-1
GOLDBERG, STANLEY I. MH-07314-3
GOLDBERT, IRWIN FR-05592-1
GOLDBLATT, HARRY HE-07308-4
GOLDBLITH, SAMUEL A. EF-00006-7
GOLDBLITH, SAMUEL A. EF-00314-4
GOLDBLITH, SAMUEL A. RH-00061-10
GOLDEN, ABNER AM-05602-5
GOLDFARB, A. ROBERT AI-05386-4
GOLDFARB, ALLAN OM-01410-2
GOLDFARB, ALVIN I. OM-01614-2
GOLDFARB, STANLEY CA-08202-1
GOLDFARB, WILLIAM MH-05753-4
GOLDFEDER, ANNA CA-02565-11
GOLDFIELD, MARTIN CC-00028-3
GOLDFIELD, MARTIN AI-04397-4
GOLDFIEN, ALAN HD-00640-2
GOLDFINE, HOWARD AI-05079-3
GOLDHABER, PAUL CA-03695-8
GOLDHABER, PAUL DE-01298-5
GOLDIAMOND, ISRAEL MH-08876-2
GOLDIE, HORACE CA-02080-12
GOLDIE, MARK GM-12772-1
GOLDIE, MARK HD-00831-1
GOLDMAN, ARMOND S. HD-00735-2
GOLDMAN, DEXTER S. AI-01816-8
GOLDMAN, DEXTER S. AI-02416-7
GOLDMAN, HAROLD MH-07869-2
GOLDMAN, HAROLD NB-05526-1
GOLDMAN, HERBERT I. HD-01171-4
GOLDMAN, HERBERT I. HD-01572-1
GOLDMAN, HENRY M. DE-01584-4
GOLDMAN, HENRY M. DE-01719-3
GOLDMAN, LEON OH-00118-3
GOLDMAN, LEON RH-00024-4
GOLDMAN, RALPH HE-07852-3
GOLDMAN, RONALD MH-11050-1
GOLDMAN-FISLER, FRIEDA MH-05201-4
GOLDMANN, HANS NB-03638-2
GOLDNER, MARTIN G. AM-05668-5
GOLDNER, MARTIN G. AM-08106-2
GOLDNER, MARTIN G. CA-06209-5
GOLDNER, MARTIN G. FR-05503-3
GOLDRING, DAVID HE-06944-4
GOLDRING, SIDNEY NB-05292-2
GOLDSCHMIDT, ELISABETH GM-08310-4
GOLDSCHMIDT, EUGENE GM-12219-2
GOLDSCHMIDT, LEONTINE MH-11226-1
GOLDSCHMIDT, WALTER MH-04097-4
GOLDSMITH, CARL AM-07109-3
GOLDSMITH, CARL AM-09333-1
GOLDSMITH, DAVID J. GM-11728-2
GOLDSMITH, DAVID J. GM-11729-2
GOLDSMITH, GRACE A. AM-00001-19
GOLDSMITH, GRACE A. HE-04150-7
GOLDSMITH, MARY H. M. GM-08886-4
GOLDSMITH, TIMOTHY H. NB-03333-5
GOLDSMITH, RICHARD E. AM-01531-8
GOLDSTEIN, ARNOLD P. MH-10720-1
GOLDSTEIN, AVRAM CA-02797-9
GOLDSTEIN, DORA B. AM-08431-2
GOLDSTEIN, GERALD CA-03726-7
GOLDSTEIN, IRWIN J. AI-06795-1
GOLDSTEIN, IRWIN J. GM-12922-1
GOLDSTEIN, LEON AM-06511-3
GOLDSTEIN, LESTER GM-06774-6
GOLDSTEIN, LOUIS A. AM-02919-4
GOLDSTEIN, MAURICE S. AM-00396-13
GOLDSTEIN, MENEK MH-02717-7
GOLDSTEIN, MILTON N. CA-07477-2
GOLDSTEIN, MOISE H., Jr. NB-05143-2
GOLDSTEIN, NORMAN P. NB-03655-4
GOLDSTEIN, ROBERT HF-06966-4
GOLDSTEIN, ROBERT NB-03680-3
GOLDSTEIN, ROBERT NB-04799-2
GOLDSTEIN, SIDNEY HD-01550-1
GOLDSTONE, SANFORD MH-01121-10
GOLDTHWAIT, DAVID A. GM-06075-7
GOLDWATER, LEONARD J. FF-00091-4
GOLDWATER, LEONARD J. OH-00061-6
GOLDWATER, LEONARD J. OH-00079-3
GOLDWHITE, HAROLD CA-07182-2
GOLDWYN, ALVIN J. FR-00118-2
GOLDZIEHER, JOSEPH W. AM-03269-6
GOLDZIEHER, JOSEPH W. CA-06873-3
GOLL, DARREL E. GM-12488-1
GOLLAN, FRANK HE-06178-4
GOLLIN, EUGENE S. HD-01570-1
GOLLNICK, PHILIP D. HF-08262-2
GOLLUB, LEWIS R. MH-01604-8
GOLLUB, S. CA-07621-2
GOLTZ, ROBERT W. AM-09386-1
GOLUBOFF, BERNARD RH-00319-1
GOMBERG, EPHRAIM R. OM-01934-1

GOMBOS, ERVIN A. HF-07986-3
GOMEZ, OSCAR A.T. HE-08013-2
GOMEZ N., JUAN C. AI-05799-2
GOMOLL, ALLEN W. HF-07747-3
GONATAS, NICHOLAS K. NB-05572-1
GONDER, MAURICE J. CA-07744-2
GONICK, HARVEY C. AM-09364-1
GONZALEZ, I. ERNEST HF-08523-2
GONZALEZ, I. ERNEST HE-09551-1
GONZALEZ, LUIS L. AI-05874-2
GOOD, ERNEST E. FF-00107-2
GOOD, LAWRENCE R. OM-01851-2
GOOD, ROBERT A. AI-00798-11
GOOD, ROBERT A. AI-06151-2
GOOD, ROBERT A. HF-02085-11
GOOD, ROBERT A. HF-05662-5
GOOD, ROBERT A. NB-02042-7
GOOD, THOMAS A. AM-07163-3
GOODE, WILLIAM J. MH-11436-1
GOODENOUGH, DONALD E. MH-03885-5
GOODER, HARRY AI-04577-4
GOODGAL, SOL H. AI-04557-4
GOODGLASS, HAROLD MH-04187-5
GOODHEART, CLYDE R. AI-04644-3
GOODHILL, VICTOR NB-04019-3
GOODHILL, VICTOR NB-05369-2
GOODKIND, M. JAY HE-09498-1
GOODLIN, ROBERT C. HD-00226-3
GOODLIN, ROBERT C. HD-01287-3
GOODMAN, ALLEN D. AM-09232-1
GOODMAN, DEWITT S. AM-05968-4
GOODMAN, DONALD C. NB-01548-8
GOODMAN, FRED AI-03865-5
GOODMAN, GEORGE NB-02589-6
GOODMAN, GERALD M. OM-00992-3
GOODMAN, HAROLD S. AM-09170-1
GOODMAN, HENRY M. AM-06935-3
GOODMAN, JOEL W. AI-05664-2
GOODMAN, LOUIS S. NB-04553-2
GOODMAN, MORRIS GM-10634-2
GOODMAN, MURRAY AM-03868-6
GOODMAN, MURRAY GM-08974-4
GOODMAN, ROBERT N. AI-04143-3
GOODNER, CHARLES J. AM-07803-2
GOODNER, CHARLES J. HD-00405-3
GOODNER, ERNEST K. NB-04059-3
GOODNER, KENNETH AI-02897-6
GOODNIGHT, CLARENCE J. RH-00215-3
GOODNOW, JACQUELINE J. MH-06740-2
GOODWIN, WILLARD F. AM-08837-1
GOODWIN, WILLARD F. CA-06258-4
GOODYER, ALLAN V. HE-09563-1
GOOLISHIAN, HAROLD A. OM-00988-3
GORBMAN, AUBREY NB-04887-3
GORDAN, GILBERT S. CA-03489-9
GORDON, ALBERT S. HE-03357-8
GORDON, ARCHER S. HE-06511-5
GORDON, CHAD FF-00653-1
GORDON, DAVID B. HE-09442-1
GORDON, DAVID B. HE-09465-1
GORDON, EDGAR S. AM-09187-1
GORDON, EDWARD F AM-08776-1
GORDON, EDWIN E. AM-02598-7
GORDON, GERALD GM-11165-3
GORDON, JESSE E. MH-07416-1
GORDON, HARRY H. HD-01405-1
GORDON, HELMUT A. HF-07910-3
GORDON, HYMIE HF-06267-4
GORDON, IRVING AI-03874-5
GORDON, JULIUS A. GM-11345-2
GORDON, LAWRENCE H. NB-05298-2
GORDON, MALCOLM W. MH-05471-3
GORDON, MALCOLM W. NB-02800-5
GORDON, MILTON P. AI-03352-5
GORDON, MILTON P. GM-09171-4
GORDON, NORMAN B. MH-08087-2
GORDON, PAUL AM-05588-5
GORDON, ROBERT A. MH-10698-1
GORDON, RUTH E. AI-06276-1
GORE, IRA HF-07327-4
GORE, PEARL M. MH-11077-1
GORELICK, JACK OM-00294-6
GOREN, MAYER B. AI-06538-1
GORHAM, DONALD R. MH-10273-1
GORIN, GEORGE AM-06941-3
GORIN, GEORGE GM-11573-2
GORIN, GEORGE RH-00305-2
GORINI, LUIGI AI-02011-8
GORLIN, RICHARD HE-08591-1
GORLIN, ROBERT J. DE-01770-3
GORMAN, JOHN G. HE-10040-1
GORMSEN, JOHANNES TW-00097-2

GORSKI, JACK AM-06327-4
GORSKI, ROGER A. HD-01182-3
GORSTEIN, FRED HF-08537-2
GOSS, CHARLES M. GM-12718-1
GOSS, CHARLES M. HE-00173-14
GOSS, RICHARD J. HD-00192-10
GOSSELIN, ROBERT E. GM-11598-2
GOSSETTE, ROBERT L. MH-11139-1
GOSSETTE, ROBERT L. MH-11806-1
GOSTING, LOUIS J. AM-05177-5
GOTH, ANDRES AM-08751-1
GOTT, VINCENT L. HF-04162-6
GOTT, VINCENT L. HF-08787-2
GOTTESMAN, IRVING I. MH-11398-1
GOTTFREDSON, DON M. MH-10716-1
GOTTFREDSON, DON M. MH-10717-1
GOTTFREDSON, DON M. OM-00823-3
GOTTFRIED, EUGENE L. HF-08971-2
GOTTLIEB, DAVID HD-00988-1
GOTTLIEB, FREDERICK J. GM-11084-3
GOTTLIEB, GILBERT HD-00878-4
GOTTLIEB, LEONARD S. AM-04165-5
GOTTLIEB, SYMOND R. HM-00369-1
GOTTSCHALK, ALEXANDER CA-08301-1
GOTTSCHALK, ALFRED GM-10917-3
GOTTSCHALK, CARL W. HE-02334-9
GOTTSCHALK, LOUIS A. MH-08282-2
GOTTSCHALL, GERTRUDE Y. HE-08747-2
GOTTSDANKER, ROBERT M. MH-10447-1
GOULD, BERNARD S. AM-01270-9
GOULD, EDWIN NR-04714-2
GOULD, IRA A. FF-00180-6
GOULD, IRA A. FF-00206-5
GOULD, R. GORDON HF-05360-6
GOULD, R. GORDON HF-08476-2
GOULDNER, ALVIN W MH-09189-3
GOURLEY, DESMOND R.H. AM-04718-5
GOUTERMAN, MARTIN P. GM-10833-3
GOVAN, DUNCAN E. AM-07632-2
GOVE, ROGER M. MH-06583-3
GOVEIA, LEONARD H. OM-01531-2
GOVIER, WILLIAM C. AM-08578-2
GOWAN, SISTER M. OLIVIA NU-00113-2
GOWEN, GEORGE F. HE-09309-1
GOWEN, JOHN W. RH-00328-2
GOWGIEL, JOSEPH M. DE-02079-2
GOYER, ROBERT A. AM-02923-7
GOYNE, JAMES B. OM-02070-1
GRABOWSKI, CASIMER T. HD-00641-2
GRACE, JAMES T. CA-07745-2
GRACE, JAMES T. FR-00262-1
GRACE, WILLIAM J. HM-00260-1
GRADY, HAROLD J. AM-08188-2
GRADY, HUGH G. AM-04387-5
GRAETZ, ROBERT E. OM-00889-3
GRAF, CARL J. NB-04344-2
GRAF, LISELOTTE CA-08498-1
GRAFF, R.J. OM-01807-1
GRAFF, SAMUEL GM-12883-1
GRAGG, LOGAN OM-01760-2
GRAGG, LOGAN, Jr. OM-01440-2
GRAHAM, ANGUS F. AI-02454-8
GRAHAM, BRUCE FR-05522-3
GRAHAM, BRUCE D. FR-00078-3
GRAHAM, DAVID T. MH-02011-8
GRAHAM, GEORGE G. AM-04635-5
GRAHAM, HELEN T. HD-01001-17
GRAHAM, HORACE D. EF-00615-1
GRAHAM, JAY F. AI-03047-6
GRAHAM, JOHN B. CA-05807-4
GRAHAM, JOHN B. CA-06036-3
GRAHAM, JOHN B. CA-09747-5
GRAHAM, JOHN B. HE-03140-9
GRAHAM, LEONARD A. HE-09746-1
GRAIG, FRANK A. AM-07814-2
GRAND, C.G. GM-10467-2
GRANDE, FRANCISCO AM-08929-1
GRANDE, FRANCISCO HE-04401-6
GRANICK, SAM GM-04922-9
GRANICK, SAMUEL OM-01537-2
GRANOFF, ALLAN AI-05343-3
GRANOFF, ALLAN CA-07055-3
GRANT, DAVID A MH-06792-3
GRANT, DAVID M GM-08521-5
GRANT, J. DOUGLAS MH-08970-1
GRANT, J. DOUGLAS OM-01616-1
GRANT, LESTER H. AM-07501-3
GRANT, MURRAY MH-09217-1
GRANT, ROALD N. CA-06750-1
GRANT, RONALD NR-04007-3
GRANT, W. MORTON NR-00218-13
GRANT, WILLIAM C., Jr. HD-01144-8

GRASSETTI, DAVIDE R. CA-07296-2
GRASSO, JOSEPH A. AM-08353-2
GRATCH, GERALD MH-11710-1
GRAVENSTEIN, JOACHIM S. HD-00083-2
GRAVES, DONALD J. GM-09587-4
GRAVES, THEODORE D. OM-01942-1
GRAY, CLARKE T. AI-05806-2
GRAY, DONALD J. HD-00377-8
GRAY, FRANK D., Jr. HF-03263-8
GRAY, FRANK D., Jr. HF-08574-2
GRAY, HARRY B CA-07016-3
GRAY, MARY J HD-01210-6
GRAY, PHILIP H. HD-00877-3
GRAY, ROBERT F. GM-11854-1
GRAY, SEYMOUR J. AM-08301-2
GRAY, SEYMOUR J. AM-08997-1
GRAYSTON, J. THOMAS NB-03144-5
GRAYZEL, JOSEPH HF-09388-1
GRECZ, NICHOLAS FF-00517-2
GREEN, CLOID D. HE-08159-3
GREEN, DAVID E GM-12847-1
GREEN, DAVID E HF-00458-16
GREEN, DAVID M NR-04949-2
GREEN, EARL L. FR-05545-3
GREEN, EDWARD J. MH-11195-1
GREEN, GARETH AI-06577-1
GREEN, HAROLD D. HF-00487-16
GREEN, HOWARD CA-06193-3
GREEN, IRA CA-04718-5
GREEN, JAMES A AM-05618-4
GREEN, JAMES A. HD-00610-3
GREEN, JAMES W. GM-12797-1
GREEN, JAMES W GM-11093-1
GREEN, JOHN H EF-00656-1
GREEN, MAURICE AI-01795-8
GREEN, MELVIN H. AI-04519-2
GREEN, MORRIS RH-00345-2
GREEN, ORVILLE C. HD-01218-2
GREEN, ROBERT H. AI-04335-4
GREEN, THOMAS H., Jr. CA-05806-4
GREEN, WILLIAM L. AM-06650-3
GREEN, WILLIAM T. HD-01201-6
GREENAWALT, JOHN W GM-12125-1
GREENBAUM, LOWELL M. AM-09393-2
GREENBERG, BERNARD AI-03498-5
GREENBERG, BERNARD GM-04958-9
GREENBERG, BERNARD G. CA-06122-3
GREENBERG BERNARD G. GM-12868-1
GREENBERG, DAVID M. CA-02915-9
GREENBERG, DAVID M. CA-03175-9
GREENBERG, G. ROBERT AM-01669-8
GREENBERG, GORDON Z. NB-05636-1
GREENBERG, JOSEPH CA-05687-5
GREENBERG, LOUIS D. AM-00645-11
GREENBERG, LOUIS D. AM-01373-8
GREENBERG, MICHAEL J. HF-09283-1
GREENBERG, MORTIMER S. AM-08722-1
GREENBERG, ROBERT E. NB-05131-2
GREENBERG, RUVEN MH-10372-1
GREENBERG, WAYNE V. FR-00061-4
GREENBLATT, IRWIN M. GM-10327-3
GREENBLATT, MILTON OM-01447-1
GREENBLATT, MILTON OM-01836-2
GREENBLATT, MILTON OM-02103-1
GREENBLATT, MILTON MH-03314-6
GREENBLATT, MILTON MH-04172-5
GREENBURG, LEONARD AP-00118-5
GREENBURG, LEONARD AP-00256-3
GREENBURG, LEONARD OM-00225-1
GREENE, DAVID G. HF-07539-3
GREENE, FRANK E. GM-12999-1
GREENE, HARRY S.N. CA-00918-17
GREENE, JACK P. GM-10313-2
GREENE, JOEL E. OM-00843-3
GREENE, JOHN W., Jr. HD-00437-2
GREENE, NORBERT D. GM-12661-1
GREENE, RONALD C. GM-10317-3
GREENER, EVAN H. DE-02160-1
GREENFIELD, JOSEPH C., Jr. HF-09711-1
GREENFIELD, LEONARD J. WP-00902-1
GREENGARD, OLGA CA-07037-3
GREENLAW, ROBERT H. HF-06840-3
GREENMAN, DAVID L. AM-09124-1
GREENSPAN, FRANCIS S. AM-04818-5
GREENWALD, GILBERT S. HD-00570-3
GREENWALD, GILBERT S. HD-00596-3
GREENWALT, TIBOR J. HE-05006-6
GREENWOOD, DONALD D NR-05492-1
GREEP, ROY O. AM-00292-12
GREEP, ROY O. DE-01058-6
GREEP, ROY O. FR-05318-4
GREER, MELVIN HD-01326-1

GREER, MONTE A. AM-01447-10
GREER, MONTE A. AM-02503-7
GREER, SHELDON HD-01827-1
GREGG, EARLE C. AM-06760-3
GREGG, JAMES H. GM-10138-3
GREGG, JOHN R. HD-01165-9
GREGG, THOMAS G. GM-12093-2
GREGOIRE, ADOLPHE T. HD-01402-1
GREGOR, HARRY P. GM-02934-14
GREGOR, HARRY P. GM-10273-3
GREGORIE, HENRY B., Jr. CA-07019-3
GREGORY, JOHN D. AM-04973-4
GREGORY, PAUL W. AM-05321-4
GREIF, ROGER L. AM-00786-11
GREIFF, DONALD AI-04137-4
GREISMAN, SHELDON E. HF-07280-4
GRENIER, JACQUES F. AM-03935-5
GRESHAM, GEOFFREY A. HF-06300-4
GRESSITT, J. LINSLEY AI-01723-8
GRESSITT, J. LINSLEY AI-06107-1
GREULICH, RICHARD C. GM-09748-3
GRICE, G. ROBERT MH-08033-2
GRIEM, MELVIN L. RH-00207-3
GRIEP, ROBERT J. HE-09753-1
GRIESEMER, RICHARD A. CA-08502-4
GRIESEMER, ROBERT D. AM-02523-7
GRIESHEIMER, JEAN B. OM-00893-3
GRIEVES, ROBERT B. WP-00702-1
GRIFFEN, ALLEN B. CA-04362-7
GRIFFIN, ANGUS M. FR-05359-4
GRIFFIN, BEVERLY S. CA-06066-4
GRIFFIN, GARY W. GM-11399-2
GRIFFIN, JAMES E. AM-06543-2
GRIFFITH, CHARLES A. AM-08094-2
GRIFFITH, THOMAS GM-10578-3
GRIFFITHS, HENRY J. AI-03165-6
GRIGGS, ROBERT C. OH-00064-6
GRILLO, HERMES C. CA-03638-9
GRILLO, MARIA A. AM-05676-3
GRILLO, MARY A. NB-03700-4
GRILLO, RAMON S. GM-12880-1
GRIM, EUGENE HF-02098-11
GRIM, RALPH E. WP-00399-2
GRIMES, B.P. OM-01693-2
GRIMSHAW, ALLEN MH-10429-1
GRIMSLEY, DOUGLAS L. MH-11281-1
GRIMSON, KEITH S. AM-06118-3
GRIMSON, KEITH S. HF-00763-14
GRINGS, WILLIAM W. MH-03916-6
GRINKER, ROY R., Sr. MH-05519-4
GRISHAM, JOE W. AM-07568-2
GRISOLIA, SANTIAGO AM-01855-11
GRISOLIA, SANTIAGO AI-03505-5
GRIZZLE, JAMES E. AM-07540-3
GRIZZLE, JAMES E. GM-11933-2
GROB, DAVID CA-05588-5
GROB, DAVID NB-03464-5
GROB, HOWARD S. HD-01541-1
GROBSTEIN, CLIFFORD GM-08719-4
GRODINS, FRED S. HE-01626-14
GRODSKY, GEROLD M. AM-06115-4
GROGAN, RAYMOND G. AI-05889-1
GROGAN, RAYMOND G. GM-11314-3
GROISSER, VICTOR W. CA-09761-5
GROLLMAN, ARTHUR HF-07916-3
GROLLMAN, ARTHUR P. AM-09310-1
GROLLMAN, SIGMUND HD-01516-1
GROMAN, NEAL B. AI-03391-6
GRONVALL, JOHN A. FR-05386-4
GROOM, DALE HE-04085-6
GROOVER, MARSHALL E., Jr. HF-07012-5
GROOVER, MARSHALL E., Jr. HF-08725-2
GROSS, CHARLES G. HD-01079-1
GROSS, JEROME AM-05142-5
GROSS, JEROME FR-05486-3
GROSS, LEO CA-04561-6
GROSS, LLEWELLYN Z. HM-00123-1
GROSS, MARTIN MH-03672-5
GROSS, MARTIN MH-10292-1
GROSS, NATHAN B. NB-05102-2
GROSS, PAUL CA-08033-1
GROSS, PAUL OH-00132-3
GROSS, PAUL R. GM-13560-1
GROSS, ROBERT E. HE-07130-4
GROSS, RUTH T. HD-00530-6
GROSS, SAMSON R. GM-02250-5
GROSS, STANLEY J. HD-00807-2
GROSS, W.B. AI-05418-3
GROSS, YUKIE T. NU-00089-2
GROSSER, BERNARD I. MH-06065-3
GROSSMAN, BURTON J. HF-03418-8
GROSSMAN, CHARLES M. HE-05501-5
GROSSMAN, LAWRENCE HD-01258-5
GROSSMAN, LOUIS IRWIN DE-01920-2
GROSSMAN, MORTON I. AM-04938-5
GROSSMAN, MORTON I. AM-08354-1
GROSSMAN, RICHARD C. DE-01856-3
GROSSMAN, ROBERT G. NB-05429-1
GROSSMAN, SEBASTIAN P. MH-10130-1
GROSSWEINER, LEONARD I GM-10038-3
GROSVENOR, CLARK E. AM-03637-6
GROTH, AARON H., Jr. CA-06164-4
GROTH, DONALD P. CA-03528-8
GROUPE, VINCENT CA-04313-6
GROVE, WILLIAM J. FR-05369-4
GROVER, ROBERT F. HE-06895-4
GROVER, ROBERT F. HF-08728-2
GROVER, WILLIAM L. OM-01707-2
GRUBER, CHARLES W. AP-00370-1
GRUEMER, HANNS-DIETER HD-00774-2
GRUEMER, HANNS-DIETER HD-00775-1
GRUENBERG, ERNEST M. MH-08609-1
GRUENWALD, PETER HD-00547-4
GRULA, EDWARD A. AI-02530-6
GRULA, EDWARD A. AI-05273-2
GRULEE, CLIFFORD G., Jr. FR-05408-4
GRUMBACH, MELVIN M. AM-06368-3
GRUMBACH, MELVIN M. HD-00374-9
GRUNBERG-MANAGO, MARIANNE CA-04580-5
GRUNDFEST, HARRY NB-03270-5
GRUNDFEST, HARRY NB-03728-4
GRUNDMANN, CHRISTOPH J. CA-07272-2
GRUNEBAUM, HENRY U. OM-01272-2
GRUPP, GUNTER HF-04013-7
GRYBOSKI, JOYCE D. HD-01309-1
GRYSKA, PAUL F. HF-07355-3
GUAL, CARLOS CA-04639-6
GUARINO, ARMAND J. GM-11485-2
GUBLER, CLARK J. AM-02448-7
GUBLER, CLARK J. MH-05314-4
GUBLER, CLARK J. MH-05314-14
GUCKER, FRANK T. AP-00367-1
GUEFT, BORIS AM-02967-7
GUERRA-GARCIA, ROGER TW-00096-2
GUEST, LESTER FF-00683-1
GUEST, M. MASON HF-01717-7
GUEST, M. MASON HF-06238-5
GUEST, M. MASON HE-09631-1
GUIDOTTI, GUIDO G. AM-05290-4
GUIDRY, DIEU-DONNE J. AI-05952-2
GUILD, WALTER R. GM-10965-5
GUILFORD, JOAN S. AC-00109-3
GUILFORD, JOAN S. AC-00141-2
GUILFORD, JOAN S. CD-00149-2
GUILLEMIN, ROGER AM-08290-2
GUILLERY, RAINER W. NB-05907-1
GUISS, RUSSELL L. OM-01647-2
GULLICK, HERBERT D. HF-06891-4
GUM, OREN B. AM-06142-3
GUMBEL, EMIL J. WP-00457-3
GUMNIT, ROBERT J NR-05466-1
GUNDERS, ARNON E. AI-05552-3
GUNDERSEN, KARE AM-04358-6
GUNDERSEN, KARE AM-06711-3
GUNN, CHESTERFIELD G., Jr. HF-03111-7
GUNN, SAMUEL A. CA-07004-2
GUNNAR, ROLF M. HF-08834-2
GUNNING, GERALD F. WP-00898-1
GUNSALUS, I.C. AM-00562-12
GUNTER, RALPH NB-05848-1
GUNTHER, FRANCIS A. FF-00029-4
GUNTHEROTH, WARREN G. HF-03998-7
GUNTHEROTH, WARREN G HF-07158-4
GUNZ, FREDERICK W. CA-03707-7
GURD, FRANK R.N. HF-05556-5
GURDJIAN, ELISHA S. HF-04765-6
GURDJIAN, ELISHA S. NB-02387-8
GURDJIAN, ELISHA S. NB-04335-3
GURDJIAN, ELISHA S. NB-04336-3
GURIN, SAMUEL FR-05415-4
GURLAND, JOHN CA-08086-1
GUSBERG, SAUL B. HD-00491-4
GUSTAFSSON, AKE GM-08877-4
GUSTAFSSON, BENGT E. AM-01933-8
GUSTILO, RAMON B. AM-08675-1
GUT, MARCEL AM-03419-6
GUT, MARCEL AM-07280-3
GUT, MARCEL HF-05266-5
GUTELIUS, MARGARET F. MH-09215-1
GUTH, PAUL H. AM-07794-2
GUTH, PAUL S. MH-10860-1
GUTH, SHERMAN I MH-10435-1
GUTHRIE, FRANK E ES-00044-1
GUTHRIE, ROBERT NB-05290-2
GUTHRIE, ROY D. GM-11508-2
GUTMAN, ALEXANDER B. AM-00162-14
GUTMANN, FELIX MH-06361-3
GUTMANN, HELMUT R. CA-02571-11
GUTSCHE, CARL D. AM-02398-8
GUTSCHE, CARL D. CA-03275-8
GUTSHALL, ROBERT W. AC-00224-1
GUTTENTAG, OTTO E GM-09981-3
GUTTES, EDMUND W. GM-11949-3
GUTTMAN, DAVID E. GM-12806-1
GUTTMAN, HELENE N. AI-06530-1
GUTTMAN, NORMAN MH-03917-5
GUTTMAN, NB-05963-2
GUTTMANN, RUTH J. CA-02449-11
GUYER, KENNETH F HE-09419-1
GUYLER, CATHRYN S. OM-01081-3
GUYTON, ARTHUR C. HF-00337-16
GUYTON, ARTHUR C. HF-04736-6
GUYTON, ARTHUR C. HE-08375-2
GUYMON, JAMES F. GM-11273-2
GUZ, ABRAHAM HF-06851-4
GUZE, LUCIEN B. AI-02257-7
GUZMAN, CESAR A. RH-00343-1
GYORGY, PAUL AM-05921-2
GYORGY, PAUL HD-00421-5
GYR, JOHN W. MH-04155-3
HAAHTI, EERO O.A. HF-06818-4
HAAKE, PAUL AM-06870-3
HAARSTAD, VERNON B. CA-03037-9
HAAS, J. EUGENE MH-11558-1
HABEL, ROBERT E. GM-13006-1
HABER, EDGAR AI-04967-3
HABER, RALPH N. MH-10753-1
HABERFIELD, PAUL AM-06834-3
HABIB, HENRY N. AM-09101-2
HABIF, DAVID V. CA-06601-3
HACK, MARVIN H. AM-09088-1
HACKEL, DONALD B AM-08949-1
HACKEL, DONALD B. HE-05875-5
HACKLER, L. ROSS EF-00689-1
HACKNEY, JACK D. HE-08529-2
HACKNEY, JACK D. OH-00155-2
HADD, HARRY E. AM-08486-2
HADDAD, HESKEL M. AM-09391-1
HADDAD, HESKEL M. NB-05825-1
HADDAD, MICHAEL N. CA-07833-2
HADDAD, RAEF K. MH-05440-4
HADDOW, ALEXANDER CA-03188-9
HADDOX, CHARLES H., Jr. HE-05286-3
HADDY, FRANCIS J. HE-06759-4
HADEK, ROBERT HD-00552-4
HAEBERLE, ANN HD-01484-1
HAFEZ, E.S.E. GM-10282-3
HAFEZ, E.S.E. HD-00585-3
HAFEZ, E.S.E. HD-01013-1
HAFS, HAROLD D. GM-10584-3
HAFS, HAROLD D. HD-01374-1
HAFT, DAVID E. AM-08320-3
HAFT, EVERETT E. DE-02299-1
HAGAMEN, WILBUR D. MH-01386-9
HAGEN, GEORGE L. CA-04890-6
HAGER, LOWELL P. GM-07768-5
HAGERMAN, DWAIN D. AM-07610-2
HAGERTY, ROBERT F. DE-00197-10
HAGGARD, ERNEST A. MH-00637-12
HAGIWARA, SUSUMU NB-03536-4
HAGLIN, JOHN HE-08847-2
HAGOPIAN, MIASNIG HE-08453-2
HAGUENAU, FRANCOISE CA-06202-3
HAHN, CLIFFORD P. AC-00033-3
HAHN, JEROME JAY AM-08093-2
HAHN, JOHN F NB-04177-3
HAHN, WILLIAM W. MH-10385-1
HAIDER, MANFRED TW-00156-1
HAIMOVICI, HENRY HE-03444-8
HAINES, CARLETON R. CA-03764-8
HAINES, THOMAS H. WP-00675-2
HAINING, JOSEPH L. RH-00238-3
HAKALA, MAIRE T. CA-04175-7
HAKEREM, GAD MH-07478-3
HALAC, ELIAS, Jr. AI-06644-1
HALAS, EDWARD S. MH-11150-1
HALASZ, NICHOLAS A. AM-07644-3
HALASZ, NICHOLAS A. AM-08088-2
HALDI, JOHN DE-01939-2
HALE, ALFRED R HE-04454-6
HALE, JOHN CA-01984-12
HALES, MILTON R. HE-02639-9
HALEY, ALBERT J. AI-03388-6
HALEY, LEANOR D. AI-05125-3
Halifax County Health Dept. Contr. DE-64-869

ALPHABETICAL LISTING OF INVESTIGATORS

HALKERSTON, IAN D.K.	AM-09045-1
HALL, ALBERT D.	HE-08657-1
HALL, B. VINCENT	HE-02775-8
HALL, BENJAMIN D.	GM-11895-3
HALL, C.W.	EF-00624-1
HALL, CALVIN	MH-10207-2
HALL, CECIL F.	CA-02171-14
HALL, CHARLES A.	AM-02808-5
HALL, CHARLES E.	GM-04833-8
HALL, CHARLES E.	HE-02703-8
HALL, CHARLES E.	HE-08054-2
HALL, EDWARD T.	MH-08045-1
HALL, H. DAVID	HD-00174-4
HALL, JAMES C.	AM-04045-6
HALL, JAMES D.	WP-00423-3
HALL, JAMES L.	NB-03822-2
HALL, JOHN B.	GM-10544-3
HALL, JOHN E.	AI-03356-5
HALL, LEO M.	HE-08006-5
HALL, PETER F.	AM-06459-3
HALL, ROSS H.	CA-04640-6
HALL, ROSS H.	CA-05697-4
HALL, THOMAS C.	CA-04739-6
HALL, W. KNOWLTON	HD-00353-4
HALL, WENDELL H.	AI-02471-7
HALL, WENDELL H.	AI-02873-5
HALL, WILLIAM J.	GM-10397-3
HALLER, J. ALEX., Jr.	HE-10047-1
HALLER, J. ALEX., Jr.	HE-08745-3
HALLER, J. ALEX., Jr.	HE-08746-2
HALLMAN, NIILO	HD-00428-3
HALLS, ALBERT A.	NB-05154-2
HALMANN, MARTIN M.	GM-05842-6
HALMI, NICHOLAS S.	AM-02463-7
HALPERN, SIDNEY	AI-06667-1
HALPERN, BRUCE P.	NB-04121-3
HALPERN, JACK	GM-10662-3
HALPERN, YEHESKEL S.	GM-10044-3
HALPRIN, KENNETH M.	CA-08190-1
HALVORSON, HARLYN O.	AI-01459-9
HALVORSON, HARLYN O.	AI-02896-6
HALVORSON, HARLYN O.	GM-12332-1
HAM, JOE S.	GM-12786-1
HAM, THOMAS H.	HE-01263-13
HAM, WILLIAM T., Jr.	FR-00016-3
HAMA, KIYOSHI	NB-03348-4
HAMA, KIYOSHI	NB-06052-1
HAMASAKI, DUCO I.	NB-04630-3
HAMASHIGE, SHINICHI	HD-00115-2
HAMBRICK, GEORGE W., Jr.	CA-02912-9
HAMBURG, DAVID A.	MH-10976-1
HAMBURGER, MORTON	AI-03523-5
HAMBURGER, ROBERT N.	AM-09207-1
HAMBURGER, VIKTOR	NB-05721-1
HAMBURGH, MAX	NB-01716-8
HAMDY, MOSTAFA K.	EF-00164-5
HAMEL, EARL G., Jr.	NB-05250-2
HAMERMAN, DAVID	AM-08729-1
HAMES, CURTIS G.	HE-03341-8
HAMILTON, CHARLES L.	MH-10179-1
HAMILTON, GORDON A.	GM-09585-4
HAMILTON, HENRY E.	AM-01380-9
HAMILTON, HOWARD L.	GM-10497-3
HAMILTON, RICHARD I.	GM-11192-2
HAMILTON, TERRELL H.	HD-00726-4
HAMLIN, HANNIBAL	NB-04209-3
HAMLIN, JAMES T., III	HE-07266-4
HAMLIN, KENNETH E., Jr.	CA-04758-7
HAMLIN, ROY M.	MH-10231-1
HAMMEL, EUGENE	MH-10148-1
HAMMEL, EUGENE A.	MH-07834-1
HAMMERSTEN, JAMES F.	CA-07231-1
HAMMES, GORDON G.	GM-07803-5
HAMMES, GORDON G.	GM-12050-1
HAMMES, GORDON G.	GM-12944-1
HAMMON, WILLIAM M.	AI-02686-7
HAMMON, WILLIAM M.	CA-04574-7
HAMMOND, CAROLYN W.	CA-06636-4
HAMMOND, DENMAN	AM-04048-6
HAMMOND, DENMAN	HE-09286-1
HAMMOND, E. ASHBY	LM-00018-1
HAMMOND, EARL G.	EF-00084-4
HAMMOND, G.S.	GM-03823-12
HAMMOND, GEORGE S.	GM-08847-4
HAMMOND, JAMES B.	AM-09663-1
HAMMOND, PAUL B.	EF-00481-2
HAMMOND, PAUL B.	OH-00082-4
HAMNER, KARL C.	GM-12061-2
HAMNER, KARL C.	GM-12729-1
HAMPEL, CHESTER W.	DE-01432-5
HAMPTON, JAMES C.	AM-06998-3
HAMPTON, JAMES W.	HE-07453-3
HAMPTON, JOHN K., Jr.	HE-06578-4
HAMPTON, JOHN K., Jr.	NB-04254-3
HAMRE, DOROTHY M.	AI-03292-6
HAMWI, GEORGE J.	FR-00034-5
HANAHAN, DONALD J.	GM-05519-8
HANAN, JOE J.	WP-00780-1
HANANIA, GEORGE I.H.	HE-04994-6
HANAWALT, PHILIP C.	GM-09901-4
HANDELMAN, STANLEY L.	DE-01600-3
HANDLER, EUGENE S.	CA-07977-1
HANDLER, JEROME S.	MH-11434-1
HANDLER, PHILIP	GM-00091-20
HANDLON, JOSEPH H.	MH-11104-1
HANENSON, IRWIN B.	HE-09669-1
HANENSON, IRWIN B.	HE-09747-1
HANKINSON, DENZEL J.	EF-00317-2
HANKS, JOHN H.	AI-02998-6
HANLON, C. ROLLINS	HE-03826-7
HANLON, C. ROLLINS	HE-06312-4
HANLON, MARY S.	GM-11390-2
HANNA, CALVIN	NB-04024-5
HANNA, CALVIN	NB-05076-2
HANNA, MELVIN W.	GM-09187-4
HANSCH, CORWIN	GM-07492-5
HANSEN, ANN C.	NU-00059-3
HANSEN, EDER L.	AI-00926-11
HANSEN, EDWARD L.	GM-07758-5
HANSEN, GARY	HM-00197-2
HANSEN, POUL M.T.	EF-00205-5
HANSEN, POUL M.T.	EF-00748-1
HANSEN, ROGER G.	GM-09316-4
HANSENS, ELTON J.	CC-00102-6
HANSHAW, JAMES B.	AI-04310-4
HANSON, EARLE W.	AI-06631-1
HANSON, LYLE E.	CC-00070-6
HANSON, RICHARD S.	GM-13064-1
HANSON, ROBERT P.	AI-00771-11
HANSON, ROBERT P.	AI-04725-4
HANSON, ROBERT P.	AI-05097-3
HANSON, ROGER W.	DE-01335-5
HARA, MASAUKI	HE-08244-2
HARADA, KENJI	AI-06299-1
HARARY, FRANK	MH-10834-1
HARARY, ISAAC	AM-02135-6
HARBER, LEONARD C.	OH-00206-1
HARBERT, FRED	NB-02035-7
HARBERT, FRED	NB-05082-1
HARBURY, HENRY A.	GM-07317-6
HARCUM, EUGENE R.	HD-00207-6
HARD, WALTER L.	FR-05421-4
HARDEN, K. ALBERT	AI-04819-3
HARDEN, K. ALBERT	FR-05361-4
HARDESTY, BOYD A.	AM-09143-1
HARDIN, ROBERT C.	FR-05372-4
HARDING, BOYD W.	CA-07057-3
HARDINGE, MERVYN G.	AM-08610-2
HARDINGE, MERVYN G.	MH-06347-2
HARDMAN, HAROLD F.	HE-08311-2
HARDMAN, JOHN K.	AI-06766-1
HARDY, ALBERT V.	FR-05553-3
HARDY, D. ELMO	GM-10640-3
HARDY, HARRIET L.	HD-01584-1
HARDY, JAMES C.	NB-02662-5
HARDY, JAMES D.	AM-05122-5
HARDY, JAMES D.	GM-10289-3
HARDY, JAMES D.	HE-06163-5
HARDY, JAMES D.	NB-04655-3
HARDY, JAMES D.	OH-00179-1
HARDY, PAUL H., Jr.	AI-02334-7
HARDY, WILLIAM G.	NB-03887-3
HARDYCK, CURTIS D.	MH-07570-2
HARE, JOHN D.	CA-07239-2
HARE, WILLIAM C.D.	FR-00120-1
HARGIS, WILLIAM J., Jr.	AI-02389-7
HARKEMA, REINARD	AI-05927-2
HARKEN, DWIGHT E.	HE-08698-2
HARKER, DAVID	AM-03942-6
HARKIN, JAMES C.	NB-04330-3
HARKINS, HENRY N.	AM-03898-14
HARKINS, HENRY N.	AM-04010-5
HARLAN, WILLIAM R.	FR-00065-3
HARLAN, WILLIAM R., Jr.	AM-07364-3
HARLEMAN, DONALD R.F.	WP-00711-1
HARLOW, HARRY F.	MH-04528-5
HARM, WALTER	GM-12813-1
HARMAN, DENHAM	HD-00977-2
HARMAN, DENHAM	HE-06979-4
HARMAN, DENHAM	HE-08175-2
HARMAN, DENHAM	HE-08387-2
HARMAN, PINCKNEY J.	DE-00586-9
HARMAN, PINCKNEY J.	HD-00195-9
HARMAN, PINCKNEY J.	NB-01634-7
HARMON, L.G.	EF-00015-3
HARMON, ROBERT E.	CA-06140-4
HARMON, ROBERT E.	CA-07333-2
HARMS, CLARENCE E.	AI-06679-1
HARNED, HERBERT S., Jr.	HD-00239-3
HAROLD, FRANKLIN M.	AI-03568-5
HARPER, ALFRED E.	AM-05718-4
HARPER, ALFRED E.	AM-08119-2
HARPER, JOHN C.	EF-00186-6
HARPER, PAUL V.	AM-03142-6
HARPST, JERRY A.	GM-12794-1
HARRIGAN, WILLIAM L.	OM-02060-1
HARRINGTON, ROBERT W., Jr.	CC-00101-8
HARRINGTON, RODNEY E.	GM-10491-3
HARRINGTON, WILLIAM F.	AM-04349-5
HARRINGTON, WILLIAM J.	AM-09001-1
HARRIS, A. SIDNEY	HE-01109-13
HARRIS, CHARLES	CA-06653-3
HARRIS, CHARLES S.	MH-10711-1
HARRIS, DANIEL L.	AM-09410-1
HARRIS, H. WILLIAM	AI-05311-3
HARRIS, JOHN B.	AM-08984-1
HARRIS, JOHN B.	HE-08235-2
HARRIS, JOHN E.	NB-01979-7
HARRIS, JOHN E.	NB-05145-1
HARRIS, JOHN W.	AM-00745-11
HARRIS, JOSEPH	MH-07692-3
HARRIS, LORIN E.	EF-00323-4
HARRIS, MARVIN	MH-10070-1
HARRIS, NORMAN O.	OH-00057-1
HARRIS, NORMAN O.	FR-05340-4
Harris Research Lab.	Contr. DE-64-530
HARRIS, ROBERT S.	DE-01438-4
HARRIS, RUTH C.	AM-04977-5
HARRIS, STANLEY	DE-02014-1
HARRIS, STANLEY C.	DE-00983-5
HARRIS, T.N.	HE-04598-6
HARRIS, THOMAS M.	GM-12848-1
HARRISON, DONALD C.	HE-09058-1
HARRISON, HAROLD F.	AM-00668-11
HARRISON, HOWARD N.	AI-06561-1
HARRISON, JOHN R.	NB-06241-1
HARRISON, ROBERT H.	MH-11103-1
HARRISON, TIMOTHY S.	AM-07252-3
HARRISON, TINSLEY R.	HE-05080-6
HARRISON, WILLIAM H.	GM-12614-1
HARRY, HAROLD W.	CC-00126-1
HARSHMAN, SIDNEY	AI-04280-1
HART, HIRAM	GM-11730-1
HART, HAROLD	GM-11775-2
HART, NATHAN H.	HE-09715-1
HART, SAMUEL A.	EF-00265-4
HARTE, THOMAS J.	OH-00057-1
HARTIALA, KAARLO J.W.	AM-06018-4
HARTLEY, ARNOLD M.	GM-12009-2
HARTLINE, HALDAN K.	NB-00864-10
HARTMAN, JOHN D.	EF-00262-3
HARTMAN, PAUL A.	EF-00112-8
HARTMAN, PHILIP E.	AI-01650-8
HARTMAN, RICHARD E.	GM-13555-1
HARTMAN, STANDISH C.	GM-06591-6
HARTMANN, ERNEST I.	MH-08715-2
HARTMANN, HENRIK A.	NB-01305-9
HARTMANN, J. FRANCIS	NB-05591-1
HARTMANN, JOHN R.	CA-04937-6
HARTMANN, ROBERT C.	HE-03509-8
HARTY, MICHAEL	AM-07823-2
Harvard College	Contr. CA-65-589
Harvard College	Contr. HD-65-1009
Harvard College	Contr. MH-65-998
HARVEY, A. McGEHEE	AI-01420-12
HARVEY, A. McGEHEE	NB-00894-10
HARVEY, HENRY S.	CD-00122-1
HARVEY, JOHN A.	MH-06348-4
HARVEY, RODNEY B.	HE-07002-4
HARVEY, W. PROCTOR	HE-03319-8
HARVEY, W. PROCTOR	HE-06508-4
HARVEY, WILLIAM R.	AI-04291-4
HARWAY, NORMAN I.	MH-10444-1
HARWOOD, H. JAMES	AI-03835-5
HARWOOD, ROBERT F.	AI-02253-7
HARWOOD, ROBERT F.	AI-04194-4
HARWOOD, T.H.	FR-05407-4
HASCHEMEYER, RUDY H.	GM-08518-5
HASEGAWA, JUNJI	AM-07275-5
HASEGAWA, JUNJI	CA-09791-5
HASELKORN, ROBERT	AI-04448-4
HASELKORN, ROBERT	AI-06279-1

HASELKORN, ROBERT GM-12344-1
HASH, JOHN H. AI-06712-1
HASKIN, HAROLD H. FF-00671-1
HASLER, ARTHUR D. WP-00236-3
HASLEWOOD, GEOFFREY A.D. AM-04303-5
HASS, GEORGE M. HF-03215-8
HASS, GEORGE M. HF-09295-1
HASS, GEORGE M. NB-04872-2
HASS, LOUIS F. AM-08130-2
HASSENPLUG, LULU W. NU-00020-6
HASSID, WILLIAM Z. AM-01418-9
HASSNER, ALFRED CA-04474-7
HASTINGS, A. BAIRD AM-03404-6
HATA, TOJU CA-05085-5
HATCH, FRED E. AM-09027-1
HATCH, FRED E., Jr. HE-07856-3
HATHAWAY, RALPH R. HD-01481-1
HATHAWAY, STARKE R. MH-04306-5
HATHAWAY, WILLIAM E. HD-01100-1
HAUGAARD, NIELS HF-01813-11
HAUN, CHARLES K. HD-00231-3
HAUPT, GEORGE J. HE-06496-3
HAURANI, FARID I. CA-05462-5
HAURANI, FARID I. CA-05554-5
HAUROWITZ, FELIX GM-01852-16
HAUS, ERHARD L.A. CA-05748-4
HAUSBERGER, FRANZ X. AM-01952-7
HAUSBERGER, FRANZ X. AM-05735-4
HAUSBERGER, FRANZ X. HE-04487-4
HAUSER, CHARLES R. CA-04455-7
HAUSER, PHILIP M. CH-00074-5
HAUT, ARTHUR CA-03400-8
HAUT, ARTHUR HE-08341-2
HAVAS, H. FRANCIS AI-06556-1
HAVEN, FRANCES L. CA-00669-17
HAVENS, LESTON L. MH-08112-3
HAVERBACK, BERNARD J. AM-01992-7
HAVERBACK, BERNARD J. AM-04683-5
HAVERBACK, BERNARD J. AM-08293-2
HAVLENA, JOAN M. RH-00306-2
Hawaii Dept. of Health Contr. MH-65-30
Hawaii University Contr. HE-65-38
Hawaii University Contr. CA-65-42
HAWKINS, DAVID R. MH-06633-3
HAWKINS, EVA K. GM-12377-1
HAWKINS, JOSEPH E., Jr. NB-05065-2
HAWKINS, RICHARD T. CA-06587-3
HAWTHORNE, BETTY E. AM-08267-2
HAWTHORNE, EDWARD W. HF-01015-14
HAWTHORNE, M. FREDERICK CA-06773-3
HAY, ELIZABETH D. HD-00143-6
HAYAISHI, OSAMU CA-04222-8
HAYAKAWA, ICHIYA AI-06043-2
HAYASHI, JAMES A. AI-04777-4
HAYASHI, MASAKI GM-12934-1
HAYASHI, T. TERRY HD-01890-1
HAYASHI, YUJIRO GM-10641-3
HAYASHIDA, TETSUO AM-03550-6
HAYDEN, JESS, Jr. HD-00166-3
HAYDEN, ROYAL C., Jr. NB-02838-5
HAYDEN, ROYAL C., Jr. NB-05083-2
HAYDON, GLEN B. HE-06861-3
HAYES, DONALD P. MH-11829-1
HAYES, KEITH J. HD-00919-4
HAYES, MARK A. AM-02722-5
HAYES, MARK A. CA-03360-9
HAYES, WILLIAM N. NB-05001-2
HAYGOOD, ROBERT C. MH-11283-1
HAYMAN, BRIAN I TW-00163-1
HAYMAN, JOSEPH M., Jr. FR-05382-4
HAYMOND, HERMAN R. RH-00005-4
HAYNE, DON W FS-00063-1
HAYNE, DON W. WP-00502-2
HAYNES, DOUGLAS M. CA-07381-2
HAYNES, ROBERT C., Jr. AM-01256-9
HAYNES, ROBERT C., Jr. AM-08430-2
HAYNES, ROBERT H. GM-12667-1
HAYS, DANIEL M. AM-08879-1
HAYS, KIRBY L. AI-04904-2
HAYS, RICHARD M. AM-03858-6
HAYWARD, JAMES N. NB-05638-1
HAYWOOD, ANNE M. AI-06549-1
HAYWOOD, L. JULIAN HE-09725-1
HAZARD, GEOFFREY C., Jr. OM-00302-4
HAZELWOOD, DONALD H. GM-09962-3
HAZEN, THAMON F FF-00410-3
Hazleton Labs. Contr. MH-63-555
Hazleton Labs. Contr. CA-63-622
Hazleton Labs. Contr. CA-63-1168
Hazleton Labs. Contr. CA-65-79
Hazleton Labs. Contr. CA-65-635
Hazleton Labs. Contr. NB-64-72
HEAD, MURDOCK AP-00415-1
HEAL, LAIRD W. MH-11371-1
HEALD, FELIX P. AM-05554-3
HEALD, FELIX P. HF-08587-1
HEALEY, ALBERT F. MH-11718-1
HEALEY, JOHN E., Jr. CA-05036-4
HEALEY, JOHN E., Jr. GM-12345-1
Health Ins. Plan of N. Y. Contr. CA-63-49
Health Research Contr. CA-58-2390
Health Research Contr. CA-63-43
Health Research Contr. CA-63-565
Health Research Contr. CA-63-593
Health Research Contr. CA-65-44
Health Research Contr. CA-65-616
Health Research Contr. CA-65-636
Health Research Contr. CA-65-1023
Health Research Contr. CA-65-1065
HEANEY, ROBERT P. AM-07660-1
HEANEY, ROBERT P. AM-07912-2
HEARN, WALTER R. AI-05016-3
HEARST, JOHN E GM-11180-3
HEATH, DOUGLAS H. MH-10987-1
HEATH, DOUGLAS H. MH-11227-1
HEATH, EDWARD C. AM-08318-2
HEATH, MILTON S., Jr. WP-00352-3
HEATH, ROBERT G. NB-04251-3
HEBB, D.O. MH-02455-7
HEBERLING, RICHARD L. AI-09535-7
HECHT, ADOLPH GM-10951-2
HEDGECOCK, LOYD W. AI-04944-4
HEDGES, RICHARD M. CA-08261-1
HEDGES, THOMAS R. NB-05488-1
HEDLEY-WHYTE, JOHN HF-08558-2
HEDRICK, LESLIE R. AI-04642-3
HEDRICK, LESLIE R. GM-11643-6
HEFFERREN, SANDRA M. DF-02225-1
HEGGENESS, FRANKLIN W. HD-00009-2
HEGSTED, DAVID M. AM-06245-4
HEIDER, FRITZ MH-05224-4
HEIM, LOUISE M NB-05272-1
HEIMBERG, MURRAY AM-01677-8
HEIMBERG, MURRAY OH-00117-3
HEIMER, RALPH AM-07506-3
HEIMSTRA, NORMAN W AC-00188-2
HEIN, GEORGE E. GM-10511-3
HEIN, JOHN W. FR-05483-
HEINER, DOUGLAS C. AM-07259-3
HEINERT, DIETRICH GM-11621-2
HEISEY, LOWELL V. GM-09973-3
HEISEY, S. RICHARD NB-05412-1
Hektoen Inst. Contr. AI-63-76
HELANDER, HERBERT F. AM-09312-1
HELD, RICHARD MH-07642-3
HELINSKI, DONALD R. AI-05210-3
HELLEGERS, ANDRE E. HE-08313-2
HELLEMS, HARPER K. HF-05483-6
HELLEMS, HARPER K. HF-06376-4
HELLER, ALFRED MH-04954-4
HELLER, CARL G. HD-00487-6
HELLER, CARL G. HD-00804-2
HELLER, HARRY AM-09272-1
HELLER, KENNETH MH-10225-1
HELLER, WILFRIED CA-05561-3
HELLER, WILFRIED GM-09978-3
HELLER, WILLIAM M. HM-00323-2
HELLERMAN, LESLIE CA-00392-19
HELLERMAN, LESLIE CA-03186-9
HELLERSTEIN, EARL E. AM-05501-4
HELLERSTEIN, STANLEY HD-01004-1
HELLMAN, BO AM-05759-4
HELLMAN, KENNETH P GM-11146-3
HELLMAN, LOUIS M. HE-03678-7
HELMCKE, JOHANN-GERHARD DE-01477-4
HELMER, OSCAR M. HE-09730-1
HELMREICH, ERNST AM-09242-1
HELMS, CARL W. AM-06798-3
HELPER, MALCOLM M. MH-10793-1
HELRICH, MARTIN HF-06429-4
HELWIG, HAROLD L. AP-00230-2
HEMPELMANN, LOUIS H FR-00220-3
HEMPELMANN, LOUIS H. RH-00210-3
HEMPHILL, LOUIS RH-00369-2
HEMPLING, HAROLD G. CA-03690-8
HENDERSON, C M. OM-01700-1
HENDERSON, J.A. FR-05465-3
HENDERSON, L.M. AM-07984-3
HENDERSON, L.M. GM-11710-2
HENDERSON, MAUREEN HD-00307-4
HENDERSON, THOMAS R. AI-05152-2
HENDERSON, THOMAS R. AM-00721-18
HENDERSON, VIRGINIA A. NU-00023-6
HENDLEY, CHARLES D. MH-07108-2
HENDRICKS, CHARLES H. HD-00264-10
HENDRICKSON, FRANK R. CA-05497-5
HENDRICKSON, FRANK R. CA-06525-3
HENDRICKSON, JAMES B. GM-10714-3
HENDRICKSON, JAMES B. GM-10715-3
HENDRIX, THOMAS R. AM-05218-4
HENEGER, GEORGE C. AM-02354-7
HENEGAR, GEORGE C. AM-05486-4
HENERY-LOGAN, KENNETH R. AI-05286-3
HENERY-LOGAN, KENNETH R. CA-07193-2
HENKEL, RAMON OM-01906-1
HENKER, BARBARA A. MH-10675-1
HENKIND, PAUL NB-05059-2
HENLE, WERNER AI-02405-7
HENLE, WERNER CA-04568-7
HENLEY, KEITH S. AM-07361-3
HENNACY, RICHARD HF-08884-1
HENNEMAN, ELWOOD MH-10253-1
HENNEMAN, PHILIP H. AM-02970-8
HENNEMAN, PHILIP H. AM-06404-3
HENNEMAN, RICHARD H. MH-08937-2
HENNES, ALLEN R. AM-05891-4
HENNES, ALLEN R. AM-07089-3
HENNY, FRED A. DE-02042-1
HENRIQUES, BASIL L. DF-02287-1
HENRIQUES, BASIL L. DE-02326-1
HENRIQUES, BASIL L. DF-02327-1
HENRY, CHARLES E. MH-07585-2
HENRY, WILLIAM E. MH-09192-2
HENSCHKE, ULRICH K. CA-09369-10
HEPBURN, FRANK N. AM-05883-4
HEPLER, LOREN G. GM-10177-3
HEPTINSTALL, ROBERT H. HF-07835-4
HERBERT, EDWARD CA-07373-3
HERBERT, STEPHEN J. HF-09754-1
HERBERT, VICTOR AM-08144-2
HERBERT, VICTOR AM-09062-2
HERBERTSON, JAMES E. DH-00015-4
HERBSMAN, HORACE AM-08457-1
HERBST, EDWARD J. AI-05397-4
HERBUT, PETER A. CA-08123-1
HERCULES, DAVID M. GM-11766-2
HERD, JAMES A. HE-09154-1
HERIN, REGINALD A. NB-04815-2
HERION, JOHN C. AI-04925-3
HERMAN, LOUIS M. MH-10831-1
HERMAN, ROBERT K. AM-09298-1
HERMANN, EDWARD R OH-00178-1
HERMANN, HOWARD T. NB-04932-2
HERMANS, JAN GM-12157-1
HERMS, WOLFGANG TW-00079-2
HERNANDEZ-PEON, RAUL MH-10003-2
HERNDON, C NASH HF-05277-6
HERNDON, CHARLES H AM-06075-3
Herner and Co. Contr. CA-65-991
HERRANEN, AILENE AM-08201-2
HERRING, PENDLETON MH-04160-4
HERRIOTT, ROGER M. AI-01218-9
HERRMAN, WALTER L. AM-06055-4
HERRMANN, ERNEST C. AI-05603-3
HERRMANN, ERNEST C., Jr. AI-04397-1
HERRMANN, HEINZ HD-00203-6
HERRMANN, HEINZ NB-05673-1
HERRMANN, ROBERT L. HD-01255-6
HERRMANN, WALTER L. AM-07377-3
HERRMANN, WILLIAM W OM-02092-1
HERS, HENRI-GERY AM-09235-1
HERSH, ROBERT T. GM-10866-6
HERSHENSON, MAURICE MH-10751-1
HERSHEY, ALFRED D. HD-01228-15
HERSHEY, DANIEL HE-08781-1
HERSHEY, FALLS B. GM-12874-1

HERSHEY, S.G. HF-09042-2
HERSHGOLD, EDWARD J. HF-08388-2
HERSKOWITZ, IRWIN H. GM-11537-2
HERTIG, ARTHUR T. HD-00137-11
HERTIG, MARSHALL AI-01251-9
HERTTING, GEORG HE-07025-4
HERTZ, LEIF TW-00113-2
HERTZMAN, ALRICK B. HF-04939-6
HERTZMAN, ALRICK B. HE-07070-3
HERVEY, GEORGE R. AM-07627-2
HERWEG, JOHN C. HD-00308-3
HERYFORD, FRED W. OM-01805-1
HERZ, WERNER GM-05814-7
HERZBERG, MENDEL AI-01663-8
HERZENBERG, LEONARD A. CA-04681-6
HERZENBERG, LEONARD A. GM-12075-2
HERZOG, LEONARD F., II GM-11884-2
HESS, ARTHUR NB-05752-1
HESS, BENNO CA-08255-1
HESS, ECKHARD H. MH-00776-12
HESS, EUGENE L. CA-04102-7
HESS, EUGENE L. HE-02325-11
HESS, EVELYN V. AM-09577-1
HESS, GEORGE P. GM-04842-9
HESS, GEORGE P. GM-09315-3
HESS, IRENE CH-00039-3
HESS, JOSEPH W. NB-04922-2
HESS, MELVIN HD-00229-3
HESS, PAUL W. GM-12127-2
HESS, ROBERT D. MH-08636-1
HESS, SIDNEY M. MH-07663-2
HESS, WALTER C. FR-05306-4
HESS, WALTER C. FR-05360-4
HETHERINGTON, EILEEN M. MH-06333-3
HETHERINGTON, EILEEN M. MH-11323-1
HETRICK, FRANK M. CA-07938-1
HETTIG, ROBERT A. CA-03392-8
HEUKELEKIAN, HOVHANESS WP-00133-9
HEUSER, CHESTER H. HD-00464-11
HEUSER, GUNNAR MH-10776-1
HEWES, C. GORDON DE-01633-2
HEWITT, WILLIAM B. FF-00213-4
HEWITT, WILLIAM L. HD-00303-6
HEWSON, E. WENDELL AP-00380-1
HEWSON, EDGAR W. AP-00233-3
HEXTER, ROBERT M. GM-11179-3
HEXTER, WILLIAM M. HD-01238-9
HEYL, W. MEREDITH CA-07894-2
HEYMAN, ALBERT HE-07369-4
HEYMAN, ALBERT NB-00669-12
HEYMANN, WALTER AM-00044-14
HEYSSEL, ROBERT M. HF-07759-3
HEYSSEL, ROBERT M. RH-00303-2
HIATT, HOWARD H. CA-03151-8
HIATT, NATHAN AM-03672-6
HIATT, ROBERT B. AM-08911-1
HIBBEN, CRAIG R. AP-00312-2
HIBBS, RICHARD G. HE-02490-9
HICKAM, JOHN B. HE-04080-7
HICKAM, JOHN B. HE-06308-5
HICKEY, MAURICE J. FR-05346-4
HICKMAN, CLEVELAND P., Jr. AM-06403-3
HICKS, DAVID J. MH-10189-1
HICKS, G. PHILLIP GM-10978-2
HICKS, MARTHA B. OM-01086-3
HICKS, SAMUEL P. NB-03861-3
HIFT, HELEN HE-09448-1
HIGGINBOTHAM, A.C. HF-03207-9
HIGGINBOTHAM, ROBERT D. AI-03635-5
HIGGINS, DON C. NB-04763-2
HIGGINS, EDWIN S. AI-01889-8
HIGGINSON, JOHN AM-06884-2
HIGGINSON, JOHN CA-04322-7
HIGGINSON, JOHN CA-08055-1
HIGHTOWER, NICHOLAS C., Jr. AM-07538-2
HIGHTOWER, NICHOLAS C., Jr. AM-07932-3
HIGMAN, HENRY B. NB-05483-1
HIGUCHI, TAKERU AM-03437-6
HIGUCHI, TAKERU GM-05830-7
HIGUCHI, WILLIAM I. DE-01830-3
HIGUCHI, WILLIAM I. HE-07690-4
HILAL, SADEK K. HE-08785-3
HILD, WALTHER J. NB-03114-5
HILDEMANN, W.H. HD-01252-8
HILDING, ANDERSON C. GM-09603-3
HILDING, DAVID A. NB-03447-4
HILDING, DAVID A. NB-03995-3
HILDRETH, EUGENE A. AI-06471-1
HILGARD, ERNEST R. MH-03859-4
HILGARD, JOSEPHINE R. OM-01582-1
HILKER, DORIS M. AM-08531-2
HILKER, DORIS M. HE-08045-2
HILL, CHARLES H. AM-05651-3
HILL, CHARLES H. HD-00864-2
HILL, CHARLES W. MH-10581-1
HILL, EDWARD C. CA-07489-2
HILL, ELDON G. AM-07123-3
HILL, ELDON G. HE-07508-3
HILL, FRANCIS S. FR-05485-3
HILL, FREDRIC W. AM-07659-2
HILL, IDEN N. DH-00046-1
HILL, JOHN B. AM-09033-1
HILL, JOSEPH M. FR-00197-1
HILL, L. LEIGHTON HD-00081-2
HILL, LAWRENCE A. HM-00355-1
HILL, LAWRENCE A. OM-02088-1
HILL, MARVIN F. HD-00180-3
HILL, RICHARD K. GM-06568-6
HILL, RICHARD M. NB-05416-1
HILL, RICHARD M. NB-05653-1
HILL, ROBERT J. HE-06914-4
HILL, ROBERT J. HF-08867-2
HILL, ROBERT L. HE-06400-4
HILL, ROBERT M. EF-00669-1
HILL, ROBERT M. NB-02836-5
HILL, ROBERT M. NB-05901-1
HILL, ROBERT McC. AM-07407-2
HILL, ROLLA B., Jr. AM-07838-2
HILL, S. RICHARDSON, Jr. FR-00032-5
HILL, S. RICHARDSON, Jr. FR-05349-4
HILL, TERRELL L. HE-03149-8
HILL, WINFRED F. MH-10663-1
HILLARP, NILS-AKE NB-05236-1
HILLEMANN, HOWARD H. GM-10611-3
HILLIARD, JESSAMINE HD-01177-4
HILLMAN, J. WILLIAM AM-02012-7
HILLMAN, NINA W. HD-00827-2
HILLMAN, RALPH GM-10480-3
HILLS, A. GORMAN AM-08114-1
HILSENHOFF, WILLIAM L. WP-00209-4
HILTON, FREDERICK K. AM-08778-1
HILTON, JAMES G. AM-02828-7
HIMELHOCH, JEROME MH-07287-2
HIMES, RICHARD H. AM-07140-3
HIMMELBLAU, DAVID M. WP-00652-2
HIMWICH, HAROLD E. MH-10999-1
HIND, JOSEPH E. FR-00249-1
HINDIN, ERVIN WP-00624-2
HINDIN, ERVIN WP-00676-2
HINE, JACK AM-06829-2
Hine Labs. Contr. MH-64-931
HINE, MAYNARD K. FR-05312-4
HINEGARDNER, RALPH T. GM-11461-2
HINES, MARION NB-00850-10
HINKLE, LAWRENCE E., Jr. HF-07796-3
HINKO, EDWARD N. OM-01713-2
HINMAN, EDWARD J. AM-07455-2
HINMAN, EDWARD J. HE-09703-1
HINMAN, EDWARD J. HE-09755-1
HINSCH, GERTRUDE W. AM-05429-4
HINSHAW, DAVID B. AM-02329-7
HINSHAW, DAVID B. AM-06020-4
HINSHAW, DAVID B. FR-05352-4
HINSHAW, LERNER B. HE-09381-1
HINTON, CLAUDE W. HD-01235-10
HIRAI, TOKUZO EF-00447-3
HIRATA, YOSHIMASA GM-07969-5
HIROTA, YUKINORI GM-08291-4
HIROTA, KAZUTOSHI TW-00155-1
HIRSCH, HERBERT M. CA-06548-3
HIRSCH, IRA J. NB-03856-3
HIRSCH, JAMES G. AI-01831-8
HIRSCH, JULES AM-09160-1
HIRSCH, ROBERT L. AM-07847-2
HIRSCHBERG, NELL CC-00128-1
HIRSCHBOECK, JOHN S. FR-05434-4
HIRSCHFELDER, JOSEPH O. GM-11315-1
HIRSCHHORN, KURT HD-00542-4
HIRSCHMAN, ALBERT AM-05922-4
HIRSCHMANN, HANS AM-09105-14
HIRSCHOWITZ, BASIL I. AM-04978-5
HIRSCHOWITZ, BASIL I. AM-09260-1
HIRSCHOWITZ, BASIL I. CA-04980-5
HIRST, GEORGE K. AI-04360-4
HIRST, GEORGE K. FR-05533-3
HISATSUNE, I.C. AP-00018-5
HISAW, FREDERICK L., Jr. AM-07517-2
HISAW, FREDERICK L. HD-00422-17
HISKEY, RICHARD G. AM-03416-6
HISKEY, RICHARD G. GM-07966-5
HITCHCOCK, CLAUDE R. HE-07897-3
HITCHMAN, IRENE L. OM-01063-3
HITE, GILBERT J. NB-03593-5
HITZEMAN, SISTER JEAN W. GM-10484-3
HIX, ELLIOTT L. AM-01761-8
HLADKY, FRANK OM-01922-1
HNILICA, LUBOMIR S. CA-07746-2
HO, MONTO AI-02953-6
HOAG, WARREN G. CA-04691-6
HOAGLAND, MAHLON B. GM-07928-5
HOARD, JAMES L. GM-09370-4
HOARE, DEREK S. AI-06447-1
HOBBS, NICHOLAS OM-00929-5
HOBBY, GLADYS L. AI-05662-3
HOBERMAN, HENRY D. CA-03641-9
HOCH, FREDERIC L. AM-07393-3
HOCHMAN, BENJAMIN GM-11627-2
HOCHSTRASSER, ROBIN M. GM-12592-1
HOCHWALD, GERALD M. NB-05024-2
HOCKMAN, CHARLES H. NB-05328-2
HODAPP, EUGENE L. DE-01651-3
HODES, HORACE L. AI-05009-3
HODES, M.E. CA-08120-1
HODES, MARION E. CA-03475-8
HODES, ROBERT HD-01815-1
HODES, ROBERT NB-02796-5
HODGE, HAROLD C. AC-00211-6
HODGES, CLARENCE V. CA-04751-3
HODGES, CLARENCE V. CA-07762-2
HODGMAN, JOAN E. HD-00650-2
HODGSON, EDWARD S. AI-02271-7
HODKINSON, JOHN R. AP-00425-1
HODOSH, MILTON DE-01215-5
HOEBEL, BARTLEY G. MH-08493-2
HOECKER, FRANK E. DE-01782-2
HOEFER, PAUL F.A. NB-04083-3
HOEKSTRA, WILLIAM G. AM-05606-4
HOEPPLI, REINHARD J. C. AI-05556-2
HOFF, EBBE C. NB-01024-9
HOFF, EBBE C. NB-03047-5
HOFF, EBBE C. NB-05100-2
HOFF, HEBBEL E. HE-08825-2
HOFFBAUER, FREDERICK W. AM-04367-5
HOFFERT, WARREN R. CC-00027-3
HOFFMAN, BRIAN F. HF-08508-2
HOFFMAN, DONALD A. EF-00746-1
HOFFMAN, HEINER DE-01462-4
HOFFMAN, HENRY H. NB-01804-6
HOFFMAN, HOWARD S. MH-02433-7
HOFFMAN, JOSEPH G. CA-03928-7
HOFFMAN, JOSEPH G. GM-06300-6
HOFFMAN, JOSEPH G. GM-11689-1
Hoffman-Laroche Contr. CA-65-1054
HOFFMAN, MORTON Z. GM-12282-1
HOFFMAN, NORMAN E. GM-12399-1
HOFFMAN, PAUL J. MH-04439-6
HOFFMAN, PAUL J. MH-10822-1
HOFFMAN, PHILIP AM-08482-2
HOFFMAN, RICHARD L. DE-01971-2
HOFFMAN, SAMUEL J. FR-05524-3
HOFFMANN, LOUIS G. AI-06436-1
HOFFMANN, PHILIP C. HE-08895-2
HOFMANN, FREDERICK, G. CA-02121-12
HOFMANN, KLAUS AM-01128-9
HOFMANN, KLAUS AM-05699-3
HOFSTEE, BAREND H.J. CA-02289-11
HOFSTETTER, HENRY W. NB-04863-1
HOGAN, MICHAEL J. NB-00786-11
HOGAN, MICHAEL J. NB-01099-9
HOGAN, MICHAEL J. NB-01229-9
HOGAN, MICHAEL J. NB-01782-7
HOGBEN, C. ADRIAN M. AM-05848-4
HOGEN, MICHAEL J. NB-00044-14
HOGENKAMP, HARRY P. AM-08627-2
HOGNESS, DAVID S. AM-07535-3
HOGNESS, JOHN R. FR-00037-5
HOGNESS, JOHN R. FR-05432-4
HOHL, HANS RUDOLF GM-11758-2
HOHMANN, ALBERT NB-03542-4
HOHMANN, ALBERT NB-04263-3
HOKIN, LOWELL E. NB-01730-7
HOLADAY, DUNCAN A. HE-08776-2
HOLADAY, DUNCAN A. NB-04212-3
HOLDEN, JOSEPH T. AI-01487-9
HOLDER, LEE CH-00121-1
HOLLAND, AUDREY I. NB-05479-1
HOLLAND, JAMES F. CA-02599-11
HOLLAND, JAMES F. CA-02821-10
HOLLAND, JAMES F. CA-05834-4
HOLLAND, JAMES P. HD-01076-1
HOLLAND, MONTE G. NB-02212-6
HOLLAND, MONTE G. NB-04888-2
HOLLAND, NANCY H. AM-08853-1
HOLLAND, R.F. AM-07172-2

HOLLAND, ROBERT C. NB-03028-5
HOLLAND, ROBERT H. CA-03694-8
HOLLAND, ROBERTO DE-02087-2
HOLLAND, WILLIAM C. HE-04077-4
HOLLAND, WILLIAM C. HE-08678-2
HOLLANDER, FRANKLIN AM-02290-7
HOLLANDER, FRANKLIN AM-05733-3
HOLLANDER, JOSEPH L. AM-05322-4
HOLLANDER, WILLIAM HE-01536-12
HOLLANDER, FRANKLIN CA-00288-17
HOLLANDER, VINCENT P. AM-07982-3
HOLLANDER, WALTER HE-05155-5
HOLLDORF, AUGUST W. TW-00046-2
HOLLENBERG, CHARLES H. AM-07212-4
HOLLENBERG, MILTON HE-08364-2
HOLLETT, CHARLOTTE R. AM-09336-1
HOLLETT, CHARLOTTE R. HE-09235-1
HOLLEY, HOWARD L. AM-03555-6
HOLLEY, ROBERT W. GM-13018-1
HOLLIDAY, AUDREY R. MH-06145-4
HOLLIDAY, MALCOLM A. AM-07935-3
HOLLIEN, HARRY NB-04398-4
HOLLIEN, HARRY NB-04407-4
HOLLIMAN, RHODES B. AI-05177-3
HOLLINGSHEAD, AUGUST B. MH-03569-4
HOLLINGSWORTH, J. WILLIAM AM-07348-3
HOLLINGSWORTH, J. WILLIAM FR-00038-5
HOLLINGSWORTH, CHARLES A. GM-10932-3
HOLLINSHEAD, MAY B. NB-03466-4
HOLLIS, FLORENCE OM-00513-5
HOLLISTER, CHARLES J. CC-00065-5
HOLLISTER, LEO E. MH-03030-7
HOLLISTER, LEO E. MH-05144-5
HOLLOSZY, JOHN O. HD-01613-1
HOLLOWELL, JOSEPH G., Jr. AM-08488-2
HOLLOWELL, JOSEPH G., Jr. HD-01429-1
HOLLSTEIN, ULRICH GM-12111-2
HOLM, GLENN C. FR-05567-1
HOLM, LOUIS W. GM-05784-7
HOLMAN, GERALD H. AM-09441-1
HOLMAN, GERALD H. HD-01483-1
HOLMAN, HALSTED R. AM-05425-4
HOLMAN, RALPH T. AM-04524-5
HOLMAN, RALPH T. HE-03559-8
HOLMBERG, ALLAN R. MH-10582-1
HOLMBERG, K. GUNNAR MH-04513-2
HOLMES, FREDERIC L. GM-11808-1
HOLMES, JOHN E. MH-10788-1
HOLMES, JOSEPH H. AM-08196-2
HOLMES, JOSEPH H. GM-13231-1
HOLMES, JOSEPH H. HE-02115-10
HOLMQUIST, NELSON D. CA-08153-1
HOLSWADE, GEORGE R. HE-06985-3
HOLT, JOSEPH P. HF-02075-11
HOLT, L. EMMETT, Jr. AM-04183-5
HOLT, L. EMMETT, Jr. HD-00198-7
HOLT, L. EMMETT, Jr. HD-00372-9
HOLT, ROBERT R. MH-06733-3
HOLTER, HEINZ GM-12180-1
HOLTMAN, D. FRANK EF-00617-1
HOLTZER, ALFRED M. GM-05488-8
HOLTZER, HOWARD HD-00189-12
HOLTZMAN, WAYNE H. MH-03223-6
HOLYOKE, EDWARD A. AM-07065-3
HOLYOKE, EDWARD D. CA-07791-2
HOLZ, GEORGE G., JR. AI-05802-2
HOLZBERG, JULES D. OM-01499-2
HOLZMAN, PHILIP S. MH-07962-2
HOLZWORTH, JEAN GM-11941-2
HOMBURGER, FREDDY AM-03229-6
HOMBURGER, FREDDY AM-05847-4
HOMBURGER, FREDDY AM-06190-4
HOMBURGER, FREDDY CA-04869-5
HOMBURGER, FREDDY CA-05230-5
HOMBURGER, FREDDY FR-05525-3
HOMBURGER, FREDDY HD-00769-2
HOMBURGER, FREDDY HD-01070-1
HOMMEL, LEONARD S. MH-10600-1
HON, EDWARD H. HD-01467-1
HON, EDWARD H. HE-09507-1
HONDA, SHIGERU I GM-10487-3
HONIG, CARL R. HF-03290-8
HONIGBERG, BRONISLAW M. AI-00742-11
HOOBLER, SIBLEY W. HF-02578-9
HOOBLER, SIBLEY W. HE-06654-3
HOOD, DONALD W. WP-00900-1
HOOD, MARION W. AI-01995-5
HOOGENBOOM, BERNARD E. GM-12153-2
HOOK, EDWARD W. AI-05940-2
HOOK, EDWARD W. HF-03479-7
HOOKER, ARTHUR L. AI-02709-6
HOOKER, EVELYN MH-06452-4

HOOPER, ALAN B. GM-11814-2
HOOPINGARNER, ROGER A. CA-06865-3
HOPKINS, B.L. MH-11260-1
HOPKINS, J.W. GM-07606-5
HOPKINS, THEODORE L. AI-04868-3
HOPKINS, THEODORE L. AI-04643-4
HOPPER, JAMES, Jr. AM-06579-3
HOPPER, SAMUEL H. FF-00008-4
HOPPER, SAMUEL H. HM-00270-1
HOPPING, JOE M. AM-09065-1
HOPSU, VAINO K. TW-00103-2
HOPWOOD, M.L. AM-07903-2
HOPWOOD, M.L. GM-07120-5
HORAN, LEO G. HE-08861-2
HORECKER, BERNARD L. GM-11301-2
HOREL, JAMES A. NB-05569-1
HORENSTEIN, SIMON NB-05360-2
HORGAN, JAMES D. HE-08456-2
HORIO, TAKEKAZU GM-09246-4
HORITA, AKIRA MH-02435-7
HORLICK, LOUIS AM-06668-3
HORLICK, REUBEN S. OM-01982-1
HORN, GABRIEL NB-04787-2
HORN, JOHN MH-11827-1
HORN, ROBERT G. HE-10048-1
HORNBEIN, THOMAS F. HF-08866-2
HORNER, WILLIAM H. AI-04065-4
HORNER, WILLIAM H. AM-03658-5
HORNSTRA, ROBIJN K. OM-01386-2
HORNUNG, MARIA AM-07689-2
HOROWICZ, PAUL GM-08803-4
HOROWITZ, HERBERT I. HF-08744-3
HOROWITZ, JACK GM-09042-4
HOROWITZ, MARDI J. MH-08687-1
HOROWITZ, MARTIN I. AM-05819-4
HORRES, ALAN D. HF-06923-4
HORRIGAN, DANIEL L. CA-02501-11
HORSFALL, FRANK L., Jr. CA-08359-1
HORSFALL, FRANK L., Jr. FR-05534-3
HORSFALL, WILLIAM R. GM-12612-1
HORST, PAUL MH-00743-10
HORSTMANN, DOROTHY M. AI-05577-3
HORTON, A. WESLEY CA-07030-2
HORTON, DEREK GM-11976-2
HORWITH, MELVIN AM-04855-5
HORWITT, MAX K. AM-07184-2
HORWITZ, HARRY CA-04762-3
HORWITZ, JEROME P. CA-04519-7
HORWITZ, LEONARD M. MH-11031-1
HORWITZ, OLE AI-04817-3
HOSEIN, ESAU A NB-01756-6
HOSHIKO, MICHAEL NB-03484-4
HOSHIKO, TOMUO AM-05865-3
HOSKIN, FRANCIS C. G. NB-04367-3
HOSKINS, DALE D AM-08958-1
HOSPELHORN, VERNE D. AM-09271-1
Hospital for Joint Diseases Contr. CA-64-46
Hospital for Sick Children Contr. CA-65-97
HOSTY, THOMAS S. AI-05324-3
HOSTY, THOMAS S. EF-00047-3
HOTCHIN, JOHN E. AI-03846-5
HOTCHKISS, JULANE AM-07254-2
HOTCHKISS, ROBERT S. HD-01301-1
HOTCHKISS, ROLLIN D. AI-03170-6
HOTCHKISS, ROLLIN D. GM-09427-4
HOTTA, KEN AM-05740-3
HOTTA, SHOICHI S. NB-04152-3
HOUCK, JOHN C. AM-03850-6
HOUCK, JOHN C. AM-04066-5
HOUCK, JOHN C. AM-08049-2
HOUCK, JOHN C. AM-08168-2
HOUGIE, CECIL HF-05994-6
HOUGIE, CECIL HF-05995-5
HOULIHAN, RODNEY T. AM-06323-2
HOUSE, HERBERT O. GM-08761-4
HOUSER, HAROLD B. AM-07474-2
HOUSKA, CHARLES R. DE-02061-1
HOUSSAY, BERNARDO A. AM-08307-6
HOUSTON, JOHN P. MH-10612-1
HOUSTON, JOHN P. MH-11199-1
HOVORKA, EDWARD J. HD-00959-2
HOWARD, ALAN OM-01899-1
HOWARD, EVELYN AM-02679-10
HOWARD, JOHN C. GM-11408-2
HOWARD, JOHN E. AM-04247-5
HOWARD, JOHN M. AM-02723-7
HOWARD, JOHN M. AI-04064-5
HOWARD, JOHN M. CA-05622-4
HOWARD, JOHN M. HE-04182-7
HOWARD, ROBERT B. FR-05385-4

HOWARD, ROBERT B. HE-06314-5
HOWARD-FLANDERS, PAUL GM-11014-6
HOWARTH, JOHN L. RH-00404-1
HOWE, ARTHUR F. NB-02856-5
HOWE, CALDERON AI-03168-6
HOWE, CHESTER W. AI-06044-2
HOWE, CLIFTON D. CA-06444-4
HOWE, EDMUND S. MH-07440-2
HOWE, GEORGE R. HD-00595-3
HOWE, H. BRANCH, Jr. GM-10672-3
HOWE, HOWARD A. AI-05699-2
HOWELL, DAVID B. AM-06619-3
HOWELL, DAVID S. AM-01155-9
HOWELL, DAVID S. AM-08662-1
HOWELL, RALPH R. AM-09251-1
HOWELL, THOMAS R. GM-10889-1
HOWELLS, W.W. MH-10314-1
HOWERTON, DOROTHY K. MH-09216-1
HOWES, DAVIS H. MH-08472-3
HOWES, EDWARD L. AM-04159-6
HOWES, JAMES R. FR-00140-2
HOWES, WILLIAM V. HD-01881-1
HOWIE, JOHN B. AM-07268-3
HOWLAND, DANIEL NU-00095-2
HOYT, F. GRAHAM NB-03819-4
HOYT, HARVEY H. AM-02096-8
HOYT, WILLIAM F. NB-03951-4
HRACHOVEC, JOSEF P. CA-06848-3
HRESHCHYSHYN, MYROSLAW M. CA-06723-3
HRESHCHYSHYN, MYROSLAW M. CA-07704-2
HRESHCHYSHYN, MYROSLAW M. CA-07705-2
HRESHCHYSHYN, MYROSLAW M. CA-07706-2
HRESHCHYSHYN, MYROSLAW M. CA-07707-2
HRUBAN, ZDENEK CA-05310-5
HRUBANT, H. EVERETT HD-00506-6
HSIA, S.L. AM-07924-3
HSIA, S.L. AM-09497-1
HSIEH, HSIEN-CHEN AI-05775-2
HSIUNG, GUEH-DJEN AI-05313-3
HSU, H.F. AI-00939-11
HSU, KONRAD C. AI-05474-3
HSU, W. SIANG GM-11858-2
HU, A.S.L. GM-08816-4
HU, FUNAN AM-10005-1
HU, FUNAN CA-08499-1
HUANG, K.C. AM-02217-7
HUBBARD, FREDERIC G. FR-05478-3
HUBBARD, RUTH NB-00568-11
HUBBARD, WILLIAM N., Jr. FR-00042-5
HUBBARD, WILLIAM N., Jr. FR-05383-4
HUBEL, DAVID H. NB-02260-6
HUBBELL, KENNETH A. AM-09022-1
HUBBELL, JOHN P., Jr. HD-01813-4
HUBBY, JOHN L. GM-11216-3
HUBENDICK, BENGT L. AI-04906-3
HUBER, WILLIAM GEORGE AM-08899-1
HUCKABEE, WILLIAM E. HF-04593-6
HUCKABEE, WILLIAM E. HF-06297-4
HUDSON, JACK W. GM-11368-2
HUDSON, JAMES B. GM-09355-3
HUDSON, ROY D. MH-05324-4
HUELKE, DONALD F. AC-00107-3
HUELKE, DONALD F. AC-00196-1
HUELKE, DONALD F. DE-00895-7
HUENEMANN, RUTH L. AM-09076-1
HUENEMANN, RUTH L. HD-00433-3
HUENNEKENS, FRANK M. AM-08126-2
HUENNEKENS, FRANK M. AM-08398-2
HUENNEKENS, FRANK M. CA-06522-4
HUESSY, HANS R. OM-01175-3
HUF, ERNST G. GM-03545-13
HUFF, JOHN W. CA-06920-3
HUFFAKER, CARL B. AI-01611-8
HUFFMAN, DONALD M. GM-11099-3
HUFFMAN, JOHN W. GM-07817-5
HUFFMAN, JOHN W. GM-08731-4
HUFFMAN, JOHN W. HE-05706-5
HUFFMAN, JOHN W. NB-04589-2
HUFNAGEL, CHARLES A. HE-00914-15
HUFNAGEL, CHARLES A. HM-00390-1
HUG, CARL C., Jr. MH-08580-2
HUG, GEORGE AM-08528-1
HUGENHOLTS, PAUL G. HE-02515-7
HUGGINS, CECILE AI-03001-4
HUGGINS, CHARLES E. HF-05673-5
HUGGINS, CLYDE G. CA-06152-5
HUGGINS, CLYDE G. NB-03973-4
HUGGINS, MAURICE L. GM-09590-4
HUGGINS, RUSSELL A. HF-08793-2
HUGGINS, SARA E. HE-06244-4
HUGHES, EDWARD C. AM-06807-2
HUGHES, EDWIN R. AM-05683-4

ALPHABETICAL LISTING OF INVESTIGATORS

HUGHES, EDWIN R. HD-00576-4
HUGHES, EDWIN R. NB-05534-1
HUGHES, JAMES G. NB-02406-7
HUGHES, JOHN R. NB-05377-3
HUGHES, LAWSON H. MH-10799-1
HUGHES, LOWELL R. OM-01821-1
HUGHES, RICHARD K. CA-07414-2
HUGHES, ROBERT B. OM-01487-2
HUGULEY, CHARLES M., Jr. CA-03227-9
HUGULEY, CHARLES M., Jr. CA-05733-4
HUISMAN, TITUS H.J. HE-05168-6
HUISMAN, TITUS H.J. HF-06982-4
HUITRIC, ALAIN C. HE-03843-6
HUITRIC ALAIN C. MH-11034-1
HUKILL, PETER B. CA-07828-1
HULET, WILLIAM H. HF-08366-2
HULICKA, IRENE M. HD-00357-2
HULKA, JAROSLAV F. AM-07432-2
HULKA, JAROSLAV F. HD-00564-3
HULL, MAURICE W. HF-08941-2
HULSE, FREDERICK S. HD-01830-1
HULTIN, HERBERT O. GM-12064-2
HULTIN, TORE CA-05278-5
HULTQUIST, DONALD E. AM-09250-1
HUME, DAVID M. AI-04325-4
HUME, DAVID M. HE-08203-3
HUME, MICHAEL HE-05140-5
HUME, MICHAEL HE-09095-1
HUMM, DOUGLAS G. CA-01717-12
HUMMEL, KATHERINE P. HD-00468-9
HUMMEL, JOHN P. GM-06071-7
HUMMELER, KLAUS AI-04911-3
HUMPHREY, ARTHUR E. AI-06165-2
HUMPHRIES, ARTHUR L., Jr. GM-08472-5
HUMPHRIES, J. O'NEAL HE-01485-11
HUMPHRIES, ASA A., JR. GM-09878-2
HUMPHREY, TRYPHENA HD-00230-3
HUMPHREYS, THOMAS E. AM-07299-3
HUNGATE, ROBERT E. AI-01266-9
HUNGERFORD, DAVID A. CA-05903-4
HUNGERFORD, GERALD F. AM-04925-3
HUNGERFORD, GERALD F. HF-04849-6
HUNT, CARLTON C. NB-05667-1
HUNT, DARWIN P MH-08433-1
HUNT, EARL B. MH-07567-3
HUNT, ELDRIDGE G. EF-00571-2
HUNT, HOWARD F. MH-07279-3
HUNT, J. McVICKER MH-08468-2
HUNT, J. McVICKER MH-08987-2
HUNT, J. McVICKER MH-10226-1
HUNT, J. McVICKER MH-11321-1
HUNT, JOHN A. AM-09183-1
HUNT, JOHN B. GM-12783-1
HUNT, THOMAS E. AM-04921-9
HUNT, WILLIAM B., Jr. AI-05833-2
HUNTER, ALAN G. HD-00816-2
HUNTER, CHARLES A., Jr. HD-00620-3
HUNTER, F. EDMUND, Jr. CA-02284-17
HUNTER, JAMES M. AM-08614-2
HUNTER, MARGARET J. GM-11842-2
HUNTER, W. D. RUSSELL GM-11693-2
HUNTER, W. STUART HD-00175-3
HUNTLEY, CAROLYN C. AI-05690-2
HUPP, EUGENE W. RH-00330-1
HURLBERT, ROBERT B. CA-04464-7
HURLBERT, RONALD E. AI-06733-1
HURST, PAUL M. MH-11294-1
HURST, VALERIE CC-00092-4
HURTADO, ALBERTO GM-08576-5
HURVICH, LEO M. NB-04342-4
HURWITT, ELLIOTT S. HF-06279-4
HURWITT, ELLIOTT S. HF-06645-4
HURWITZ, JACOB I. MH-07712-2
HURWITZ, LEON AM-02235-7
HUSAIN, SYD S. AM-07028-3
HUSEBY, ROBERT A. CA-05191-6
HUSEBY, ROBERT A. CA-05863-4
HUSSEY, CLARA V. HE-09433-1
HUTCHENS, JOHN O. AM-07963-2
HUTCHEON, DUNCAN E. HE-05240-6
HUTCHINGS, JOHN J. HE-10043-1
HUTCHINSON, CRANFORD AM-05833-3
HUTCHINSON, DONALD L. FR-05570-1
HUTCHINSON, ERIC GM-06818-5
HUTCHINSON, FRANKLIN GM-11572-2
HUTCHISON, GEORGE B. CA-05804-4
HUTCHISON, GEORGE B. CA-05805-4
HUTCHISON, ROBERT B. GM-12843-1
HUTCHISON, VICTOR H. GM-10156-2
HUTCHINSON, WILLIAM B. FR-05520-3
HUTCHISON, WILLIAM F. AI-01237-9
HUTH, EDWARD J. AM-05913-4
HUTNER, SEYMOUR, HERBERT GM-09103-4
HUTTENLOCHER, PETER R. NB-05036-2
HUYSER, EARL S AM-08517-1
HYATT, G W AM-06951-2
HYATT, KENNETH H. HE-08007-2
HYATT, ROBERT E. OH-00146-3
HYRI, ALBERT GM-12176-1
HYDE, IVAN HE-09032-1
HYDE, JOHN B NB-04324-3
HYDE, PAUL M. HF-07343-3
Hyland Lab. Contr. AI-65-632
HYMAN, ALBERT HE-07516-3
HYMAN, CAROL B. NB-02882-5
HYMAN, CHESTER HE-00352-15
HYMAN, EDWARD S. GM-10624-3
HYMAN, GEORGE A. CA-04346-7
HYPPS, IRENE C. OM-00888-4
I I T Research Inst. Contr. CA-61-4349
IACONO, JAMES M. HF-04728-6
IBER, FRANK L AM-04157-5
IBER, FRANK L. AM-07429-2
IBERS, JAMES A. GM-12985-1
IBSEN, KENNETH H CA-07883-1
IDRISS, F S HD-01114-1
IDRISS, FAROUK S. HF-08934-2
IDYLL, C P WP-00400-2
IFFT, JAMES B. GM-12544-1
IINO, TETSUO AI-02872-6
IKAWA, MIYOSHI GM-12582-2
IKEDA, TSUGUO OM-00882-3
IKIC, DRAGO AI-04486-4
Illinois University Contr. CA-62-467
IMAEDA, TAMOTSU AI-04815-4
IMAHORI, KAZUTOMO GM-12277-1
IMAICHI, KUNITARO HE-08755-2
IMIG, CHARLES J HF-08420-2
IMSANDE, JOHN D AM-07310-3
INCARDONA, NINO L. AI-05818-2
INCHIOSA, MARIO A., Jr. HF-08049-3
INDERBITZIN, THEODOR M AI-04839-3
INFANGER, SISTER ANN MARTIN GM-11478-2
INGALLS, THEODORE H. HD-00165-4
INGBAR, MARY L. HM-00190-3
INGBAR, SIDNEY H. AM-00247-12
INGBAR, SIDNEY H CA-07156-2
INGELFINGER, FRANZ J. AM-03560-6
INGELFINGER, FRANZ J. AM-05589-4
INGERSOLL, EVERETT H. NB-00704-12
INGHAM, CHARLES G. OM-01684-1
INGLE, DWIGHT J. AM-06046-12
INGMIRE, ALICE E. NU-00078-2
INGOLS, ROBERT S. WP-00188-5
INGRAHAM, JOHN I AI-05526-3
INGRAHAM, JOSEPH S. AI-06057-2
INGRAHAM, LLOYD L. GM-08285-4
INGRAHAM, RAYMOND C. GM-06337-5
INGRAM, MARYLOU GM-10788-1
INGRAM, VERNON M. AM-08390-1
INGRAM, WALTER R. MH-00675-12
INHORN, STANLEY L. GM-11230-3
INOUE, SHINYA CA-04552-7
Inst. Behavioral Science Contr. MH-65-648
Inst. for Juvenile Research Contr. HD-65-1010
INSULL, WILLIAM, Jr. HF-05284-6
International Assn. Dental Res. Contr. DE-65-607
IOB, VIVIAN AM-04727-5
IRELAND, PERCY E. NB-04141-3
IRELAND, RALPH L. FR-05327-4
IRELAND, ROBERT E. GM-09067-4
IRIGARAY, PEDRO J. MH-10812-1
IRIGARAY, PEDRO J. MH-10890-1
IRISAWA, HIROSHI HE-06968-4
IRONS, JESSE V. CC-00004-6
IRVIN, J. LOGAN GM-08318-5
IRVINE, A. RAY, Jr. NB-04501-3
IRVINE, DENNIS H. GM-09592-4
IRVING, CHARLES C. CA-05490-5
IRVING, JAMES T. DE-00876-7
IRVING, JAMES T. DE-01592-4
IRVING, JAMES T. HD-00393-5
IRVING, LAURENCE GM-10402-3
IRWIN, FRANCIS W. MH-06580-3
IRWIN, JOHN W NB-05352-2
IRWIN, M.R. AI-01643-12
IRWIN, ORVIS C NB-01899-6
IRWIN, ORVIS C. NB-02813-4
IRWIN, SAMUEL MH-10990-1
IRWIN, SAMUEL MH-11790-1
ISAAC, WALTER MH-04539-5
ISAACS, BERTHA I CA-06746-3
ISAACS, HAROLD R. MH-09179-3
ISAACS, JULIEN H HF-07335-2
ISAACSON, JOHN OM-01236-2
ISACSON, EDWIN P. AI-04457-4
ISBELL, A F GM-09014-4
ISENBERG, HENRY D. CA-03110-9
ISERI, OSCAR A. AM-08141-2
ISHIKAWA, TATSUO GM-10505-3
ISHIYAMA, FUICHI NB-05551-1
ISHIYAMA, TOARU MH-10418-1
ISHIZAKA, KIMISHIGE AI-04985-3
ISLER, HENRI G. CA-05489-5
ISMAIL, A H GM-10434-3
ISRAEL, ROBERT H. OM-02042-1
ISRAEL, S. LEON NB-02367-9
ISSEKUTZ, BELA, Jr. HF-07687-3
ISSELBACHER, KURT J. AM-01392-9
ISSELBACHER, KURT J. AM-03014-7
ISSENBERG, PHILLIP EF-00722-1
ITIL, TURAN MH-11381-1
ITO, SUSUMU AM-07578-5
ITO, SUSUMU GM-10182-10
ITTELSON, WILLIAM H OM-00220-7
IVERSON, RAY M GM-11156-3
IVES, DAVID H. CA-06913-3
IVEY, MICHAEL H. AI-06783-1
IVLER, DANIEL AI-05213-4
IVLER, DANIEL AI-06346-1
IYENGAR, M. RAJA AM-08345-2
IWAMURA, TATSUICHI GM-07601-5
IZZO, JOSEPH L. AM-03556-6
IZZO, JOSEPH L. AM-06495-4
JACKSON, BENJAMIN T. HD-01272-1
JACKSON, BENJAMIN T. HD-01385-1
JACKSON, BENJAMIN T. HE-09409-1
JACKSON, CHARLES E. AM-02901-6
JACKSON, DANIEL F WP-00782-1
JACKSON, DAVID S. AM-06318-4
JACKSON, DON D. MH-11362-1
JACKSON, DONALD E. MH-11157-1
JACKSON, GEORGE G. AI-01949-8
JACKSON, GEORGE G. AI-04059-4
JACKSON, GEORGE J. AI-04842-3
JACKSON, H. MERRILL MH-09201-2
JACKSON, JAY M. OM-01945-1
JACKSON, JOHN F CA-07900-2
JACKSON, KENNETH L. CA-08144-1
Jackson Laboratory Contr. CA-65-34
Jackson Laboratory Contr. CA-65-52
JACKSON, LAIRD G. CA-06588-3
JACKSON, RICHARD T. AI-06094-2
JACKSON, ROBERT L. AM-03476-5
JACKSON, W P U. AM-09052-1
JACO, E. GARTLY HM-00296-1
JACO, E. GARTLY HM-00384-1
JACOB, HARRY S. HE-10053-1
JACOB, STANLEY W. AM-09136-6
JACOB, STANLEY W. CA-07221-2
JACOBI, HERBERT P HF-08451-2
JACOBS, EARL E. HF-07103-4
JACOBS, FRANCIS A. AM-02023-7
JACOBS, HARRY L. MH-05754-4
JACOBS, HENRY R. HF-05446-6
JACOBS, JOHN F GM-08522-4
JACOBS, JOHN E. FR-00018-3
JACOBS, MARTIN A. MH-08118-2
JACOBS, MERLE E. GM-12435-1
JACOBS, MYRON S. NB-03849-4
JACOBS, NICHOLAS J. AI-06344-2
JACOBSEN, CARLYLE F. FR-00229-1
JACOBSEN, CARLYLE F. FR-05402-4
JACOBSOHN, GERT M. AM-06746-3
JACOBSON, ANTONE G. HD-00725-4
JACOBSON, BERTIL AM-03910-4
JACOBSON, GEORGE HF-07962-3
JACOBSON, HERBERT I. CA-08152-1
JACOBSON, HOMER GM-09023-3
JACOBSON, JERRY H. NB-04987-2
JACOBSON, JERRY H. NB-05704-1
JACOBSON, JULIUS H., II HF-07706-3
JACOBSON, JULIUS H., II HF-07707-4
JACOBSON, MARSHALL H. HE-02120-9
JACOX, RALPH F. AM-08145-2
JACQUEZ, JOHN A. CA-06734-3
JAENIKE, JOHN R HF-07966-2
JAFFE, ERNST R. HE-10041-1

JAFFE, JOSEPH MH-04571-5
JAFFE, JULIAN J. AI-04476-3
JAFFE, JULIAN J. CA-08114-1
JAGENDORF, ANDRE T. GM-03923-17
JAHN, THEODORE L. GM-06462-6
JAHN, THEODORE L. GM-08611-4
JAMES, BERNARD J. OM-01233-3
JAMES, DAVID H., Jr. CA-06660-3
JAMES, DOUGLAS AI-05832-2
JAMES, G. WATSON CA-06219-4
JAMES, THOMAS N. HE-07108-4
JAMES, SARA I OM-00458-4
JAMESON, DAVID I GM-08489-5
JAMIESON, G.A. GM-11700-2
JAMIESON, G.A. HE-09418-1
JAMPEL, ROBERT S. NB-04547-3
JAMPOLSKY, ARTHUR NB-02633-6
JAMPOLSKY, ARTHUR NB-05303-2
JANDL, JAMES H. HE-07652-3
JANES, RALPH G. NB-00237-14
JANEWAY, CHARLES A. AI-05877-2
JANEWAY, CHARLES A. NB-02400-7
JANEWAY, CHARLES A. HE-06302-5
JANIGAN, DAVID T. AM-06626-3
JANIS, IRVING L. MH-08564-2
JANNACH, JOSEPH R. AI-05150-3
JANNACH, JOSEPH R. AI-06099-2
JANNKE, PAUL J. GM-07967-5
JANOFF, AARON HE-08192-2
JANZEN, JOHN E HM-00387-1
JAQUES, LOUIS B HE-04877-6
JAQUES, LOUIS B. HE-06117-4
JAQUES, WILLIAM E. HE-03235-9
JARBOE, CHARLES H. AM-07147-3
JARBOE, CHARLES H. GM-10363-3
JARBOE, CHARLES H. MH-08348-2
JARCHO, SAUL GM-06392-7
JARETZKI, ALFRED, III HE-05580-4
JARNUM, STIG TW-00157-1
JARVIK, MURRAY F MH-01225-10
JARVIK, MURRAY E. MH-05319-4
JARVIK, MURRAY E. MH-08747-2
JASLOW, ROBERT I. OM-01052-2
JASLOW, ROBERT I. OM-01751-1
JASO, HECTOR OM-00768-2
JASPER, HERBERT H. MH-06261-3
JASPER, JOSEPH J GM-12348-1
JAVID, JAMSHID AM-07527-2
JAVID, MANUCHER J. NB-02185-6
JAVITT, NORMAN B AM-08043-2
JAWETZ, ERNEST NB-00604-11
JAY, JAMES M EF-00421-3
JAYKO, LAWRENCE G. AI-05503-3
JEANLOZ, ROGER W. AI-06692-1
JEANSONNE, EDMUND E. FR-05316-4
JEDEIKIN, LILLIAN A. HE-08548-2
JEFFAY, HENRY AM-01543-8
JEFFERIES, PHILLIP R CA-07810-1
Jefferson Med. Col. Contr. CA-64-495
JEFFERSON, WILLIAM E., Jr. GM-12645-3
JEFFREY, GEORGE A. GM-05412-7
JEFFREY, GEORGE A. GM-11293-2
JEFFREY, WENDELL E. MH-07822-2
JEFFRIES, CHARLES D AI-06767-1
JEFFRIES, GRAHAM H CA-09386-11
JEGHERS, HAROLD FR-00041-5
JEHLE, HERBERT CA-04989-6
JEHLE, HERBERT GM-12054-1
JELLIFFE, ROGER W HE-09428-1
JELLINEK, H.H.G. WP-00791-1
JENA, MILTON CA-06345-5
JENCKS, WILLIAM P. HD-01247-8
JENDEN, DONALD J. NB-03007-5
JENDEN, DONALD J. NB-04967-3
JENKINS, DALTON FR-00051-4
JENKINS, DANIEL E CC-00075-5
JENKINS, DANIEL E. OH-00070-4
JENKINS, DAVID WP-00787-1
JENKINS, GLENN L. MH-07177-2
JENKINS, HERBERT M. MH-08442-2
JENKINS, JAMES A GM-11614-2
JENKINS, W. TERRY HE-04417-7
JENKINS, WILLIAM R. HD-00849-8
JENNESS, ARTHUR MH-10551-1
JENNINGS, ELMER R. HD-01504-1
JENNINGS, F. LAMONT CA-04207-7
JENNINGS, JOSEPH B. AI-06295-1
JENNINGS, ROBERT B. HE-08729-2
JENNINGS, WALTER G. FF-00092-6
JENNINGS, WALTER G. FF-00176-6
JENNY, JACQUES HD-00409-4

JENSEN, DILWORTH D. AI-03490-5
JENSEN, ELWOOD V. CA-02897-9
JENSEN, GLEN D. HD-00945-4
JENSEN, GORDON D HD-00883-3
JENSEN, KLAUS TW-00040-3
JENSEN, LYLE H AM-03288-6
JENSEN, LYLE H GM-10828-11
JENSEN, NEAL F. GM-11898-2
JENSEN, ROBERT G. AM-02605-7
JENSEN, RUE FR-05458-3
JENSEN, RUE HD-00854-5
JENSEN, THORKIL GM-13163-1
JENSEN, WALLACE N. HE-06270-4
JENSEN, WILLIAM A CA-03656-9
JENSIK, ROBERT J. CA-07197-2
JENSIK, ROBERT J. CA-07232-2
JERGE, CHARLES R. DE-02095-2
JERGER, JAMES F. NB-05044-2
JERIS, JOHN S. WP-00577-2
JERNE, NIELS K AI-04307-1
JESBERG, DAVID O. NB-03292-5
JEWETT, DON L. NB-05701-1
JEZESKI, JAMES J., Jr. EF-00134-5
JIM, ROBERT T.S. HE-03480-7
JIMENEZ-PORRAS, JESUS GM-11375-2
JIRGENSONS, BRUNO CA-01785-13
JOCHIM, KENNETH E. HF-08686-2
JOEL, CLIFFE D NB-05481-1
JOEL, WALTER AM-04792-7
JOFFES, DAVID L. RH-00243-3
JOHANNESSEN, LEIF B. DF-01723-3
JOHANSEN, CARL A. EF-00676-1
JOHANSEN, ERLING DF-00689-8
JOHN, ERWIN R. MH-08579-2
JOHN, THEODORE L. GM-10062-3
Johns Hopkins Univ. Contr. AM-63-574
Johns Hopkins Univ. Contr. HD-65-637
Johns Hopkins Univ. Contr. MH-62-188
Johns Hopkins Univ. Contr. NB-65-23
JOHNS, T R NB-05593-1
JOHNSON, A. WILLIAM GM-10488-2
JOHNSON, ALAN J. HE-05003-6
JOHNSON, ARTHUR G. AI-01524-9
JOHNSON, ARTHUR G. HF-09143-1
JOHNSON, B. CONNOR AM-06005-4
JOHNSON, B. CONNOR AM-07609-2
JOHNSON, B. CONNOR AM-08300-9
JOHNSON, BEN B. AM-04014-5
JOHNSON, CARL R MH-07611-3
JOHNSON, CHARLES F. AM-07026-3
JOHNSON, CHARLES S., Jr GM-12504-1
JOHNSON, CHARLES W. AI-06085-1
JOHNSON, CHARLES W. FR-05422-4
JOHNSON, CLARENCE A. AI-02520-7
JOHNSON, CLARENCE M GM-12356-1
JOHNSON, E. MARSHALL HD-00109-2
JOHNSON, EDWARD A. HE-08620-2
JOHNSON, ELOISE E. AM-02471-6
JOHNSON, EMMETT J AM-08774-1
JOHNSON, EMMETT J. CA-05921-4
JOHNSON, ERWIN H. MH-11650-1
JOHNSON, GESTUR GM-11417-2
JOHNSON, HAROLD D. EF-00226-7
JOHNSON, HAROLD J. MH-10398-1
JOHNSON, J. RAYMOND HF-07994-3
JOHNSON, JOHN A HF-05517-5
JOHNSON, JOHN A. HF-07549-3
JOHNSON, JOHN I., Jr. MH-10116-1
JOHNSON, LORNA D CA-02034-12
JOHNSON, MARVIN J. AI-02967-6
JOHNSON, NEAL F. MH-11236-1
JOHNSON, NORMAN P. HD-00158-4
JOHNSON, PAUL C. AM-06221-4
JOHNSON, PAUL C. HF-05200-6
JOHNSON, PAUL F EF-00222-5
JOHNSON, PHILIP M. HE-09993-1
JOHNSON, RALPH M CA-04720-7
JOHNSON, RALPH M. HF-05473-5
JOHNSON, RICHARD T. NB-05244-2
JOHNSON, ROBERT E. LM-00008-1
JOHNSON, ROBERT L., Jr. HF-07744-3
JOHNSON, RUSSELL C. AI-06589-1
JOHNSON, SHARON L. GM-11834-2
JOHNSON, SHIRLEY A. HE-06033-5
JOHNSON, THOMAS N. NB-02151-6
JOHNSON, WALTER L HE-04731-5
JOHNSON, WALTER L. NU-00105-2
JOHNSON, WAYNE L. HD-01366-1

JOHNSON, WILLARD P. HE-09759-1
JOHNSON, WILLIAM H. HE-07751-3
JOHNSON, WILLIAM S AM-03787-6
JOHNSTON, ANDREW G. OM-01876-1
JOHNSTON, AUSTIN D. AM-07988-2
JOHNSTON, CHARLES L., Jr. AM-07835-2
JOHNSTON, CYRUS C., Jr. AM-07126-3
JOHNSTON, FRANCIS J. RH-00206-3
JOHNSTON, HAROLD S. AP-00104-6
JOHNSTON, J HAROLD HM-00399-1
JOHNSTON, JOHN M. AM-03108-6
JOHNSTON, PAUL B. AI-06494-1
JOHNSTONE, DOUGLAS F HE-02970-9
JOKLIK, WOLFGANG K. AM-08876-1
JOLLEY, HOMER R. AI-04913-3
JOLLEY, WELDON B. RH-00252-3
JOLLIE, WILLIAM P. CA-05813-4
JOLLIE, WILLIAM P. GM-11484-2
JONES, AUSTIN HD-00569-4
JONES, BARBARA MH-02479-7
JONES, CHARLES A. AM-05473-4
JONES, DAVID B. AM-09113-1
JONES, E. ELIZABETH HF-04300-7
JONES, E. WYNN CA-07726-1
JONES, E. WYNN AI-04357-4
JONES, F. NOWELL AI-06461-1
JONES, GALEN E. MH-06117-2
JONES, GEORGEANNA WP-00650-2
JONES, HARDIN B. AM-03806-6
JONES, HOWARD W., Jr. HE-02838-7
JONES, IVAN D. HD-00587-3
JONES, JACK C. EF-00539-2
JONES, JACK C. GM-06021-7
JONES, JAMES D. HF-05193-6
JONES, JAMES H. AM-06336-4
JONES, JESSE W. NB-03626-3
JONES, JOHN K.N. GM-11687-2
JONES, JOHN R. AM-04127-6
JONES, LILY A. HE-08964-2
JONES, LYLE V. AI-06621-1
JONES, MALCOLM D. MH-10006-1
JONES, MARGARET H. HD-00407-3
JONES, MARK M HD-00199-6
JONES, MARK M. GM-10972-3
JONES, MARSHALL R. GM-12151-2
JONES, MARY E MH-10527-1
JONES, OLIVER P. HD-01244-8
JONES, RICHARD D. CA-03458-8
JONES, RICHARD J. HE-08573-2
JONES, RICHARD W. HF-01119-14
JONES, ROBERT E., Jr. NB-02165-6
JONES, RUSSELL MH-11433-1
JONES, RUSSELL S. LM-00021-1
JONES, RUSSELL S. AM-02272-7
JONES, RUSSELL S. AM-04920-11
JONES, THOMAS C AM-07952-1
JONES, THOMAS C. GM-12457-1
JONES, THOMAS C. GM-12517-1
JONES, VERNON HD-00517-5
JONES, WALTER S. OM-01812-1
JONXIS, J.H.P. HD-01821-1
JORDAN, JERRY D. HF-06531-4
JORDAN, JOHN P. FR-05518-3
JORDAN, JOSEPH AM-09308-1
JORDAN, PAUL H., Jr. HF-02342-9
JORDAN, RAYMOND E. AM-09399-1
JORDAN, WILLIAM A CD-00012-9
JORGENSEN, EUGENE C DH-00048-1
JORGENSEN, EUGENE C. AM-04223-5
JORPES, JOHAN E AM-08066-2
JOSEPHSON, ROBERT K. AM-04410-3
JOSIMOVICH, JOHN B. NB-06054-1
JOSLYN, MAYNARD A. HD-01554-1
JOSSE, JOHN W EF-00080-4
JOUBLANC, EUGENE M GM-10642-3
JOULLIE, MADELEINE M. FR-05575-1
JOULLIE, MADELEINE M. AM-07684-2
JOYCE, CHARLES R.B. CA-07911-1
JOYCE, EUGENE TW-00045-3
JUDAH, JACOB D. NB-05914-1
JUDD, BURKE H AM-07226-3
JUDE, JAMES R GM-12338-1
JUDSON, WALTER E. HF-09332-1
JUDSON, WALTER E. HF-02961-8
JUDAY, RICHARD E. HF-09402-1
JUENGE, ERIC C. CA-05077-6
JUKES, THOMAS H. OH-00202-1
JUKES, THOMAS H GM-12158-2
JUKES, THOMAS H. GM-12326-1
JULIAN, GORDON R. GM-12932-1
JULIAN, ORMAND C. AI-06768-1
HF-06687-4

JULIAN, ORMAND C. HE-07574-3
JULIAN, ORMAND C. HE-09496-1
JUMP, ELLIS B. DE-01514-4
JUNG, RODNEY C. AI-04722-3
JUNGAS, ROBERT L. AM-08076-2
JUNGEBLUT, CLAUS W. CA-07884-2
JUNI, ELLIOT GM-09822-4
JUNIPER, KERRISON, Jr. AM-04613-3
JUNIPER, KERRISON, Jr. AM-08194-2
JUNKIN, FRANK F. OM-01806-2
JUNQUEIRA, LUIZ C.U. DE-01881-2
JURAND, JERRY G. DE-02286-1
JURADO-GARCIA, EDUARDO TW-00068-1
JURKIEWICZ, M.J. AM-03077-6
JURKIEWICZ, M.J. HD-01140-1
JURKO, MARION F. NB-04868-2
JURTSHUK, PETER, Jr GM-12279-1
JUTILA, JOHN W. AI-06552-1
JUTILA, JOHN W. CA-06460-3
KABARA, JON J. CA-07318-2
KABARA, JON J. NB-02235-6
KACZMARCZYK, ALEXANDER CA-07395-2
KADIS, LESLIE B. NB-05348-1
KAEBERLE, MERLIN L. AI-05013-3
KAEPPLER, ADRIENNE L. MH-11027-1
KAESTNER, NOEL F. AC-00169-2
KAGAN, BENJAMIN M. HD-00381-7
KAGAN, JEROME MH-08792-1
KAHLSON, GEORG HD-00255-5
KAHN, ARTHUR J. HE-04738-6
KAHN, DONALD R. HE-09385-1
KAHN, JOSEPH S. GM-09710-4
KAHN, JULIUS B., Jr. HE-06388-4
KAHN, MELVIN HE-06493-4
KAHN, PAUL C. HE-09624-1
KAHN, RAYMOND H. AM-06918-3
KAHN, ROBERT L. OM-01483-2
KAHN, ROBERT L. MH-11092-1
KAILIN, ELOISE W. GM-11886-2
KAISER, ARMIN D. AI-04509-4
KAISER, ELMER R. AP-00033-2
KAISER, ELMER R. EF-00530-2
KAISER, EMIL THOMAS AM-07957-2
Kaiser Fdn. Hospital Contr. MH-64-958
KAISER, IRWIN H. HD-01549-1
KAJI, AKIRA GM-12053-2
KAJIHIRO, EDWIN S. AI-05944-1
KALCKAR, HERMAN M. AM-05507-4
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KALDOR, GEORGE NB-03600-4
KALEY, GABOR HE-10078-1
KALF, GEORGE F. HE-06009-5
KALICKI, HENRIETTA G. GM-09739-3
KALISH, HARRY I. HF-00935-4
KALISS, NATHAN CA-01594-14
KALLIO, REINO E. GM-11297-2
KALLMAN, KLAUS D. CA-06665-3
KALLMAN, ROBERT F. CA-03353-9
KALMANSON, GEORGE M. AI-03310-6
KALSER, MARTIN H AM-05715-4
KALSER, SARAH CHINN AM-07702-2
KALTENBACH, JOHN P. CA-03152-8
KALTER, S.S. AI-05374-3
KAMEN, MARTIN D. HD-01262-4
KAMEYAMA, TADANORI GM-10635-3
KAMIN, HENRY AM-04662-5
KAMINETZKY, HAROLD A. CA-07386-2
KAMINSKI, ZIGMUND C. AI-03140-6
KAMPA, ELIZABETH M. NB-05628-1
KAMPMEIER, JACK A. CA-06535-3
KAMRIN, BENJAMIN B. MH-11057-1
KANCZAK, NORBERT M. CA-07840-2
KANDEL, ERIC R. NB-04550-2
KANDUTSCH, ANDREW A. CA-02758-10
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KANE, ROBERT E. GM-08626-5
KANEKO, JIRO J. HE-06678-4
KANEKO, YOSHIHIRO HF-09060-1
KANFER, FREDERICK H MH-06921-4
KANFER, FREDERICK H MH-06922-4
Kansas Univ. Med. Center Contr. AI-64-529
KANTER, GERALD S HE-09097-1
KANTOR, FRED S HF-07288-3
KANTOR, S. SVI AI-05360-1
KANTOR, THOMAS G. NB-04255-3
KANTROWITZ, ADRIAN HE-06510-4
KAO, CHIEN-YUAN HD-00378-8
KAO, FREDERICK F. HE-04032-12
KAPADIA, GOVIND J HE-06571-3
KAPADIA, GOVIND, J. MH-11119-1

KAPANY, NARINDER S. HE-07684-3
KAPLAN, ABRAHAM HE-07989-3
KAPLAN, ALBERT S. AI-02432-7
KAPLAN, ALBERT S. AI-03362-6
KAPLAN, ALEX HE-08423-2
KAPLAN, BERT MH-07913-2
KAPLAN, DAVID A. AM-06671-3
KAPLAN, ERVIN AM-06847-2
KAPLAN, EUGENE HD-01461-9
KAPLAN, HENRY S. CA-02896-9
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KAPLAN, IRA T. MH-08164-2
KAPLAN, MELVIN H. HE-04726-8
KAPLAN, NATHAN O. CA-03611-8
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KAPLAN, NORMAN M. AM-06938-3
KAPLAN, SAMUEL HF-02427-9
KAPLAN, SAMUEL HF-08906-1
KAPLAN, SOLOMON A AM-04235-6
KAPLAN, SOLOMON A. HD-00118-2
KAPLAN, STANLEY B. CD-00008-4
KAPLAN, STEPHEN MH-10462-1
KAPLAN, WILLIAM D. GM-10260-3
KAPLOW, LEONARD S. HE-09344-1
KAPOSTINS, ELI E. MH-10597-1
KAPPAUF, WILLIAM E. NB-05576-1
KAPRAL, FRANK A. AI-04490-3
KAPRAL, FRANK A. AI-04761-4
KAPSIMALIS, PETER DE-01877-2
KAPUR, KRISHAN K. DE-02117-2
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KAPUR, YASH P. NB-03648-4
KARAKASHIAN, STEPHEN J. GM-10730-3
KARE, MORLEY R. NB-03896-4
KAREL, MARCUS EF-00376-3
KARELITZ, SAMUEL HD-00316-2
KARELITZ, SAMUEL HD-00332-7
KARK, ALLAN E AM-08120-2
KARK, ROBERT M. HE-02253-9
KARLIN, LAWRENCE MH-07263-2
KARLIN, SAMUEL GM-10452-3
KARLSON, KARL E. GM-06343-7
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KARLSSON, JON I. MH-07519-2
KARMEN, ARTHUR GM-11535-2
KARNOFSKY, DAVID A. CA-03215-9
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KARNOVSKY, MANFRED L AI-03260-6
KARNOVSKY, MORRIS J. AM-05431-3
KARNOVSKY, MORRIS J. HE-09125-1
KARPELES, LEO M HF-06040-4
KARPOVICH, PETER V. AM-06724-3
KARSH, EILEEN B. MH-08419-2
KARUSH, FRED HF-06293-5
KARVONEN, MARTTI J. HF-04754-6
KARZON, DAVID T. AI-02396-6
KASAI, GEORGE J DF-00459-9
KASE, NATHAN G AM-06129-3
KASHGARIAN, MICHAEL AM-07369-3
KASHIWA, HERBERT K AM-04119-6
KASHKET, SHELBY AM-06214-3
KASIK, JOHN E. AI-05117-3
KASS, EDWARD H. HD-00215-4
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KASS, WALTER OM-01044-3
KASSEBAUM, DONALD G. HE-08008-2
KASTEN, FREDERICK H CA-07991-1
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KASWAN, JAQUES W. OM-01508-2
KATAHN, MARTIN MH-11149-1
KATCHADOURIAN, HERANT MH-06810-3
KATCHALSKI, EPHRAIM AM-08464-2
KATCHER, AARON H HF-08486-2
KATES, SOLIS L. HD-00336-5
KATHAN, RALPH H. AI-05333-3
KATSOYANNIS, PANAYOTIS G. AM-03067-5
KATSUKI, SHIBANOSUKE NB-03642-4
KATSUKI, YASUKI NB-02697-5
KATTI, SHRINIWAS K. GM-11038-2
KATTUS, ALBERT A., JR HF-08470-2
KATZ, ARNOLD M. HF-08515-2
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KATZ, EVELYN W MH-10614-1
KATZ, IRWIN MH-08051-1
KATZ, JACK NB-04650-2
KATZ, JOSEPH AM-03682-6
KATZ, LOUIS N. HF-06375-4
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KATZ, THOMAS J. MH-08912-2
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KATZMAN, PHILIP A. HD-01178-4
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KATZUNG, BERTRAM G. HE-07753-2
KAUFFMAN, SHIRLEY L. GM-07888-5
KAUFMAN, EDWARD G. DE-01506-3
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KAUFMAN, HAROLD F. OM-01229-2
KAUFMAN, HERBERT E. NB-03538-4
KAUFMAN, HERBERT E. NB-03954-2
KAUFMAN, I. CHARLES MH-04670-4
KAUFMAN, JOSEPH J. CA-07583-2
KAUFMAN, JOSEPH J. CA-08276-1
KAUFMAN, JOSEPH J. HE-09575-1
KAUFMAN, M. RALPH OM-01482-2
KAUFMAN, MELVIN F MH-08108-1
KAUFMAN, NATHAN AM-07883-2
KAUFMAN, WARREN J. WP-00544-3
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KAUFMANN, BERWIND N. CA-07363-3
KAUFMANN, BERWIND N. GM-11668-3
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KAUFMANN, OLIVER W. FF-00161-6
KAUZMANN, WALTER GM-11921-1
KAVALER, FREDERIC HE-05142-6
KAWAKAMI, MASAZUMI NB-03860-3
KAWAMURA, YOJIRO DE-01718-4
KAY, CALVIN F. HE-06352-5
KAY, CALVIN F HE-08805-1
KAY, CYRIL M. AM-06287-3
KAY, EARLE B HE-04581-6
KAY, ERNEST R.M. CA-05172-6
KAY, JEROME H. HE-09223-1
KAY, MARGARITA CH-00132-1
KAYDEN, HERBERT J. HE-06481-4
KAYE, GORDON I. GM-11343-2
KAYE, JEROME S. GM-09747-3
KAYE, ROBERT HD-00444-3
KAYE, SIDNEY AC-00184-2
KAYES, JACK NB-05550-1
KAZAL, LOUIS A. HF-03544-8
KE, BACON GM-12275-1
KEAN, ECCLESTON A. AM-07623-2
KEARNS, DAVID R. GM-10449-3
KEATS, ARTHUR S. NB-04436-3
KEATS, ARTHUR S. NB-04614-2
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KEDEM, ORA GM-09432-3
KEECH, MADELINE K. AM-07981-2
KEELER, CLYDE E. MH-11075-1
KEELER, MARTIN H. MH-06362-4
KEEN, PAUL CA-07003-1
KEENEY, EDMUND L. FR-05514-3
KEENEY, MARK AM-06248-3
KEESEY, RICHARD E. MH-08909-2
KEESEY, ULKER T. NB-04783-2
KEESHAN, CLARENCE P., SISTER AI-04293-4
KEGELES, GERSON GM-03449-14
KEGELES, GERSON GM-10869-5
KEHOE, ROBERT A. AP-00220-3
KEIGHLEY, GEOFFREY L. HF-07683-3
KEILIN, JOAN GM-11740-2
KEISER, GEORG A. TW-00137-1
KEITH, ROBERT A. MH-11674-1
KELEMEN, GEORGE NB-03339-4
KELLAWAY, PETER MH-05204-4
KELLAWAY, PETER NB-02468-6
KELLEHER, PHILIP C. GM-11547-2
KELLEHER, ROGER T MH-07658-3
KELLEN, WILLIAM R. AI-03496-5
KELLENBERGER, EDOUARD AI-04267-4
KELLER, DANIEL M. AM-04871-4
KELLER, ELIZABETH B. GM-10791-4
KELLER, MARK MH-09209-2
KELLER, PATRICIA J AM-08844-1
KELLER, PATRICIA J. GM-10358-3
KELLER, RICHARD A. GM-11473-3
KELLER, ROBERT AI-06550-1
KELLERMEYER, ROBERT W. AM-07841-2
KELLETT, JAMES C., Jr. NB-05420-1
KELLEY, FRANCIS P OM-01757-2
KELLEY, VINCENT C. AM-05541-3
KELLEY, VINCENT C. HD-01601-1
KELLN, ELMER E. HD-00172-3
KELLOGG, RALPH H. GM-09262-4
KELLEY, RITA M. CA-03740-8
KELLEY, THOMAS F. HF-07149-4
KELLOW, WILLIAM F. FR-05413-4
KELLNER, AARON HE-09011-2
KELLY, C.F. GM-09263-2

KELLY, FLORENE C. AI-01691-8
KELLY, JOHN W. AM-08939-1
KELLY, MILES F. OM-01770-2
KELLY, P.J. AM-08658-1
KELLY, STEPHEN J. NB-03452-4
KELLY, WILLIAM HE-05183-6
KELLY, WILLIAM A. NB-03920-2
KELLY, WILLIAM D. AI-06063-2
KELLY, WILLIAM D. AM-06687-3
KELLY, WILLIAM D. HE-07552-3
KELLY, WILLIAM G. AM-08244-2
KELMAN, HERBERT C. MH-07280-4
KELMKAMP, GEORGE K. GM-08185-5
KELSALL, MARGARET A. AM-06218-3
KEMP, HARDY A. OM-01773-2
KEMP, NORMAN E. GM-05867-7
KEMPE, C. HENRY AI-01632-10
KEMPE, C. HENRY AI-04186-7
KEMPE, C. HENRY FR-00069-3
KENDALL, FORREST E. HE-00052-18
KENDALL, PATRICIA L. GM-10629-2
KENDLER, TRACY S. HD-01361-1
KENDRICK, J.E. HE-04098-7
KENNADY, JOHN C. NB-04637-3
KENNAN, ALFRED L. AM-03313-6
KENNEDY, BYRL J. CA-03143-8
KENNEDY, BYRL J. CA-05862-4
KENNEDY, CHARLES B. AM-07494-3
KENNEDY, DONALD NB-02944-5
KENNEDY, ELIZABETH J. MH-08746-1
KENNEDY, EUGENE P. NB-02946-6
KENNEDY, JOHN H HE-09051-1
KENNELL, DAVID E. GM-09830-4
KENNELLY, SISTER MARY M. GM-10534-3
KENNY, ALEXANDER D. AM-04276-5
KENNY, FREDERIC M. NB-04963-3
KENNY, GEORGE E. AI-06720-1
KENSHALO, DAN R. NB-02992-5
KENT, ALLEN FR-00202-2
KENT, ALLEN GM-11987-1
KENT, ELIZABETH I. OM-01243-3
KENT, GEOFFREY AM-05986-4
KENT, GERALD J. HD-00764-2
KENT, HARRY A., Jr. GM-07184-5
KENT, NEIL D. MH-10197-1
KENT, SIDNEY P. AI-03188-6
KENTERA, DUSAN TW-00126-1
Kentucky Mental Health Fdn. Contr. MH-65-50
KENWORTHY, WALTER J. HD-01285-1
KENYON, ALAN J. AI-06474-6
KENYON, ALAN J. CA-06897-3
KENYON, ALAN J. CA-08105-1
KENYON, GERALD S. MH-11038-1
KENZY, SAM G. CA-07517-2
KEOGH, JACK F HD-01059-1
KEPPEL, GEOFFREY HD-01145-1
KEPPEL, GEOFFREY MH-10249-1
KERBY, GRACE P. AM-01251-9
KERKER, MILTON AP-00048-4
KERN, FRED, Jr. AM-07256-2
KERN, HAROLD L. NB-04591-3
KERN, HAROLD L. NB-05053-2
KERNOHAN, WILLIAM J. OM-01727-2
KERNOHAN, WILLIAM J. MH-10332-1
KERR, FREDERICK W. L. NB-04905-2
KERR, NORMAN S. AI-05521-2
KERR, RAYMOND E., Jr. AP-00285-2
KERSHBAUM, ALFRED HE-05989-5
KERSHBAUM, ALFRED HE-09085-1
KESSEL, RICHARD G. GM-09229-4
KESSEL, RICHARD G. HD-00699-2
KESSEN, WILLIAM HD-00890-7
KESSLER, DIETRICH GM-12463-1
KESSLER, HARRY S AM-08803-1
KESSLER, JANE W. MH-08049-2
KESTON, ALBERT S. AM-03548-6
KESTON, ALBERT S. CA-04784-5
KESTON, ALBERT S. NB-05075-2
KETCHEL, MELVIN M. HD-00055-2
KETCHEL, MELVIN HD-00624-3
KETHLEY, THOMAS W. OH-00019-6
KEUTMANN, E. HENRY AM-08567-14
KEY, JOE L. GM-10157-4
KEYL, M. JACK HE-08350-2
KEYS, ANCEL HE-04697-6
KEYS, ANCEL B. HE-04997-5
KEYS, ANCEL HE-07381-3
KEZDI, PAUL HE-06371-4
KEZER, JAMES GM-12431-1
KHACHADURIAN, AVEDIS K. AM-04270-5
KHALAF, KAMES T. GM-12896-1
KHARASCH, NORMAN AM-00703-11
KHARASCH, NORMAN GM-09948-4
KHORANA, HAR GOBIND CA-05178-5
KHURI, RAJA N. AM-09275-1
KIANG, AI KIM GM-11466-2
KIBRICK, ANDRE C. AM-06706-4
KIBRICK, SIDNEY AI-04305-4
KICE, JOHN L. GM-12104-1
KIDD, JOHN G. CA-06833-3
KIDDER, GEORGE W. AM-01005-13
KIDDER, GEORGE W. CA-02924-9
KIEN, GERALD A. HE-07873-3
KIENZLE, GEORGE J. DE-01230-5
KIER, LEMONT B. GM-13100-1
KIESEWETTER, WILLIAM B. HD-01208-6
KIESLER, FRANK OM-01918-1
KIGUEL, ENRIQUE DE-01886-2
KIHLMAN, BENGT A. GM-09319-3
KIKKAWA, HIDEO GM-10154-3
KIKUCHI, GORO AM-08016-2
KIKUDOME, GARY Y. GM-12353-1
KILBOURNE, EDWARD D. AI-01595-8
KILBURN, KAYE H. HE-07868-3
KILDAHL, JOHN P. MH-10514-1
KILGORE, WENDELL W. CA-06870-3
KILGORE, WENDELL W. HD-01265-4
KILHAM, LAURENCE CA-06010-4
KILKSON, REIN AI-03399-5
KILLAM, KEITH F. Jr. MH-03241-7
KILLAM, KEITH F., Jr. MH-03374-6
KILLIAN, E.W. OM-01769-2
KILLINGER, ARDEN H. CC-00140-1
KILLIP, THOMAS, III HE-07044-4
KILPATRICK, ROBERT AM-06924-3
KIM, KE CHUNG AI-05436-2
KIM, KI-HAN GM-12648-2
KIMBALL, HOWARD W. CA-07595-2
KIMBALL, ROBERT W. NB-04075-3
KIMBEL, PHILIP HE-05536-5
KIMBERG, DANIEL V AM-07625-3
KIMBLE, DANIEL P. MH-08545-2
KIMBLE, GREGORY A. MH-08090-3
KIMBLE, GREGORY A. MH-11071-1
KIMMEL, DONALD L. NB-02311-6
KIMMEL, DONALD L. NB-02312-5
KIMMEL, DONALD L. NB-05589-1
KIMMEL, HERBERT D. MH-06060-4
KIMMEL, JOE R. AM-09072-2
KIMMELSTIEL, PAUL AM-06866-3
KIMURA, SAMUEL J. NB-02542-6
KIMURA, TOKUJI AM-09243-1
KINARD, FREDERICK W. NB-02465-5
KINCH, JOHN W. MH-11429-1
KIND, PHYLLIS D. AM-08885-1
KINDEL, PAUL AM-08608-2
KINDIG, JAMES K. AP-00065-2
KINDRED, ROBERT G. AM-06827-4
KING, DONALD W. CA-05981-5
KING, DOROTHY W. HD-00634-2
KING, E. RICHARD CA-07226-2
KING, GERALDINE A. NB-02373-8
KING, J. STANTON, Jr. AM-08050-2
KING, JAMES E. MH-10246-1
KING, JAMES R. NB-04587-3
KING, JOHN A. MH-05643-4
KING, JOHN H. NB-05475-1
KING, JOHN H., Jr. NB-02062-7
KING, JOHN S. RH-00253-2
KING, KENDALL W. AM-08030-2
KING, KENDALL W. GM-05642-7
KING, LESTER S. GM-09214-3
KING, LOWELL R. AM-08622-1
KING, LOWELL R. AM-08623-2
KING, LUCY J MH-07425-3
KING, M. KENTON FR-05389-4
KING, MURRAY V AM-04852-4
KING, ROBERT B. NB-01503-8
KING, ROBERT C. GM-09694-4
KING, ROBERT L. NB-03990-3
KING, STANLEY H. MH-09151-7
KING, THOMAS J. CA-05755-5
KING, TSOO E. GM-08511-3
KING, TSOO E. HE-04852-6
KINGSLAND, LAWRENCE C., Jr. GM-09909-3
KINNARD, WILLIAM J. MH-06540-4
KINNEY, JOHN M. AM-07589-2
KINNEY, THOMAS D. AM-04839-6
KINNEY, THOMAS D. GM-07813-3
KINNEY, THOMAS D. GM-08168-5
KINOSHITA, JIN H. NB-04288-3
KINOSITA, RIOJUN CA-05756-4
KINOSITA, RIOJUN CA-06019-4
KINOSITA, RIOJUN CA-06477-4
KINROSS-WRIGHT, V. JOHN MH-08399-3
KINSELL, LAURANCE W. HE-00955-14
KINSELL, LAWRENCE W. HE-07292-3
KINSELLA, RALPH A., Jr. AM-08970-1
KINSEY, V EVERETT NB-01100-9
KINSKY, STEPHEN C. AI-05114-3
KINTER, WILLIAM B. AM-06479-4
KINTNER, ROBERT C. WP-00366-3
KINZEY, WARREN G. HD-01596-1
KIPLINGER, GLENN F. MH-11278-1
KIRBY, BERNARD C. OM-01320-2
KIRKMAN, HENRY N., Jr. AM-06356-3
KIRKPATRICK, CHARLES H. AI-06771-1
KIPNIS, DAVID M. AM-01921-8
KIPNIS, DAVID M. FR-00036-5
KIRCHHEIMER, WALDEMAR F. AI-03636-5
KIRCHNER, JOHN A. NB-05465-1
KIRGIS, HOMER D. NB-04926-2
KIRK, EDWARD S. HE-08658-2
KIRK, JOHN E. HE-00891-14
KIRK, PAUL L. AC-00185-7
KIRKHAM, DON WP-00070-4
KIRKLIN, JOHN W. HE-08849-2
KIRKMAN, HADLEY CA-02791-9
KIRKMAN, HADLEY CA-04516-6
KIRMAN, JACOB H MH-10565-1
KIRSCH, EDWIN J. WP-00760-1
KIRSCH, JACK F GM-12278-1
KIRSCHBAUM, WALTER R. NB-04654-2
KIRSCHENBAUM, DONALD M. AM-06781-3
KIRSCHNER, LEONARD B. GM-04254-11
KIRSHNER, NORMAN AM-05427-4
KIRSNER, JOSEPH B. AM-02133-8
KIRSNER, JOSEPH B. AM-07542-2
KIRSNER, JOSEPH B. AM-09123-1
KIRSNER, JOSEPH B. CA-09467-9
KIRSTEN, WERNER H. CA-04311-7
KISLIUK, ROY L. GM-11871-2
KISSANE, JOHN M. HE-03930-7
KISTIAKOWSKY, GEORGE B. AP-00349-2
KISTIN, ALBERT D. HE-07578-3
KISTNER, ROBERT W. CA-05955-3
KIT, SAUL CA-06656-3
KITABCHI, ABBAS E. AM-07004-3
KITANO, HARRY H. MH-11112-1
KITAY, JULIAN I. AM-03370-6
KITCHELL, J. RODERICK HE-08212-3
KITCHELL, RALPH L. NB-05786-1
KITTLE, C. FREDERICK HE-04392-5
KITTLE, C. FREDERICK HE-08609-1
KITZMILLER, JAMES B. AI-03486-5
KIVEL, RAYMOND M AM-05502-3
KIVELSON, DANIEL GM-11125-3
KIYASU, JOHN Y. AM-07976-3
KJELLBERG, RAYMOND N. NB-02233-5
KLAPPER, CLARENCE E. DE-01663-3
KLAPPER, CLARENCE E. DE-01760-3
KLATSKIN, GERALD AM-05966-4
KLATTE, ERNEST OM-01833-2
KLAUMINZER, FREDERICK A. OM-01797-2
KLAUS, DAVID J. NU-00158-1
KLAUS, MARSHALL HD-01464-1
KLAUS, MARSHALL H. HE-09504-1
KLAUS, RUPERT A. OM-00765-4
KLAVINS, JANIS V. AM-05559-4
KLAVINS, JANIS V. CA-07136-2
KLEBANOFF, SEYMOUR J. GM-10310-3
KLEE, GERALD OM-01908-1
KLEEMAN, CHARLES R. AM-06087-4
KLEEMAN, CHARLES R. AM-04427-3
KLEEMAN, CHARLES R. AM-07190-2
KLEEMAN, CHARLES R. NB-05905-1
KLEHR, EDWIN H. WP-00373-2
KLEIN, DAVID NB-04590-2
KLEIN, DEANA T. GM-11795-1
KLEIN, DONALD F. MH-08004-2
KLEIN, EDMUND AM-06362-4
KLEIN, EDWARD B. MH-08050-2
KLEIN, GEORGE CA-03700-8
KLEIN, GEORGE CA-04747-7
KLEIN, MALCOLM W. MH-07993-2
KLEIN, MORTON GM-11641-2
KLEIN, RICHARD L. HE-07056-3
KLEIN, ROBERT HD-01519-1
KLEIN, S. WAYNE HD-00292-5
KLEINER, ROBERT J. MH-10690-1
KLEINFELD, MORRIS HE-09377-1
KLEINFELD, RUTH G. CA-06784-3
KLEINFELD, RUTH G GM-12191-2
KLEINHOLZ, LEWIS H. NB-02606-6
KLEINMUNTZ, BENJAMIN GM-11734-2

ALPHABETICAL LISTING OF INVESTIGATORS

KLEMM, LEROY H. CA-03097-8
KLEMM, LEROY H. CA-05969-4
KLEMM, LEROY H. GM-12730-1
KLEMM, WILLIAM R. MH-10584-1
KLEMPERER, WILLIAM A. GM-11578-2
KLEPFER, J. OM-01960-1
KLIEWER, DEAN OM-01648-2
KLIGERMAN, MORTON M. CA-06519-3
KLIGMAN, ALBERT M. HD-01028-1
KLIGMAN, ALBERT M. OH-00108-4
KLIMAN, BERNARD AM-06731-3
KLIMT, CHRISTIAN R. AM-06876-3
KLIMT, CHRISTIAN R. HE-08888-1
KLINE, DANIEL L. HE-07162-4
KLINE, EDWARD S. AM-08609-2
KLINE, NATHAN S. FR-05561-3
KLINE, NATHAN S. MH-03031-7
KLINE, NATHAN S. MH-07292-3
KLING, ARTHUR HD-00356-4
KLING, J.W. MH-05767-4
KLINGBERG, WILLIAM G. CA-07757-1
KLINGENBERG, MARTIN AM-07165-3
KLINGER, HAROLD P. GM-11556-2
KLINGMAN, GERDA I. AM-06594-3
KLINGMAN, JACK D. NB-03697-4
KLINKHAMER, JAMES M. GM-06331-6
KLINMAN, CYNTHIA S. MH-11329-1
KLIONSKY, BERNARD HE-06826-4
KLIP, WILLEM HE-05379-6
KLITGAARD, HOWARD M. AM-00957-9
KLITGAARD, HOWARD M. AM-01706-7
KLOCKE, FRANCIS J. HE-09587-1
KLOPFER, PETER H. MH-04453-5
KLOSTERMAN, HAROLD J. AM-03024-7
KLOTZ, IRVING M. GM-09280-4
KLOTZ, IRVING M. HE-08299-2
KLUVER, HEINRICH MH-01981-8
KNAPP, DAVID A. CH-00177-1
KNAPP, DONALD E. HD-01460-1
KNAPP, LAFAYETTE W., Jr. AC-00012-3
KNAPP, PETER H. MH-06795-4
KNAPP, PETER H. MH-11299-1
KNAUFF, RAYMOND E. AM-06965-3
KNEISEL, JOHN J. HE-07052-5
KNIFFEN, JARED C. DE-01999-2
KNIGGE, KARL M. AM-03647-6
KNIGGE, KARL M. AM-10002-1
KNIGHT, C. ARTHUR AI-00634-12
KNIGHT, KENNETH L. AI-05119-3
KNIGHT, STANLEY G. AI-01201-9
KNIGHT, WILLIAM A., Jr. AM-06300-3
KNIGHTS, EDWIN M., Jr. GM-10920-3
KNISELY, MELVIN H. HE-04176-7
KNISELY, MELVIN H. HE-07114-4
KNOBIL, ERNST AM-05654-5
KNOBIL, ERNST AM-05655-5
KNOEBEL, LEON K. AM-03894-5
KNOWLES, HARVEY C., Jr. AM-04401-5
KNOWLES, HARVEY C., Jr. FR-00068-3
KNOWLES, R R MH-11384-1
KNOX, W. EUGENE AM-00567-12
KNUPFER, GENEVIEVE MH-09226-1
KNUTSON, ROBERT C. NB-05522-1
KNUTTGEN, HOWARD G. HD-00667-3
KO, KWANG W. AM-07621-2
KOBAYASHI, GEORGE S. AI-06213-2
KOBAYASHI, HIDESHI AM-03678-6
KOBAYASHI, JUN WP-00359-3
KOBAYASHI, YUTAKA AI-01135-9
KOBAYASHI, YUTAKA MH-10587-1
KOBAYASHI, YUTAKA MH-11291-1
KOBERLE, FRITZ AI-06498-1
KOBERNICK, SIDNEY D. HE-07206-4
KOBLICK, DANIEL C. GM-11806-2
KOBLICK, DANIEL C. NB-05179-2
KOCH, ALAN R. HE-04469-6
KOCH, ALAN R. NB-04653-3
KOCH, ARTHUR L. CA-07404-2
KOCH, RICHARD AM-04837-5
KOCH, RICHARD OM-01054-3
KOCH, WILLIAM E. DE-01894-3
KOCH-WESER, JAN HE-08643-2
KOCHAKIAN, CHARLES D. CA-03566-9
KOCHAN, IVAN AI-03363-6
KOCHEN, JOSEPH A. HE-07234-3
KODANI, MASUO HD-00998-2
KOELLA, WERNER P. MH-02211-7
KOELLA, WERNER P. NB-04579-3
KOELLE, GEORGE B. NB-00282-13
KOENIG, EDWARD NB-04656-3
KOENIG, EDWARD NB-05253-2
KOENIG, HAROLD NB-01456-7
KOENIG, HAROLD NB-04493-3
KOENIG, HAROLD NB-05509-1
KOENIG, KARL P. MH-11375-1
KOENIG, VIRGIL I NB-05456-1
KOEPPE, OWEN J. AI-05084-3
KOEPPE, ROGER E. GM-06765-7
KOERNER, JAMES F. AI-04479-4
KOERNER, JAMES F. GM-12098-2
KOESTNER, ADALBERT NB-03423-3
KOFFLER, DAVID AM-07790-2
KOFFLER, HENRY AI-00575-11
KOFFLER, HENRY AI-00685-12
KOFMAN, SYDNEY CA-07343-2
KOGEL, MARCUS D. FR-00050-4
KOGEL, MARCUS D. FR-00066-3
KOGEL, MARCUS D. FR-05397-4
KOH, SOON D MH-10094-2
KOHN, ALEXANDER AI-04211-3
KOHN, MARTIN MH-10341-1
KOHN, PAUL AM-04967-5
KOHN, ROBERT R. HD-00669-5
KOIVUSALO, MARTTI J. TW-00089-1
KOKAS, ESZTER AM-04675-5
KOKETSU, KYOZO NB-01650-8
KOLB, LAWRENCE C FR-05560-3
KOLB, LAWRENCE C. OM-01957-1
KOLBE, HENRY W. FR-00107-2
KOLBE, HENRY W. FR-05508-3
KOLER, ROBERT D. CA-07941-1
KOLFF, WILLEM J. HE-04448-7
KOLIN, ALEXANDER HE-03092-5
KOLLROS, JERRY J. AM-02202-7
KOLMEN, SAMUEL N. AM-08449-2
KOLTHOFF, IZAAK M. CA-00721-17
KOLTHOFF, NORMA J. HE-09446-1
KOMAI, TAKU GM-09469-3
Kommune Hospitalet Contr. MH-65-1026
KON, S K AM-06771-2
KONETZKA, WALTER A. AI-05630-3
KONIGSBERG, WILLIAM GM-12607-1
KONIGSMARK, BRUCE W. NB-04609-2
KONISHI, FRANK AM-07754-2
KONISHI, JIHEI NB-04727-2
KONISHI, TERUZO NB-05016-2
KONO, TETSURO AM-06725-4
KONOPKA, GISELA OM-01055-3
KONZAK, CALVIN F. GM-10838-7
KOOI, KENNETH A. NB-02560-6
KOPAC, M J. CA-02018-11
KOPELOFF, LENORE M. NB-00875-8
KOPPENAAL, RICHARD J. MH-11284-1
KOPPMAN, JERRY W. MH-10276-1
KOPRA, LENNART L. NB-04308-3
KOPROWSKA, IRENA CA-03654-9
KOPROWSKA, IRENA CA-08050-1
KOPROWSKI, HILARY AI-01799-8
KOPROWSKI, HILARY AI-02954-6
KOPROWSKI, HILARY CA-04534-7
KOPROWSKI, HILARY FR-05540-3
KORC, ISRAEL TW-00025-3
KORIN, HYMAN AC-00195-2
KORIN, HYMAN MH-10768-1
KORITZ, SEYMOUR B. AM-03676-6
KORMAN, SAMUEL CA-07568-2
KORNBERG, ARTHUR GM-07581-4
KORNBLUM, SYLVAN MH-07197-3
KORNEL, LUDWIG HE-04751-5
KORNER, ANNELIESE F. HD-00825-2
KORNETSKY, CONAN MH-03312-6
KORNGOLD, LEONHARD CA-04798-7
KORNGOLD, LEONHARD CA-04799-7
KORNGUTH, STEVEN E. NB-03729-3
KORNGUTH, STEVEN E NB-05631-1
KORSON, ROY CA-07149-3
KORY, ROSS C. HE-09630-1
KOSAKI, TAKEKAZU CA-04795-6
KOSIKOWSKI, FRANK V. EF-00003-5
KOSIKOWSKI, FRANK V. EF-00459-3
KOSKI, P KALEVI HD-00177-3
KOSKI, WALTER S. GM-05144-8
KOSKOFF, YALE D. NB-01601-8
KOSOWER, EDWARD M. GM-09133-3
KOSOWER, EDWARD M. GM-11334-2
KOSOWER, NECHAMA S. HE-10039-1
KOSTERLITZ, HANS W. NB-03026-5
KOSTYO, JACK L. AM-04521-5
KOSUGE, TSUNE AI-06491-1
KOSUNEN, TIMO U. TW-00051-3
KOSZALKA, THOMAS R. AM-05170-5
KOSZEWSKI, BOHDAN J. CA-05774-3
KOSZEWSKI, BOHDAN J. HE-08354-2
KOT, PETER A. HE-08590-2
KOTCHER, EMIL AM-08683-1
KOUNIN, JACOB S. MH-04221-5
KOUSHANPOUR, ESMAIL HE-09735-1
KOUWENHOVEN, WILLIAM B. HE-02709-9
KOVACIC, PETER GM-12096-2
KOVACS, JOSEPH GM-06579-6
KOVACS, JOSEPH GM-08795-4
KOWABANY, GEORGE N. GM-10158-3
KOWALCZYK, TED AM-05459-4
KOWALSKY, ARTHUR AM-06940-3
KOWLESSAR, O. DHODANAND AM-07851-2
KOZINN, PHILIP J. HD-01029-1
KOZINSKI, A W CA-07999-1
KOZLOFF, LLOYD M. AI-06336-1
KRAATZ, C P. AM-05166-5
KRAENZEL, CARL F. OM-01637-2
KRAFT, ALAN M. OM-01484-2
KRAFT, ALAN M. OM-02069-1
KRAFT, LISBETH M. AI-07035-1
KRAFT, LISBETH M. CA-08516-1
KRAHL, MAURICE E. AM-01653-8
KRAHL, VERNON E. HE-02454-9
KRAKOFF, IRWIN H. CA-08211-1
KRAKOWER, CECIL A. HE-01623-14
KRALL, ALBERT R MH-08971-2
KRAMAR, JENO HE-01151-13
KRAMER, BENJAMIN AM-01432-9
KRAMER, JOHN P. AI-05068-3
KRAMER, NORMAN C. AM-07178-3
KRAMER, SIMON CA-06942-3
KRAMER, STANLEY Z. NB-05527-1
KRAMISH, DAVID AM-03835-5
KRAMPITZ, LESTER O. AI-00253-14
KRAMPITZ, LESTER O. HE-03791-8
KRANE, STEPHEN M. AM-03564-6
KRANT, MELVIN J. CA-07167-3
KRANTZ, DAVID H. MH-11504-1
KRANTZ, DAVID L. MH-07876-2
KRANTZ, GERALD W. AI-04693-3
KRANTZ, KERMIT E. HD-01215-6
KRAPCHO, A PAUL GM-08241-5
KRASCHENINNIKOW, SHERHIJ GM-12652-2
KRASNA, ALVIN I. GM-12198-2
KRASNER, LEONARD P MH-06191-4
KRASNER, ROBERT I. AI-03200-5
KRASNOW, NORMAN HE-07982-3
KRAUS, ALFRED P. AM-03803-6
KRAUS, FREDERICK W. DE-01935-3
KRAUS, FREDERICK W. DE-01201-6
KRAUS, LORRAINE M. AM-08592-2
KRAUS, LORRAINE M. HE-06627-4
KRAUSE, MERTON S. MH-05031-5
KRAUSE, MERTON S. OM-00764-3
KRAUSE, REGINALD F. HE-08291-2
KRAUSE, RICHARD M. AI-06154-1
KRAUSE, RICHARD M. HE-08027-3
KRAUT, JOSEPH GM-10928-3
KRATZER, F H. AM-05334-4
KRAYER, OTTO HE-02205-10
KREAM, JACOB AI-02649-6
KREBS, EDWIN G. AM-06942-3
KREBS, EDWIN G. AM-07873-2
KREBS, HANS A. AM-08715-1
KREHL, WILLARD A. FR-00059-4
KREIDBERG, MARSHALL B. HM-00235-2
KREIER, JULIUS P. AI-06108-2
KREKE, CORNELIUS W. NB-04902-2
KREMENTZ, EDWARD T. CA-05837-4
KREMZNER, LEON T NB-05594-1
KRENKEL, PETER A WP-00328-4
KRESGE, A J. GM-09369-3
KRETCHMER, HENRY E. MH-07591-3
KRETCHMER, NORMAN FR-00081-3
KRETCHMER, NORMAN HD-00391-6
KREUZER, FERDINAND J.A. HE-06446-4
KRIEGER, HOWARD P. NB-02893-4
KRIEGER, INGEBORG HD-01104-1
KRIEGER, IRVIN M. HE-09415-1
KRIGBAUM, WILLIAM R. GM-09767-3
KRIKOS, GEORGE A AM-03400-6
KRILL, ALEX E. NB-05342-2
KRILL, WALTER R. FR-05463-3
KRIMM, SAMUEL AM-02830-8
KRINSKY, NORMAN I. GM-07984-5
KRIPPAEHNE, WILLIAM W. AM-06282-4
KRISBERG, JANE OM-00510-5
KRISHER, LAWRENCE C. GM-12118-2
KRISHNA, NARENDRA NB-02555-4
KRISS, JOSEPH P AM-07642-2
KRISS, JOSEPH P. CA-06135-4
KRITCHEVSKY, DAVID HE-03299-8

KRITCHEVSKY, DAVID HE-05209-5
KRITCHEVSKY, DAVID HE-09103-1
KRIVIT, WILLIAM CA-07306-2
KRIVIT, WILLIAM HE-05341-6
KRIVOY, WILLIAM A. MH-03477-6
KRIVOY, WILLIAM A. MH-10146-1
KRIVSHENKO, JAKOV GM-03934-12
KROEPSCH, ROBERT H. OM-01437-2
KROGMAN, WILTON M. HD-00993-1
KROGMANN, DAVID W. GM-07658-5
KROHMER, JACK S. CA-08232-1
KROMAN, HENRY S. NB-03974-4
KRON, REUBEN E. MH-05550-5
KRON, REUBEN E. MH-07843-2
KRONFELD, DAVID S. AM-04927-5
KRONFELD, DAVID S. AM-08392-2
KRONMAN, JOSEPH H. DE-01863-3
KRONSTAD, WARREN E. EF-00629-1
KROPF, ALLEN NB-01973-5
KRUEGER, ALBERT P. AP-00002-6
KRUEGER, ROBERT C. GM-12421-1
KRUGER, GUSTAV O. DE-01599-3
KRUGER, LAWRENCE NB-04578-3
KRUGER, LAWRENCE NB-05685-1
KRUGER, PAUL ES-00047-1
KRUIDENIER, FRANCIS J. AI-01319-9
KRUM, ALVIN A. AM-05904-4
KRUPP, IRIS M. AI-03461-5
KRUPP, MARCUS A. FR-05513-3
KRUS, DONALD M. MH-02262-8
KRUSBERG, LORIN R. AI-03808-5
KRUSH, THADDEUS P. OM-00967-3
KRUSH, THADDEUS P. OM-00968-4
KRUTZSCH, PHILIP H. GM-12893-1
KRYSTAL, HENRY MH-10726-1
Kuakini Hosp. Contr. HE-65-1003
KUBES, ZDENEK HE-08090-1
KUBY, STEPHEN A. AM-07824-2
KUCK, JOHN F.R., Jr. NB-04866-2
KUCHINSKAS, EDWARD J. AM-02478-7
KUCHLER, ROBERT J. CA-06895-3
KUETTNER, KLAUS E. AM-09132-1
KUFFLER, STEPHEN W. NB-02253-6
KUHL, DAVID E. CA-04456-7
KUHLENBECK, H ARTWIG NR-04999-2
KUHLMAN, ROBERT E. AM-03513-6
KUHN, CEDRIC W. GM-12039-2
KUHN, LESLIE A. HF-04132-6
KUIDA, HIROSHI HE-04299-7
KUIDA, HIROSHI HE-07618-3
KUKRAL, JOHN C. GM-13655-1
KULKA, JOHANNES P. AM-02349-7
KUMAGAI, TSUTOMU HM-00264-2
KUMAR, DHIRENDA HD-00427-3
KUMAR, DHIRENDRA HD-00515-5
KUMAR, SOMA AM-05156-5
KUMAR, SOMA AM-08977-1
KUMATE-RODRIGUEZ, J. AI-04042-4
KUMLER, WARREN D MH-08787-1
KUMMEROW, FRED A. CA-01932-12
KUMMEROW, FRED A. HF-03063-8
KUN, ERNEST CA-07955-1
KUN, ERNEST HD-01239-9
KUNIN, ARTHUR S. AM-04340-3
KUNIN, CALVIN M. CC-00091-5
KUNKEL, HENRY G. AM-04761-5
KUNSTADTER, PETER GM-11844-2
KUNTZ, ROBERT R RH-00321-2
KUPCHAN, S. MORRIS CA-04500-7
KUPCHAN, S. MORRIS FR-05456-3
KUPCHAN, S. MORRIS HF-02275-10
KUPCHAN, S. MORRIS HE-02952-9
KUPFER, CARL NR-02207-6
KUPFER, CARL NB-03483-3
KUPFER, CARL NB-05652-1
KUPFER, SHERMAN AM-07685-2
KUPKE, DONALD W. GM-10860-6
KUPKE, DONALD W. GM-12569-2
KURAHASHI, KIYOSHI AM-04600-5
KURATSUNE, MASANORI CA-09815-4
KURLAND, ALBERT A. MH-05529-5
KURLAND, ALBERT A. MH-07616-3
KURLAND, ALBERT A. MH-08104-2
KURLAND, ALBERT A. MH-08474-2
KURLAND, ALBERT A. MH-11001-1
KURLAND, CHARLES G. GM-12411-1
KURLANDER, ARNOLD B. FR-05556-3
KURNICK, N B CA-03824-8
KURNICK, NATHANIEL B. HE-10077-1
KURODA, YUKIAKI TW-00058-3
KURTZ, STANLEY M. AM-06677-3
KURTZKE, JOHN F. NB-05834-1
KURZE, THEODORE HE-07972-3
KUSCHNER, MARVIN RH-00047-7
KUSHINSKY, STANLEY AM-09908-1
KUSHNER, DANIEL S. FR-05366-4
KUSHNER, IRVING HE-09353-1
KUSSEROW, BERT K. HF-05033-6
KUSTIN, KENNETH GM-08893-4
KUTT, HENN HE-04872-6
KUTT, HENN NB-05329-1
KUWANA, THEODORE GM-11470-2
KUYPER, ADRIAN C. AM-00413-8
KUYPERS, HENRICUS G.J.M. NB-04634-3
KWAAN, HAU C. HF-07804-3
KWART, HAROLD GM-11415-2
KWASS, GEORGE F. CA-07971-1
KYDD, WILLIAM L. DE-01829-3
KYLE, LAURENCE H. AM-02756-6
LABBE, ROBERT F. AM-02164-8
LABELLA, FRANK S. AM-05896-3
LABEN, ROBERT C. FR-00009-1
Lab. Supply Co. Contr. CA-65-9
Lab. Supply Co. Contr. CA-65-10
Laboratory Supply Contr. CA-65-624
LACEY, JOHN I. MH-00623-12
LACH, JOHN L. GM-06607-4
LACHER, JOHN R GM-08264-5
LACHMAN, ROY MH-10744-1
LACK, LEON AM-09582-1
LACY, PAUL E. AM-01226-9
LACY, PAUL E. AM-03373-6
LACY, PAUL E. AM-06181-4
LACY, PAUL E. GM-08574-4
LADEFOGED, PETER N. NB-04595-3
LADNER, K.J. FR-05530-3
LA DU, BERT N., Jr. AM-07663-2
LA DU, BERT N., Jr. AM-08577-1
LaDUE, JOHN S. HE-01978-11
La DUE, JOHN S. HF-04886-5
LAFFAL, JULIUS MH-06228-3
LA FORCE, RICHARD C. HF-08574-2
LAGERKVIST, ULF G. GM-10121-3
LAGO, GLADWYN V. MH-10936-1
LAGOWSKI, J.J. GM-11915-2
LAGUNA, JOSE HF-07125-3
LAGUNOFF, DAVID AM-08516-2
LAHEY, M. EUGENE FR-05467-2
LAIDLAW, HARRY H. GM-11448-2
LAIRY, GABRIELLE HD-00008-2
LAJTHA, ABEL NB-03226-5
LAJTHA, ABEL NB-08360-3
LAKE, RAYMOND B., Jr. Lakeview Hamster HM-00307-1
Lakeview Hamster Contr. CA-65-564
Lakeview Hamster Contr. CA-65-579
LAKIN, MARTIN OM-01468-2
LALEZARI, PARVIZ HF-10036-1
LALICH, JOSEPH J. AM-06444-3
LaLONDE, ROBERT T. GM-07863-3
LaMARCHE, PAUL H. CA-07992-1
LAMB, EMMET J. HD-00070-2
LAMB, JAMES C., III WP-00569-2
LAMBERT, EDWARD C. HF-07007-3
LAMBERT, EDWARD C. HE-09474-1
LAMBERT, JACK L. WP-00235-4
LAMBERT, JACK L. WP-00326-4
LAMBERT, PETER B. GM-08772-4
LAMBERT, WILLIAM W MH-11193-1
LAMBERTSEN, C.J. HF-08899-1
LAMBERTSEN, CHRISTIAN J. HF-08184-2
LAMBERTSEN, ELEANOR C. NH-00048-3
LAMBOOY, JOHN P. CA-07949-1
LAMBOOY, JOHN P HD-01306-1
LAMER, VICTOR K WP-00240-3
LAMMERS, WILLIAM T. RH-00183-2
LAMONT-HAVERS, RONALD W AM-08770-1
LAMPE, KENNETH F. CA-08160-1
LAMPEN, J. OLIVER AI-04572-4
LAMSON, BALDWIN G. HM-00300-1
LAMY, FRANCOIS HF-02975-9
LAMY, MAURICE HD-00320-5
LANCASTER, J.L., Jr. AI-04950-2
LANCHANTIN, GERARD F. HE-04842-6
LANCHANTIN, GERALD F. HF-07703-3
LANDAU, BERNARD R. AM-06810-3
LANDAU, JOSEPH V. CA-02664-9
LANDAU, RICHARD L. AM-01528-8
LANDAU, RICHARD L. HD-00469-9
LANDAU, RICHARD L. HD-01290-1
LANDAUER, THOMAS K. MH-11761-1
LANDING, BENJAMIN H. AM-07553-2
LANDMAN, OTTO E AI-05972-2
LANDON, ERWIN J. AM-04703-5
LANDON, ERWIN J. AM-08649-2
LANDOR, JOHN H. AM-07750-2
LANDS, WILLIAM E.M. AM-05310-4
Landsteiner Fdn. Contr. AI-65-993
LANDY, JEROME J HD-00859-4
LANE, CHALMERS OM-01788-2
LANE, ELLEN A MH-05186-4
LANE, JOSEPH CA-05921-4
LANE, M. DANIEL AM-09116-1
LANE, M. DANIEL AM-09117-1
LANE, MONTAGUE CA-05630-5
LANE, NATHAN AM-07228-3
LANG, CALVIN A HD-01522-1
LANG, GOTTFRIED O. MH-11036-1
LANG, PETER J. MH-10993-1
LANG, ROBERT I DH-00036-2
LANGDON, ROBERT G HF-01731-12
LANGE, CHARLES F., Jr. AM-06809-3
LANGE, KURT AM-00302-12
LANGE, RAMON L. HE-07388-3
LANGE, RAMON L. HF-07434-3
LANGE, ROBERT D. AM-07705-2
LANGE, ROBERT D. CA-06807-3
LANGELAND, KAARE DF-02006-2
LANGFORD, HERBERT G. HE-09192-1
LANGHAM, MAURICE E. NB-02591-6
LANGHAM, MAURICE E. NB-04854-2
LANGNER, THOMAS S. HD-01445-1
LANGRIDGE, ROBERT HD-01267-3
LANGSJOEN, PER H. HE-08224-1
LANGSLEY, DONALD G OM-01577-2
LANGWORTHY, ORTHELLO R. MH-05316-4
LANIGAN, SISTER M. REGINA AI-06192-2
LANKFORD, CHARLES E. HD-01840-1
LANMAN, JONATHAN T. AM-07385-2
LANMAN, JONATHAN T. HD-01003-1
LANNI, FRANK AI-00857-11
LANSING, ALBERT I. HE-04066-4
LANZONI, VINCENT HF-09320-1
LA PIDUS, JULES B. EF-00185-6
LAPIERE, CHARLES M. AM-07250-3
LAPHAM, LOWELL W. NB-05684-1
LaPIDUS, JULES B. GM-10164-3
LAPIDUS, JULES B. GM-12379-1
LAPPAT, E.J. CA-06490-3
LARAGH, JOHN H. HF-01275-13
LARDY, HENRY A. AM-00531-18
LARDY, HENRY A. AM-08733-9
LAREW, H.G. EF-00299-2
LARIMER, JAMES L. NB-05423-1
LARIMORE, GRANVILLE W. FR-05559-3
LARIS, PHILIP C GM-12366-1
LARK, KARL G. AI-05711-2
LARKEY, SANFORD V. GM-010916-2
LARKS, SAUL D. HD-00558-4
LARNER, JOSEPH AM-09071-1
LARRABEE, MARTIN G. NB-00702-11
LARRAMENDI, L.M.H. NB-05408-1
LARSEN, VIRGINIA L. OM-01381-2
LARSEN, WILLIAM E. CA-03337-9
LARSH, HOWARD W. AI-01292-8
LARSON, A D AI-05583-2
LARSON, CARL L. AI-05370-3
LARSON, T.E WP-00270-5
LARSON, THURSTON E. WP-00132-9
LARSSON, KNUT HD-00344-4
LASAGNA, LOUIS MH-07498-2
LA SALLE, MARJORIE AM-08764-1
LASH, JAMES A. HD-00380-7
LASKER, NORMAN AM-04947-3
LASKER, NORMAN HF-07912-3
LASKOWSKI, DONALD E. CA-07754-2
LASKOWSKI, MICHAEL, Jr. GM-10831-6
LASKOWSKI, MICHAEL, Jr. GM-11812-2
LASKOWSKI, MICHAEL, Sr. AM-00535-17
LASSER, ELLIOTT C. AM-05414-4
LASZLO, JOHN CA-05634-5
LATA, GENE F. AM-03079-8
LATIES, GEORGE G. AM-06027-3
LATIMER, P.W.H GM-10922-3
LATTA, HARRISON AM-06074-8
LATTIMER, JOHN K. AM-05225-3
LAU, FRANCIS Y.K. HF-07795-3
LAUBER, JEAN K. NB-03770-3
LAUDERDALE, ROBERT A. WP-00467-2
LAUDGREBE, JOHN A. AM-05620-3

ALPHABETICAL LISTING OF INVESTIGATORS

LAUER, DONALD W.	HD-00896-9
LAUER, RONALD M.	HD-00250-3
LAUER, RONALD M.	HD-00897-1
LAUFFER, MAX A.	GM-10403-3
LAUGHLIN, JOHN S.	CA-03811-8
LAUGHLIN, JOHN S.	CA-04102-4
LAULER, DAVID P.	AM-00019-15
LAUPUS, WILLIAM E.	HE-08526-2
LAURENZI, GUSTAVE A.	AP-00005-4
LAURIE, VICTOR W.	GM-10448-3
LAUSON, HENRY D.	AM-01588-9
LAUTSCH, ELIZABETH	HE-09481-1
LAUTSCH, ELIZABETH V.	HE-05016-5
LAUWERYNS, JOZEF-MARIE	HE-08998-1
LAVADIA, PEDRO, Jr.	TW-00060-2
LaVELLE, ARTHUR	NB-00415-12
LAVENDER, A. RAY	HE-07969-3
LAVER, MYRON B.	HE-07788-3
LAVER, MYRON B.	HE-09340-2
LAVIE, DAVID	CA-02810-8
LAVINE, LEROY S.	DE-01662-3
LAW, FRANK E.	DH-00024-2
LAW, JOHN H.	GM-07087-6
LAW, O. THOMAS	HD-00343-3
LAWLER, SYLVIA D.	NB-04374-3
LAWLER, WILLIAM T.	OM-01811-1
LAWRENCE, CARTERET	NB-05098-2
LAWRENCE, DOUGLAS H.	HD-00897-8
LAWRENCE, H. SHERWOOD	AI-01254-9
LAWRENCE, IRVIN E., Jr.	GM-12641-1
LAWRENCE, JOHN H.	CA-01440-14
LAWRENCE, JOHN H.	HE-01882-11
LAWRENCE, JOHN H.	HE-07220-4
LAWRENCE, JOHN S.	CA-06789-3
LAWRENCE, MERLE	NB-03410-4
LAWRENCE, MERLE	NB-04562-3
LAWRENCE, NORMAN L.	AI-05310-3
LAWRENCE, NORMAN L.	AI-05847-2
Lawrence Univ.	Contr. CA-64-64
LAWRENCE, WALTER, Jr.	CA-07604-2
LAWSON, REED	HD-00944-3
LAWSON, ROBERT B.	FR-00199-1
LAWSON, WILLIAM B.	AM-05299-4
LAWTON, M. POWELL	CD-00137-1
LAWTON, M. POWELL	MH-11053-1
LAYNE, DONALD S.	HD-00087-2
LAYRISSE, MIGUEL	HF-06507-4
LAZARE, LEON	GM-11724-2
LAZAROFF, NORMAN	GM-12578-1
LAZAROW, ARNOLD	AM-03548-6
LAZAROW, ARNOLD	AM-04049-4
LAZAROW, ARNOLD	AM-06517-3
LAZAROW, ARNOLD	GM-10969-5
LAZARUS, RICHARD S.	MH-02136-8
LAZARUS, SYDNEY S.	CA-07492-1
LEACH, FRANKLIN R.	CA-05892-3
LEACH, ROBERT B.	AM-07763-2
LEADBETTER, EDWARD R.	AI-01459-6
LEADER, ROBERT W.	AI-06477-4
LEADERS, FLOYD E., Jr.	NB-04392-3
LEAF, ALEXANDER	HE-06664-4
LEAKEY, LOUIS S.B.	MH-05784-3
LEAO, ARISTIDES A P.	NB-03219-6
LEASE, JANE G.	AM-04742-5
LEATHERWOOD, JAMES M.	AI-05534-3
LEATHEM, JAMES H.	AM-00462-11
LEATHEM, JAMES H.	AM-07333-2
LEATHEM, JAMES H.	CA-05181-4
LEATON, ROBERT N.	HD-01850-1
LEAVITT, WENDELL W.	HD-01568-1
LEBARON, FRANCIS N.	NB-05923-1
LEBOVITZ, HAROLD E.	AM-01324-9
LeBRIE, STEPHEN J.	GM-12559-1
LE CAM, LUCIEN	GM-13005-1
LECHEVALIER, HUBERT A.	AI-05489-2
LECHNER, R R	AI-06196-2
LEDBETTER, J R	NB-05738-1
LEDEEN, ROBERT W.	NB-04834-2
LEDERBERG, JOSHUA	AI-05160-7
LEDERBERG, JOSHUA	HD-00045-2
LEDERBERG, JOSHUA	NB-04270-3
LEDERER, EDGAR	AI-02838-6
LEDLEY, ROBERT S.	DE-01610-4
LEDLEY, ROBERT S.	GM-10789-3
LEDLEY, ROBERT S.	GM-10797-2
LEDLEY, ROBERT S.	NB-04472-3
LEE, CHARLOTTE O.	AM-08664-2
LEE, G. FRED	WP-00371-1
LEE, GEORGE C.Y.	TW-00160-1
LEE, HO W.	AI-06103-1
LEE, JAMES B.	AM-06631-3
LEE, JULIS.	AM-05073-5
LEE, KWANG S.	HE-02875-9
LEE, KWANG, S.	HE-03751-7
LEE, MILTON O.	GM-10008-2
LEE, MILTON O.	GM-10009-1
LEE, MILTON O.	HE-08478-2
LEE, ROBERT E.	HE-07833-3
LEE, S C.	MH-10586-1
LEE, SIDNEY S.	FR-05479-3
LEE, STANLEY L.	AM-07439-3
LEE, STANLEY L.	CA-05923-4
LEE, WAYNE	GM-11128-3
LEE, WILLIAM H., Jr.	HE-08842-2
LEE, WILLIAM R.	GM-11449-2
LEE, WOO C.	HE-05264-5
LEE, YA PIN	AM-07985-3
LEEDS, SANFORD E.	HE-03180-8
LEEMAN, SUSAN E.	HD-01120-2
LEENHOUTS, KEITH J.	OM-01554-1
LEES, MARJORIE B.	NB-04419-3
LEESON, C. ROLAND	HD-01308-1
LEETE, EDWARD	CA-05336-5
LEETE, EDWARD	GM-13246-8
LEEVY, CARROLL M.	AM-04437-5
LEEVY, CARROLL M.	AM-07570-2
LEEVY, CARROLL M.	HE-04530-6
LEEVY, CARROLL M.	MH-05541-3
LEFEVRE, GEORGE, Jr.	GM-05365-8
LEFEVRE, GEORGE, Jr.	GM-06637-7
LEFEVRE, GEORGE, Jr.	GM-07667-5
LEFEVRE, PAUL G.	AM-07175-2
LEFKOWITZ, WILLIAM	DE-01167-5
LEFTON, MARK	MH-08072-2
LEGNER, E F	GM-12496-1
LEGNER, E.F.	GM-12699-1
LEHAN, PATRICK H.	HE-09471-1
LEHMAN, FREDERICK G.	AC-00236-1
LEHMAN, I. ROBERT	GM-06196-6
LEHMAN, J. STAUFFER	GM-12867-1
LEHMAN, J. STAUFFER	HE-03801-7
LEHMANN, DONALD L.	AI-05124-4
LEHMANN, HEINZ E.	MH-05202-4
LEHMANN, HEINZ E.	MH-08060-2
LEHNINGER, ALBERT L.	GM-05919-7
LEHR, DAVID	HE-00890-15
LEHR, HERNDON B.	CA-05745-5
LEHRER, GERARD M	NB-05368-2
LEHRMAN, DANIEL S.	MH-02271-8
LEIBMAN, KENNETH C.	OH-00124-3
LEIBOWITZ, HERSCHEL W.	MH-08061-2
LEIBY, PAUL D.	AI-06633-1
LEICESTER, HENRY M.	DE-00249-10
LEIGH, THOMAS F.	AI-05569-3
LEIGHTON, ALEXANDER H.	MH-08180-2
LEIGHTON, JOSEPH	CA-02800-10
LEIKIN, SANFORD L.	CA-03888-8
LEIKIN, SANFORD L.	CA-06680-3
LEIN, ALLEN	AM-02979-6
LEIN, ALLEN	AM-04428-4
LEITER, ELLIOT	HE-09329-1
LEITER, LOUIS	HE-00035-18
LELAND, HENRY	OM-01862-1
LELE, PADMAKAR P.	NB-03222-4
LELICH, BRONKO P.	CA-07358-3
LELOIR, LUIS F.	GM-03242-14
LeMAISTRE, CHARLES A.	AP-[illegible]-1
LEMAL, DAVID M.	GM-[illegible]-2
LEMANN, JACOB, Jr.	AM-08824-1
LEMBERG, RUDOLF	HE-07827-2
LEMBERGER, AUGUST P.	AM-02649-7
LEMKAU, PAUL V.	MH-07734-2
LEMKAU, PAUL V.	MH-07970-1
LEMLICH, ROBERT	WP-00161-6
LEMLICH, ROBERT	WP-00814-1
LENDE, RICHARD A.	NB-05976-1
LENDE, RICHARD A.	NB-06062-1
LENDING, MIRIAM	NB-03595-4
LENDRUM, BESSIE L.	HE-07518-2
LENFANT, CLAUDE	HF-08866-2
LENGEMANN, FREDERICK W.	AM-03184-7
LENGYEL, PETER	GM-12440-1
LENHERT, P. GALEN	AM-09085-1
LENHOFF, HOWARD M.	GM-11226-3
LENHOFF, HOWARD M.	GM-12779-1
LENNARD, HENRY L.	MH-06908-4
LENNARD, HENRY L.	MH-10475-1
LENNARZ, WILLIAM J.	AI-04948-3
LENNEBERG, ERIC H.	MH-05268-3
LENNETTE, EDWIN H.	AI-01475-8
LENNETTE, EDWIN H.	CA-07729-2
LENNETTE, EDWIN H.	CA-07730-2
LENNETTE, EDWIN H.	CA-07732-2
LENNETTE, EDWIN H.	CA-08286-1
LENNON, EDWARD J.	AM-08039-2
LENNOX, EDWIN S.	AI-06544-1
LENNOX-BUCHTHAL, MARGARET A.	NB-03943-3
LENTINI, EUGENE A.	HE-09249-1
LEON, MYRON A.	AI-02312-7
LEON, MYRON A.	AI-03104-6
LEONARD, ARNOLD S.	AM-06443-3
LEONARD, EDWARD F.	HE-06831-4
LEONARD, JAMES J.	HE-08475-3
LEONARD, L. LOUISE	AM-09157-1
LEONARD, NELSON J.	GM-05829-7
LEONARD, SAMUEL L.	AM-04965-5
LEONARDS, JACK R.	AM-08294-2
LEONE, CHARLES A.	RH-00061-7
LEONE, LOUIS A.	CA-08025-1
LEONHARDT, KURT O.	HF-08689-2
LEONORA, JOHN	AM-05274-3
LEPESCHKIN, EUGENE	HE-01486-12
LEPKOVSKY, SAMUEL	AM-01804-8
LEPKOVSKY, SAMUEL	AM-05645-4
LEPLEY, ARTHUR R.	GM-09136-4
LEPOW, IRWIN H	AI-01255-9
LEPPER, MARK H.	AP-00376-1
LEPPER, MARK H.	CC-00032-4
LEPPER, MARK H	CC-00033-4
LeQUIRE, VIRGIL S.	HF-01570-12
LERMAN, LEONARD S.	GM-08894-4
LERMAN, SIDNEY	NB-03081-5
LERNER, A. MARTIN	AI-05721-2
LERNER, AARON B.	CA-04679-6
LERNER, MICHAEL I.	GM-08942-4
LEROY, FLIF P	HF-06557-3
LES, EDWIN P.	GM-10236-3
LESKOWITZ, SIDNEY	AI-01289-9
LESLIE, JAMES	GM-12059-1
LESSER, GERSON T.	HD-00639-2
LESSLER, MILTON A.	AM-09326-1
LESSNER, HOWARD E.	CA-05641-5
LESTER, GABRIEL	CA-06073-4
LESTER, ROBERT L.	GM-07627-5
LESTER, WILLIAM	AI-06578-1
LETSINGER, ROBERT L.	GM-10265-3
LEUNISSEN-PIATNEK, DOROTHY A.	HE-08377-2
LEV, MAURICE	HF-07605-3
LEVAN, ALBERT J	CA-06415-3
LEVEDAHL, BLAINE H.	AM-06835-3
LEVENBERG, BRUCE	GM-10359-3
LEVENE, RALPH Z.	CD-00020-5
LEVENE, RALPH Z.	NB-04229-3
LEVENE, RALPH Z.	NB-04230-3
LEVENSON, STANLEY M.	AM-05664-4
LEVENSTEIN, SIDNEY	MH-10191-1
LEVENTHAL, HOWARD	CH-00077-3
LEVER, WALTER F.	AM-04486-6
LEVER, WALTER F.	GM-10299-3
LEVEY, HAROLD A.	AM-08269-2
LEVEY, MARTIN	GM-12673-1
LEVI, HERBERT W.	AI-01944-8
LEVI-MONTALCINI, RITA	NB-01602-8
LEVI-MONTALCINI, RITA	NB-03777-4
LEVIN, ALFRED P.	GM-11406-2
LEVIN, EPHRAIM Y.	NB-05367-2
LEVIN, HARRY	MH-07226-3
LEVIN, WILLIAM C.	AM-05874-4
LEVIN, WILLIAM C.	CA-03096-8
LEVINE, ALVIN S.	CA-04692-7
LEVINE, BENJAMIN S.	AP-00176-9
LEVINE, BENJAMIN S.	WP-00305-6
LEVINE, HERBERT J.	HE-07139-4
LEVINE, LAURENCE	GM-11549-2
LEVINE, LAWRENCE	AI-01940-8
LEVINE, LEO	AI-04195-4
LEVINE, LEONARD	NB-03663-3
LEVINE, MARVIN	MH-08485-2
LEVINE, NORMAN D.	AI-06197-2
LEVINE, RACHMIEL	AM-05576-4
LEVINE, ROBERT A.	MH-04865-3
LEVINE, ROBERT J.	GM-13016-1
LEVINE, ROBERT P	GM-12336-12
LEVINE, RUTH R.	NB-01966-7
LEVINE, SAMUEL G.	AM-09279-1
LEVINE, SEYMOUR	MH-07435-3
LEVINE, SOL	CD-00086-1
LEVINE, SOL	HE-09226-1
LEVINE, SOL	NU-00128-1
LEVINE, WALTER G.	HE-06450-4
LEVINS, RICHARD	GM-11879-2
LEVINSKY, NORMAN G.	HF-06795-4
LEVINSKY, NORMAN G.	HE-09584-1
LEVINSON, DANIEL J.	MH-11383-1
LEVINSON, GILBERT E.	HE-08581-2

LEVINSON, ZVI H. GM-10896-3
LEVINTHAL, CYRUS AI-02028-9
LEVITCH, MARK E. GM-09869-3
LEVITT, JOHN I HE-08775-2
LEVITT, MELVIN NB-05234-1
LEVOWITZ, BERNARD S. HE-07712-3
LEVY, ALLAN H. AI-05249-3
LEVY, BARNET M. DE-01019-6
LEVY, BARNET M. DE-01699-3
LEVY, BARNET M. DE-02232-1
LEVY, BERNARD HE-09129-1
LEVY, EDWIN Z. MH-06877-3
LEVY, GERHARD AM-08753-1
LEVY, H. RICHARD AM-07720-2
LEVY, HARVEY M. GM-06276-7
LEVY, HOWARD A. AM-05034-3
LEVY, JEROME MH-09223-1
LEVY, JEROME OM-00621-4
LEVY, JEROME F. AM-08102-2
LEVY, JOSEPH V. HE-09080-1
LEVY, LEON H. MH-11081-1
LEVY, LESTER M. HE-08353-2
LEVY, MATTHEW N HE-05460-4
LEVY, MATTHEW N. HE-07403-3
LEVY, MATTHEW N. HE-07724-3
LEVY, MILTON DE-01960-2
LEVY, MILTON GM-04902-9
LEVY, RICHARD P. AM-02867-5
LEVY, RICHARD P HM-00393-1
LEVY, ROBERT I. AM-03293-6
LEVY, ROBERT S. HE-07907-3
LEVY, SHELDON L AC-00106-3
LEWALLEN, LAWRENCE L. AI-02875-6
LEWERT, ROBERT M. AI-00884-11
LEWIN, ISAAC CA-05847-4
LEWIN, ISAAC CA-06528-4
LEWIN, LAWRENCE M. AM-08393-2
LEWIN, RALPH A. AI-03481-5
LEWIN, RALPH A. GM-10603-2
LEWIS, BENJAMIN M. HE-02379-9
LEWIS, CHARLES E. NU-00145-1
LEWIS, DONALD J. MH-07129-3
LEWIS, F. BRUCE AI-06221-2
LEWIS, F. JOHN GM-09350-3
LEWIS, GEORGE C., Jr. CA-07353-2
LEWIS, GEORGE T. HD-01189-3
LEWIS, HARVYE HE-06857-3
LEWIS, HYLAN OM-00278-5
LEWIS, JESSICA H. HE-02254-10
LEWIS, JESSICA H. HE-03036-8
LEWIS, ROBERT E. AI-05512-2
LEWIS, ROSCOE W. AM-05358-3
LEWISON, EDWARD F. CA-03878-8
LEWIT, DAVID W. MH-10735-1
LEYMASTER, GLEN R. FR-05418-4
LEZER, LEON R. FR-05569-1
LHOTKA, JOHN F., Jr. HE-01907-11
LI, C.H. AM-06097-11
LI, C. H. GM-02907-14
LI, NORMAN C. GM-10539-3
LI, WEN-HSIUNG WP-00575-2
LI, YU-TEH CA-03081-8
LIANG, DANIEL S. GM-08763-4
LIBERSON, W.T. MH-06210-3
LIBET, BENJAMIN NB-00884-9
LIBET, BENJAMIN NB-05061-2
LICHTENSTEIN, E. PAUL FF-00168-6
LICHTMAN, HERBERT C. HE-07746-3
LICHTON, IRA J. HE-07733-3
LICHTWARDT, ROBERT W. CA-05783-4
LIDDLE, GORDON OM-01428-3
LIDDLE, GORDON P. OM-00633-5
LIDDLE, GRANT W. AM-05318-4
LIDDLE, GRANT W AM-08838-1
LIDZ, THEODORE MH-00728-12
LIEB, MARGARET AI-05367-3
LIEBERT, ANNABEL CA-07914-1
LIEBELT, ROBERT A. AM-01230-9
LIEBELT, ROBERT A. CA-04517-6
LIEBELT, ROBERT A. CA-06240-4
LIEBERMAN, IRVING CA-04663-4
LIEBERMAN, IRVING CA-07876-2
LIEBERMAN, LEONARD OM-01804-1
LIEBERMAN, MORTON A. HD-00364-3
LIEBERMAN, SEYMOUR AM-00110-14
LIEBERSTEIN, H. MELVIN HE-10034-1
LIEBHABER, HARVEY AI-05148-3
LIEBMAN, FREDERICK M. DE-01044-6
LIEBMAN, JEROME HF-08286-2
LIEBMAN, PAUL A. NB-04935-2
LIEBOW, AVERILL A. HE-07277-4
LIEDKE, KATHE B. GM-10001-3

LIENER, IRVIN E. GM-04614-9
LIENER, IRVIN E. GM-12837-1
LIFSHITZ, KENNETH NB-05538-1
LIFSON, NATHAN AM-06700-3
LIGGETT, JAMES A WP-00605-2
LIGHT, ALBERT AM-09277-1
LIGHT, ROBLEY J. AM-07536-3
LIGHT, ROBLEY J. AM-08791-1
LIJINSKY, WILLIAM CA-04249-7
LIJINSKY, WILLIAM CA-05170-6
LIJINSKY, WILLIAM CA-07269-2
LIKAR, LYDIA J. HE-09691-1
LIKOFF, WILLIAM HF-06368-4
LILIENFELD, ABRAHAM M. CD-00004-6
LILIENFELD, ABRAHAM M. CA-07441-2
LILIENFIELD, LAWRENCE S. HF-02987-9
LILLEHEI, C. WALTON HE-00830-13
LILLEHEI, C. WALTON NB-03735-3
LILLEHEI, JAMES P HF-08560-2
LILLEHEI, RICHARD C. AM-03361-6
LILLEHEI, RICHARD C. HF-02941-9
LILLESKOV, ROY K. OM-01923-1
LILLIE, RALPH D. CA-04816-6
LILLY, JOHN C. NB-03097-4
LIM, SOO D. AI-05565-2
LIMBECK, GEORGE A HD-01521-1
LIN, EDMUND C.C. GM-11983-2
LIN, HSI H. CA-06492-4
LIN, SPING NB-05229-1
LIN, TA-JUNG HD-00559-4
LINCICOME, DAVID R. AI-03409-5
LINCK, ALBERT J. FF-00193-4
LINCOFF, HARVEY A. NB-05547-1
LIND, JOHN HD-00182-2
LINDBERG, DONALD A.B. HM-00374-2
LINDBERG, GEORGE D AI-04700-4
LINDBERG, THEODORE F. OM-01761-1
LINDE, LEONARD M. HD-00658-6
LINDE, LEONARD M. HF-07720-1
LINDEGREN, CARL C. GM-12266-6
LINDELL, SVAN ERIC AI-03179-6
LINDEMANN, ERICH MH-03471-5
LINDEMANN, ERICH MH-09137-9
LINDENBERG, RICHARD NB-04483-3
LINDENMAYER, ARISTID GM-12547-1
LINDER, DAVID HD-01487-1
LINDNER, ANTON AI-04038-5
LINDNER, ANTON AM-04929-4
LINDNER, ARTHUR E. AM-07760-2
LINDORFER, ROBERT K. AI-01597-8
LINDQVIST, INGVAR GM-11307-3
LINDSAY, JOHN R. NB-00269-13
LINDSAY, JOHN R. NB-03358-4
LINDSAY, JOHN R. NB-03768-4
LINDSLEY, DAVID F. NB-05254-2
LINDSLEY, DONALD B. NB-02743-4
LINDZEY, GARDNER MH-11030-1
LING, GILBERT N. GM-11422-2
LINGAFELTER, EDWARD C. GM-10842-7
LINGL, FREDERICK A. OM-01706-1
LINGREL, JERRY B. GM-10999-3
LINK, ROGER P. HF-07165-3
LINKER, ALFRED HF-06080-5
LINKSWILER, HELLEN AM-06675-3
LINMAN, JAMES W. AM-01991-7
LINMAN, JAMES W. CA-08043-1
LINNANE, ANTHONY W. GM-10496-3
LINSCOTT, WILLIAM D. AI-06464-1
LINTON, JOE R. GM-12491-1
LION, KURT S. GM-12084-2
LIONETTI, FABIAN J. AM-08099-2
LIPETZ, JACQUES CA-04955-3
LIPETZ, LEO E. NB-01408-8
LIPKIN, DAVID CA-03870-8
LIPNER, HARRY HD-00814-1
LIPPARD, VERNON W. FR-05358-4
LIPPINCOTT, ELLIS R. DE-01466-4
LIPPINCOTT, JAMES A. CA-05387-5
LIPPITT, RONALD MH-09109-9
LIPPMAN, HARVEY N. AM-07686-2
LIPPMANN, HEINZ I. HE-07081-3
LIPPOLD, PAUL C. FF-00171-6
LIPPSCHUTZ, EUGENE J. HE-05882-4
LIPSCOMB, WILLIAM N. GM-04920-6
LIPSITT, LEWIS P. NB-04268-3
LIPSKY, JOSEPH A. HE-08078-3
LIPSKY, SEYMOUR R. HE-03558-8
LIPTON, MORRIS A. AM-05062-4
LIPTON, MURRAY M. HD-00300-4
LIPTON, MURRAY M. NB-00982-9
LIS, ADAM W. AM-06996-3
LISCHNER, HAROLD W. AM-09112-1

LISKA, BERNARD J. FF-00049-4
LISKER, RUBEN HD-00862-2
LISS, LEOPOLD NB-03988-3
LISS, MAURICE AM-05931-4
LISSNER, HERBERT R AC-00054-7
LISSNER, HERBERT R. DE-01416-5
LISTER, JOHN W. HE-09156-1
LISTER, JULIUS FR-00237-1
LISTER, JULIUS HD-00410-2
LISTER, JULIUS HD-00837-2
LISTER, JULIUS HD-01084-1
LISTON, JOHN FF-00558-2
LIT, ALFRED MH-06621-3
LITSINGER, EDWARD A. OM-01688-1
LITT, MORTIMER AI-04716-3
LITTLE, A. BRIAN HD-00390-6
LITTLE, CLARENCE C. CA-06483-3
LITTLE, DOLORES E. NU-00094-2
LITTLE, J. MAXWELL AM-07445-2
LITTLE, J. MAXWELL HF-06920-4
LITTLE, J. RUSSELL, Jr. AI-06354-1
LITTLE, JAMES M. AM-05898-3
LITTLE, JAMES M. HF-07667-3
LITTLE, KENNETH B. MH-08142-3
LITTLE, KENNETH B. MH-11152-1
LITTLE, MARGUERITE F. DF-02011-2
LITTLE, WILLIAM A. HD-01128-1
LITTLEFIELD, JOHN W. CA-04670-6
LITTMAN, ARMAND AM-07962-2
LITTMAN, MAXWELL L. CA-08116-1
LITWACK, GERALD AM-08350-2
LITWAK, ROBERT S. HF-07708-4
LIU, CHI K. HE-08336-2
LIU, CHIEN AI-02514-7
LIU, CHIEN AI-05713-3
LIU, CHIEN NB-05452-1
LIU, CHUI F. GM-10732-3
LIU, FRANK T Y. DE-01621-4
LIU, HSI YEN AM-08494-1
LIU, PINGHUI V AI-05283-2
LIU, Y.P AI-06594-1
LIVE, ISRAEL CC-00064-5
LIVINGSTON, ROBERT S. GM-11341-6
LLOYD, CHARLES W. AM-08184-2
LLOYD, CHARLES W. HD-00408-2
LLOYD, DAVID P.C. NB-02816-5
LLOYD, JAMES A HD-00096-2
LLOYD-JONES, ESTHER OM-01903-1
LLOYD, KENNETH F MH-08461-2
LOACH, PAUL A. GM-11741-1
LOBECK, CHARLES C. AM-06365-3
LOBO, LUIZ CARLOS G AM-08042-1
LOCATCHER-KHORAZO, DEBORAH AI-02505-7
LOCK, FRANK R. CA-07610-2
LOCK, FRANK R. HE-03941-6
LOCKARD, ISABEL NB-03075-5
LOCKARD, ROBERT B. HD-00942-3
LOCKART, ROYCE Z., Jr. AI-03538-5
LOCKE, MICHAEL GM-09960-4
LOCKE, SIMEON NB-04131-3
LOCKHART, RUSSELL A. MH-11723-1
LOCKHART, WILLIAM R. AI-05219-3
LOCKHEAD, GREGORY R. MH-11769-1
LOCKWOOD, WILLIAM R. HE-05827-5
LODWICK, GWILYM S. CA-06263-4
LOEB, MARTIN B. OM-01182-3
LOEB, VIRGIL, Jr. CA-03376-9
LOEHR, RAYMOND C. WP-00341-3
LOESS, HENRY B. MH-08537-2
LOEVINGER, JANE MH-05115-5
LOEWENFELD, IRENE E. NB-00253-13
LOEWENSTEIN, REGINA CH-00128-1
LOEWENSTEIN, WERNER R. GM-12771-1
LOEWENSTEIN, WERNER R NB-01466-8
LOEWIS, FRANK A GM-12492-1
LOEWY, ARIEL G. HF-04185-6
LOFLAND, HUGH B., Jr. HF-04171-7
LOFLAND, HUGH B., Jr. HF-09357-1
LOFSTROM, JAMES E CA-07206-2
LOFSTROM, JAMES E CA-07870-1
LOFTFIELD, ROBERT B. CA-08000-1
LOFTIN, HORACE AI-06078-2
LOGAN, FRANK A MH-10316-2
LOGAN, MILAN A AM-05867-4
LOH, PHILIP C AI-04685-4
LOHMAN, JOSEPH D MH-07477-1
LOHMAN, JOSEPH D OM-01341-2
LOHMANN, WOLFGANG H RH-00197-2
LOJKIN, MARY E HD-01216-2
LOKEN, MERLE K. CA-03332-7
LOKEN, MERLE K CA-06001-4
LOMBARDI, BENITO AM-04394-1

ALPHABETICAL LISTING OF INVESTIGATORS

LOMBARDO, CARLOS R. HE-09137-1
LONDON, IRA T MH-11021-1
LONDON, IRVING M. HF-02803-9
LONDON, MORRIS CA-03990-7
LONDON, PERRY MH-08598-2
LONG, CHARLES NB-02795-5
LONG, CHARLES NB-03419-3
LONG, ERNEST C. FR-00111-2
LONG, EUGENE R., Jr. HD-00333-6
LONG, J.P. NB-01396-8
LONG, JOHN P. NB-04431-3
LONG, RONALD AP-00323-1
LONG, SAMUEL S. HM-00255-2
LONGENECKER, HERBERT E. FR-00164-4
LONGENECKER, J.B. AM-08890-1
LONGLEY, JAMES B. AM-06867-3
LONGMIRE, WILLIAM P., Jr. CA-06105-3
LONGO, NICHOLAS MH-10846-1
LONGOBARDO, GUY S. HF-09171-1
LONGONE, DANIEL T. HD-01807-1
LONGREE, KARLA FF-00245-4
LOOFBOURROW, G N MH-08908-2
LOOKER, JAMES H. AI-01703-8
LOOKER, JAMES H. CA-04750-6
LOOMIS, RICHARD B AI-03407-5
LOOMIS, W D GM-08818-4
LOONEY, WILLIAM B. GM-10754-2
LOOSLI, CLAYTON G. AI-03293-2
LOPER, JOHN C. GM-11079-3
LORAND, LASZLO AM-08982-1
LORAND, LASZLO HF-02212-10
LORBER, MORTIMER FS-00061-2
LORBER, STANLEY H. AM-08580-1
LORD, RICHARD C. GM-11292-1
LORDAHL, DANIEL S. MH-10277-1
LORENTE de No, RAFAEL NB-02650-5
LORETAN, JOSEPH G. OM-01062-1
LORINCZ, ALBERT B. HD-01180-3
LORINCZ, ALLAN L. AM-07666-2
LORING, HUBERT S AI-05566-3
LORR, MAURICE MH-11312-1
LOSADA, MANUEL AM-06848-3
LOSPALLUTO, JOSEPH J. AI-05479-2
LOTSPEICH, FREDERICK J GM-09342-3
LOTSPEICH, FREDERICK J. HE-04410-4
LOTSPEICH, WILLIAM D. AM-03601-6
LOTT, PETER F. GM-12830-1
LOUD, ALDEN V. CA-04307-7
LOUDON, ROBERT G. AI-05027-3
LOUDON, ROBERT G. AI-06012-2
LOUIS, JOHN CA-04985-6
LOUIS, LAWRENCE H. AM-06665-3
Louisiana State Dept. Hospitals Contr. MH-65-86
Louisiana State Dept. Hospitals Contr. MH-65-584
Louisiana State Univ. Contr. CA-65-573
LOURENCO, RUY V. HF-08902-2
LOURIA, DONALD B. AI-05281-3
LOURIE, IRVIN M. OH-00159-2
LOURIE, REGINALD MH-01939-1
LOURIE, REGINALD S. MH-10421-1
LOVE, DAVID S. HD-01303-1
LOVE, ROBERT CA-05402-6
LOVE, SAMUEL H. AI-04555-4
LOVE, WARNER E. AM-02528-7
LOVE, WILLIAM D HF-07628-4
LOVEKIN, WILLIAM S HE-09460-1
LOVELL, HAROLD L. WP-00424-3
LOVELL, WILLIAM V. NB-04633-3
LOVELOCK, JAMES E. AP-00308-2
LOVETT, DUANE W. FR-05313-4
LOVETT, JAMES S AI-04783-3
LOW, BARBARA W. AM-01320-9
LOW, DONALD G. AI-03877-5
LOW, FRANK N HE-09041-2
LOW, MANFRED J D AP-00211-3
LOW, MANFRED J.D. ES-00088-1
LOWDIN, PER-OLOV CA-06850-3
LOWE, HARRY J. HE-08837-1
LOWE, HARRY J NB-05542-1
LOWELL, EDGAR L. NB-03516-4
LOWELL, FRANCIS C. AI-02638-7
LOWELL, FRANCIS C. AI-02639-7
LOWENFELS, ALBERT B. HE-05114-5
LOWENSTEIN, JEROLD M. AM-04224-6
LOWENSTEIN, JEROLD M. HF-07726-3
LOWENSTEIN, JOHN M GM-07261-5
LOWENSTEIN, LEAH M. AM-08921-1
LOWENSTEIN, LEAH M. AM-08822-1
LOWENSTEIN, LOUIS AM-05200-4
LOWEY, SUSAN AM-04762-5
LOWMAN, ROBERT M HF-04834-6
LOWN, BERNARD HE-07776-3
LOWNEY, EDMUND D. AI-06449-1
LOWNEY, EDMUND D. OH-00224-1
LOWREY, GEORGE H HD-01054-1
LOWRY, OLIVER H. NB-00434-12
LOWRY, OLIVER H. NB-01352-9
LOWY, BERTRAM A. AM-02655-7
LOWY, KARL NB-03059-4
LOYKE, HUBERT F. HF-04107-7
LUBACH, JOHN E. OM-00898-3
LUBAR, JOEL F. MH-10787-1
LUBCHENCO, LULA O. HF-06884-3
LUBIN, MARTIN GM-06712-6
LUBIN, MARTIN GM-13236-1
LUBORSKY, LESTER MH-03654-6
LUBOW, ROBERT E. MH-08731-2
LUBS, HERBERT A., Jr. GM-11078-2
LUCAS, RUSSELL V., Jr. HF-06456-4
LUCCHESI, BENEDICT R. HE-05806-5
LUCEY, JEROME F. HD-00396-4
LUCEY, JEROME F. HD-01151-1
LUCHSINGER, PETER C. HF-03114-8
LUCKEY, E HUGH HF-08736-2
LUCKEY, THOMAS D. GM-11398-3
LUDEWIG, STEPHAN AM-06784-2
LUDLAM, WILLIAM M. NB-04806-2
LUDLUM, DAVID B GM-12416-1
LUDVIGH, ELEK J., II NB-03934-4
LUDVIGSON, H WAYNE MH-11029-1
LUDWIG, ARNOLD M. MH-11275-1
LUDWIG, GEORGE D. AM-02872-6
LUESSENHOP, ALFRED J. HE-05414-4
LUETSCHER, JOHN A AM-03062-6
LUFT, JOHN H NB-00401-12
LUGINBUHL, ROY E. AI-03217-6
LUGINBUHL, WILLIAM H. HD-01318-1
LUH, BOR S. EF-00157-7
LUHBY, A LEONARD AM-01778-8
LUHBY, A. LEONARD HD-01162-8
LUISADA, ALDO A. HE-09350-1
LUKAS, DANIEL S. HF-07315-3
LUKAS, DANIEL S. HF-08950-2
LUKEMEYER, JACK W. HD-01609-1
LUKENS, LEWIS N. AM-04287-5
LUKTON, AARON AM-06063-4
LUM, BERT K B AM-07712-2
LUM, BERT K.B. HE-07554-4
LUMB, RALPH F. HE-08107-2
LUMB, WILLIAM V NB-05544-1
LUMRY, RUFUS W. AM-05853-4
LUND, CURTIS J. HD-00274-3
LUND, J. BENJAMIN OM-02074-1
LUND, MELVIN R. DE-02031-1
LUND, PAUL K. AM-02340-6
LUND, PAUL K GM-10583-6
LUND, S. TORSTEN MH-10916-1
LUNDBERG, WALTER O. AM-06674-3
LUNDBERG, WALTER O HF-02772-9
LUNDBERG, WALTER O. HE-04386-6
LUNDBERG, WALTER O. HE-04601-7
LUNDBERG, WALTER O. HF-08214-2
LUNDGREN, DONALD G. WP-00548-3
LUNDQVIST, C. DE-01447-2
LUNENFELD, BRUNO AM-04596-5
LUNGER, PHILIP D. CA-07048-3
LUNIN, MARTIN DE-02192-1
LUPARELLO, THOMAS J. MH-07806-3
LUPTON, CHARLES H., Jr. HE-01725-11
LURIA, SALVADOR E. AI-03038-6
LURIE, ABRAHAM OM-01018-3
LURIE, ABRAHAM A. HE-07996-3
LURIE, HARRY I GM-08165-5
LURIE, PAUL R HF-04998-5
LUSE, SARAH A CA-05345-5
LUSE, SARAH A. NB-00425-12
LUSE, SARAH A. NB-01539-8
LUSTMAN, SEYMOUR I MH-06994-4
LUTWAK, LEO AM-07451-2
LUTZ, KENNETH R. DE-01921-2
LUYET, BASILE J. GM-10846-7
LUYET, BASILE J. HE-06474-4
LUYKX, PETER HD-01829-1
LWOWSKI, WALTER GM-08762-4
LWOWSKI, WALTER GM-10939-3
LYCKE, ERIK N. AI-05074-3
LYKOS, PETER G GM-08068-5
LYKOS, PETER G. GM-10826-3
LYLE, GLORIA G GM-07239-5
LYLE, ROBERT E CA-04143-7
LYLE, ROBERT F. GM-12177-2
LYLE, ROBERT E HE-01713-11
LYMAN, CHARLES P. GM-05197-8
LYMAN, CHARLES P GM-05611-7
LYMAN, CHARLES P. GM-11816-2
LYMAN, HARVARD GM-09834-2
LYMAN, RICHARD L AM-03046-7
LYMAN, RICHARD L. HF-06480-4
LYNCH, FRANCIS W AM-04101-6
LYNCH, J. EDWARD CA-07694-2
LYNCH, THERESA I. NU-00103-2
LYNCH, PETER R. HE-08886-2
Lynchburg T. Sch. Hosp. Contr. MH-62-475
LYND, J.O. ES-00076-1
LYNGSOE, JENS TW-00175-1
LYNN, RAYMOND J. HE-07004-4
LYNN, WILLIAM G. AM-02921-7
LYNN, WILLIAM S HE-08550-2
LYNN, WILLIAM S., Jr. GM-04758-9
LYON, DAVID O MH-11019-1
LYON, IRVING AM-08359-1
LYON, JOHN B., Jr. AM-03524-6
LYONS, CHAMP HF-04943-6
LYONS, CHAMP HE-06353-4
LYONS, CHAMP HF-06648-3
LYONS, HAROLD AM-03749-5
LYONS, HAROLD A. NB-01594-7
LYONS, HARRY FR-05345-4
MA, PEARL P C AI-06799-1
MAAG, D D EF-00187-5
MAALOE, OLE AI-04914-3
MAAS, WERNER K GM-06048-7
MABRY, C CHARLTON AM-08059-2
MABRY, C. CHARLTON HD-00040-2
MacCANON, DONALD M. HF-07649-3
MACCHI, I ALDEN AM-06873-3
MACCOBY, ELEANOR E HD-01092-1
MacCOLLOM, GEORGE B. ES-00111-1
MacCREADY, PAUL B., Jr. AP-00359-1
MacCREADY, ROBERT A. CC-00021-5
MacDONALD, DONALD L GM-09756-3
MacDONALD, PAUL C AM-06912-3
MacDONALD, RALPHYNE OM-01650-1
MacDONALD, RICHARD A CA-05312-5
MacDONALD, RICHARD A. HF-03647-7
MacDONALD, RUSSELL F AI-05024-2
MACEY, ROBERT I. GM-10714-3
MACEY, ROBERT I. HE-09506-1
MACFARLANE, JEAN W. MH-06238-3
MacHAFFIE, REGINALD A AM-07223-3
MACHNE, XENIA NB-04391-3
MACIEL, GARY E. GM-11439-2
MACINTYRE, M. NEIL HD-00549-4
MACINTYRE, WALTER M. CA-07778-2
MacINTYRE, WILLIAM J. AM-02848-6
MACK, ROBERT E. AM-07000-2
MACKANESS, G.B. AI-00036-19
MACKAY, IAN F S HE-07722-3
MACKAY, ROLAND P NB-05836-1
MACKENZIE, COSMO G. AM-00969-14
MACKENZIE, COSMO G AM-07162-3
MACKENZIE, JAMES W. HE-09092-1
MACKIN, JOHN G. EF-00621-1
MACKIN, JOHN G. EF-00736-1
MacKINNEY, ARCHIE A., Jr. AM-08868-1
MACKINNEY, G. EF-00170-6
MACKLER, BRUCE HF-05457-5
MacLAREN, JOHN A HD-00520-5
MACLEAN, ELIZABETH C GM-09959-4
MacLEAN, LLOYD D. GM-10438-3
MacLEOD, COLIN M. AI-03713-6
MacLEOD, COLIN M. AI-03719-6
MACLEOD, JOHN HD-00481-8
MacLEOD, ROBERT M. CA-07535-2
MacMAHON, BRIAN CA-04373-3
MacMAHON, BRIAN CA-06581-4
MacMAHON, BRIAN CA-06755-4
MACNAB, JAMES A. FF-00246-3
MacNICHOL, EDWARD F., Jr. NB-03582-3
MacQUEEN, JOHN C. NB-05489-1
MACY, JOSIAH, Jr. CA-07148-2
MACY, JOSIAH, Jr. NB-03491-4
MACY, RALPH W GM-12499-1
MADDEN, RICHARD M DE-01492-4
MADDEN, ROBERT E. CA-06700-2
MADDEN, ROBERT E. CA-07587-1
MADDEN, ROBERT E. HF-05633-4
MADDI, SALVATORE R. MH-06652-3
MADISON, BERNICE CH-00097-1
MADISON, LEONARD L AM-04216-5
MADOFF, MORTON A. AI-05413-2
MADORE, C. ELIZABETH OM-01382-2

MADOW, LEO NB-04163-3
MADSEN, JOOP J. TW-00168-1
MADSEN, KENNETH O. DE-01555-3
MADSEN, NEIL B. AM-07294-3
MAEGRAITH, B.G. AI-05390-1
MAEIR, DAVID M. AI-03223-6
MAEIR, DAVID M. CA-04529-9
MAENGWYN-DAVIES, GERTRUDE D. NB-01448-8
MAFFLY, ROY H. AM-05678-4
MAGASANIK, BORIS CA-05210-6
MAGASANIK, BORIS GM-07446-6
MAGEE, DONAL F. AM-02472-7
MAGER, JACOB AM-06123-3
MAGID, GEORGE J. AM-07383-2
MAGLADERY, JOHN W. NB-00367-15
MAGNER, GEORGE OM-00937-3
MAGNES, JONATHAN NB-05454-1
MAGOON, THOMAS M. OM-01070-3
MAGUIRE, HENRY C., Jr. OH-00145-3
MAHAFFEY, JOHN E. HE-05348-5
MAHALEY, MOSES S., Jr. CA-07401-2
MAHER, MICHAEL J. AM-06839-3
MAHESH, VIRENDRA B. AM-04429-6
MAHLER, DAVID B. DE-01938-2
MAHLER, HENRY R. GM-12228-2
MAHLER, MARGARET S. MH-08238-2
MAHLER, ROBERT HE-09457-1
MAHONEY, EARLE B. HF-02572-9
MAHONEY, JOHN P. HF-06561-4
MAHONEY, MARY K. OM-02104-1
MAHONEY, STEPHEN A. AM-09103-1
MAHOWALD, THEODORE A. GM-10460-3
MAHVI, THOMAS A. AM-07493-3
MAI, WILLIAM F. GM-12647-2
MAIBENCO, HELEN C. HD-00974-2
MAIER, NORMAN R.F. MH-02704-7
MAIM, JAMES R. HE-08163-3
MAINLAND, DONALD AM-03252-5
MAINLAND, DONALD GM-06100-6
MAISEL, HARRY NB-04765-2
MAISEL, HERBERT FR-00194-1
MAISTERRENA, JORGE A. AM-08428-1
MAIZELS, MONTAGUE HF-08817-1
MAJAJ, AMIN S. AM-05499-3
MAJCHROWICZ, EDWARD AM-08329-2
MAJNO, GUIDO AM-08253-2
MAJNO, GUIDO HF-08794-2
MAJOR, CHARLES W. AM-04707-4
MAKELA, V.E. OLAVI GM-12046-1
MAKI, AUGUST H. GM-12327-1
MAKI, LEROY R. AI-03114-6
MAKOWSKI, EDGAR L. HE-09435-1
MALAMED, SASHA GM-08900-4
MALAMOS, BASIL AM-07464-3
MALECOT, ANDRE NB-04723-2
MALEK, EMILE A. AI-02898-6
MALETTE, WILLIAM G. AM-08370-2
MALEY, FRANK CA-04406-4
MALINA, JOSEPH F., Jr. WP-00083-3
MALINDZAK, GEORGE S., Jr. HE-08663-2
MALINOWSKI, EDMUND R. GM-10616-3
MALIS, LEONARD I. NB-01413-8
MALITZ, SIDNEY MH-01665-8
MALKIEL, SAUL AI-04778-3
MALKIEL, SAUL AI-05886-1
MALKINSON, FREDERICK D. RH-00280-2
MALLAMS, JOHN T. CA-06840-3
MALLAMS, JOHN T. CA-07127-2
MALLAMS, JOHN T. CA-07385-2
MALLEY, ARTHUR AI-06274-1
MALLIN, MORTON L. HE-07353-3
MALLORY, G. KENNETH AM-08736-1
MALLORY, G. KENNETH CA-04119-7
MALLORY, G. KENNETH GM-09628-4
MALMENDIER, CLAUDE L. TW-00030-3
MALMO, ROBERT B. MH-01475-8
MALMSTROM, BO G. GM-12280-1
MALONE, CHARLES A. OM-01845-1
MALONEY, JAMES V., Jr. HF-02812-9
MALOTT, RICHARD W. MH-10743-1
MALOTT, RICHARD W. MH-10755-1
MALTZMAN, IRVING M. MH-04684-5
MALVIN, RICHARD L. AM-03885-6
MALVIN, RICHARD L. AM-08807-1
MAMMEN, EBERHARD F. HE-08309-2
MAN, EVELYN B. HD-00415-4
MANCHESTER, BENJAMIN HE-05324-5
MANCUSO, THOMAS F. CA-07588-1
MANCY, KHALIL H. WP-00566-2
MANDAHL-BARTH, GEORG AI-04752-2
MANDEL, H. GEORGE AI-04264-4
MANDEL, H. GEORGE CA-02978-9
MANDEL, IRWIN D. DE-01554-4
MANDELBAUM, ISIDORE HF-09244-1
MANDELKER, DANIEL R. EF-00596-1
MANDELKERN, LEO GM-10614-3
MANDELL, JOSEPH D. CA-05786-5
MANDELL, LEON AI-05632-2
MANDELL, LEON GM-10848-8
MANDELL, ROBERT B. NB-04810-2
MANDELSTAM, PAUL AI-05535-1
MANDELSTAM, PAUL AM-09679-1
MANDL, INES AM-00779-11
MANDL, INES AM-04975-5
MANDL, INES CA-06658-3
MANDLE, ROBERT J. AI-05946-2
MANDLER, GEORGE HD-00912-4
MANFREDI, FELICE HE-08788-2
MANGANELLI, RAYMOND M. AP-00093-8
MANGOLD, HELMUT K. GM-05817-7
MANGOLD, HELMUT K. GM-11364-2
MANGUM, VERNON OM-01716-2
MANGUM, VERNON OM-02067-1
MANIRE, GEORGE P. AI-00868-9
MANIS, JAMES AM-08906-1
MANIS, MELVIN HD-00953-2
MANKIN, HENRY J. AM-08163-2
MANLEY, HARRY A. OM-01466-2
MANLY, RICHARD S. DE-02018-2
MANN, CHARLES K. GM-10064-3
MANN, FLOYD C. HM-00188-3
MANN, GEORGE V. HF-03926-7
MANN, JAY D. GM-12664-1
MANN, JOSEPH D. GM-10474-3
MANN, STANLEY J. GM-09780-4
MANN, WILLIAM R. FR-05321-4
MANNERING, GILBERT J. GM-10913-3
MANNERING, GILBERT J. GM-10930-3
MANNERING, GILBERT J. GM-12543-1
MANNICK, JOHN A. AM-09063-2
MANNICK, JOHN A. CA-08091-2
MANNICK, JOHN A. HE-09254-1
MANNING, JAMES A. HE-08987-1
MANNING, JOHN W. NB-02645-5
MANNING, ROBERT T. NB-05320-2
MANNIX, HENRY, Jr. AM-07075-3
MANOSEVITZ, MARTIN MH-11276-1
MANSBERGER, ARLIE R., Jr. AM-05275-4
MANSKI, WLADYSLAW NB-01010-10
MANSON, LIONEL A. CA-07973-1
MANSOUR, TAG F. AI-04214-5
MANTHEI, ROLAND W. AM-06953-3
MANTSAVINOS, ROGER CA-05599-6
MANUELIDIS, ELIAS E. CA-05482-10
MANWELL, REGINALD D. AI-05182-3
MAO, PETER, T.H. CA-08112-1
MARAMOROSCH, KARL AI-04290-4
MARAMOROSCH, KARL CA-07453-2
MARBLE, ALEXANDER AM-04146-4
MARCHANT, DOUGLAS J. CA-07362-3
MARCHANT, DOUGLAS J. HD-00309-3
MARCHELLO, JOSEPH M. WP-00323-4
MARCHESI, VINCENT T. HE-08293-2
MARCIAL, VICTOR A. CA-06083-3
MARCUS, AARON J. HE-09070-1
MARCUS, DONALD M. AI-05336-2
MARCUS, FRANK I. HE-04713-5
MARCUS, FRANK I. HE-08919-1
MARCUS, PHILIP I. AI-03619-5
MARCUS, STANLEY CA-07302-2
MAREN, THOMAS H. NB-01297-9
MARES-GUIA, MARCOS L. TW-00127-1
MARFEY, S. PETER GM-08520-4
MARGEN, SHELDON AM-07665-2
MARGEN, SHELDON AM-07723-2
MARGEN, SHELDON AM-08266-3
MARGERUM, DALE W. GM-12152-1
MARGOLIN, PAUL, Sr. GM-07178-6
MARGOLIS, FREDERICK J. DE-01353-5
MARGOLIS, GEORGE NB-05140-1
MARGOLIS, GEORGE NB-05545-1
MARGOLIS, HERBERT I. DE-01867-2
MARGOLIS, SIMEON HF-09596-1
MARIANI, EUGENE L. OM-02331-1
MARIENFELD, CARL J. ES-00082-1
Marine Biol. Lab. Contr. AM-65-597
Marine Biol. Lab. Contr. NB-65-597
Marine Biol. Lab. Contr. MH-65-597
MARINE, WILLIAM M. AI-06286-1
MARINETTI, GUIDO V. HE-02063-11
MARION, G.B. AI-02864-6
MARK, HENRY J. MH-07622-2
MARKAKIS, PERICLES GM-09025-4
MARKHAM, ROY AI-03400-6
MARKLAND, ALAN C. HE-09503-1
MARKOVETZ, ALLEN J. AI-06707-1
MARKOWITZ, ABRAHAM S. AM-04459-5
MARKOWITZ, ABRAHAM S. AM-06856-3
MARKOWITZ, HAROLD AM-07497-3
MARKOWITZ, MILTON HF-05555-5
MARKOWITZ, MILTON HF-07533-3
MARKS, ASHER AI-05218-3
MARKS, BERNARD H. AM-05110-5
MARKS, BERNARD H. HE-07051-4
MARKS, JAMES F. HD-00313-2
MARKS, JAMES F. HD-01214-3
MARKS, PAUL A. GM-07368-6
MARKS, PHILIP A. MH-08533-2
MARKS, RENEE U. HE-08206-2
MARLER, PETER R. MH-06199-3
MARMORSTON, JESSIE HE-04600-6
MARMORSTON, JESSIE HE-08798-1
MARMUR, JULIUS GM-11946-3
Marquette Univ. Contr. CA-64-52
MARQUIS, ROBERT E. AM-08990-1
MARSH, DONALD AM-06864-3
MARSH, JULIAN B. HF-05285-5
MARSH, ROBERT M. MH-11000-1
MARSH, WALTON H. HE-04449-6
MARSHAK, ALFRED CA-08099-2
MARSHAK, ROBERT R. CA-06352-4
MARSHAK, ROBERT R. FR-00182-2
MARSHALL, GEORGE R. MH-10510-1
MARSHALL, HELEN E. NU-00107-2
MARSHALL, JAMES A. AI-04965-3
MARSHALL, JEAN M. HF-05702-5
MARSHALL, JOHN M., Jr. CA-01957-13
MARSHALL, ROBERT J. HF-07758-3
MARSHALL, WILLIAM E. GM-12693-1
MARSLAND, DOUGLAS A. CA-00807-17
MARSTON, JUDITH H. AI-04705-4
MARSTON, JUDITH H. AI-06183-2
MARSTON, ROBERT W. FR-00091-2
MARTELL, ARTHUR E. AM-05217-5
MARTELL, ARTHUR E. GM-10834-5
MARTELL, ARTHUR E. GM-11621-2
MARTELL, ARTHUR E. GM-12894-1
MARTELL, ARTHUR E. WP-00744-1
MARTIN, A. ROBERT NB-05879-1
MARTIN, ARTHUR M., Jr. HF-09566-1
MARTIN, ARTHUR W. HF-02557-9
MARTIN, ARTHUR W. NB-05294-2
MARTIN, CAROLYN HF-07147-3
MARTIN, CARROLL J. HF-01892-11
MARTIN, CHARLES F. NB-05032-1
MARTIN, CHARLES H. OM-01709-2
MARTIN, CHARLES J. GM-10902-4
MARTIN, CHRISTOPHER M. CA-05893-3
MARTIN, DANIEL S. CA-04497-7
MARTIN, DEAN E. GM-12604-1
MARTIN, DONALD B. AM-06852-3
MARTIN, DONALD W. OM-01712-2
MARTIN, GEORGE M. AM-04824-5
MARTIN, GUSTAV J. MH-11415-1
MARTIN, HELEN E. AM-08247-2
MARTIN, J. WILLIAM HM-00290-1
MARTIN, JAMES C. GM-12296-1
MARTIN, JAMES G. MH-10400-1
MARTIN, LEONARD W. CH-00187-1
MARTIN, LEWIS C. OM-01614-2
MARTIN, MALCOLM M. AM-04221-5
MARTIN, R. BRUCE GM-12844-1
MARTIN, RANDALL B. MH-08650-1
MARTIN, ROBERT P. AM-03124-5
MARTIN, SAMUEL P. AI-01463-9
MARTIN, TRUMAN G. AM-05551-4
MARTIN, WALTER P. FR-05551-3
MARTIN, WILLIAM R. AI-02850-6
MARTIN, WILLIAM R. CA-07525-2
MARTINEZ, CARLOS CA-03511-8
MARTINEZ, DANIEL M. NB-01647-8
MARTOF, BERNARD S. GM-12189-2
MARULLO, NICASIO P. GM-09895-3
MARUYAMA, YOSH CA-08163-1
MARVELL, ELLIOT N. AM-07771-1
MARVELL, ELLIOT N. WP-00079-8
MARVIN, DONALD A. AI-06524-1
MARX, MELVIN H. HD-00895-12
MARX, WALTER HF-01596-12
Maryland Dept. Mental Hygiene Contr. MH-65-64

ALPHABETICAL LISTING OF INVESTIGATORS

Maryland State Dept. Mental Hlth.	Contr. MH-65-618
MASLEN, EDWARD N.	AM-06519-3
MASON, D.D.	FR-00011-3
MASON, H.L.	AM-08402-6
MASON, HOWARD S.	AM-07180-3
MASON, MERLE	AM-02294-8
Mason Research Inst.	Contr. CA-63-1146
Mason Research Inst.	Contr. CA-65-6
Mason Research Inst.	Contr. CA-65-51
Mason Research Inst.	Contr. CA-65-1032
MASON, STANLEY G.	HE-05911-5
MASORO, EDWARD J.	AM-09458-1
MASOUREDIS, S.P.	HE-05071-7
Massachusetts General Hosp.	Contr. CA-65-1034
Massachusetts General Hosp.	Contr. GM-65-1063
Massachusetts General Hosp.	Contr. MH-64-53
Massachusetts Health Res.	Contr. CA-64-30
MASSARIK, FRED	OM-00392-4
MASSELL, BENEDICT F.	HE-04957-6
MASSERMAN, JULES H.	MH-08822-2
MASSEY, LOUIS M., Jr.	FF-00490-7
MASSEY, VINCENT	GM-11106-2
MASSHIKO, CHIRA	RH-00316-2
MASSIE, WILLIAM K.	AM-03604-5
MASSION, WALTER H.	HE-08329-2
MASSOPUST, LEO C., Jr.	NB-04393-3
MASSOPUST, LEO C., Jr.	NB-04990-2
MASTERS, HUGH B.	OM-01330-1
MASTERTON, R. BRUCE	NB-05251-2
MASTROIANNI, LUIGI, Jr.	HD-00633-3
MATA, LEONARDO	AI-05405-3
MATEER, RICHARD S.	DE-02147-1
MATELES, RICHARD I.	EF-00565-1
MATELES, RICHARD I.	EF-00694-1
Materials Res. Corp.	Contr. GM-65-997
MATHE, GEORGES	CA-05703-4
MATHER, JANE H.	AI-05634-1
MATHEWS, CHRISTOPHER K.	AI-05991-2
MATHEWS, KENNETH P.	AI-01897-8
MATHIASEN, GENEVA	OM-01540-1
MATIJEVIC, EGON	WP-00815-1
MATIOLI, GASTONE	AM-08197-2
MATLES, ARTHUR L.	HD-01225-2
MATOLTSY, ALEXANDER G.	AM-05779-4
MATOLTSY, ALEXANDER G.	AM-06924-5
MATOTH, YEHUDA	HE-04931-6
MATOVINOVIC, JOSIP	CA-06381-4
MATSUMOTO, HIROMU	NB-03909-4
MATSUMURA, FUMIO	ES-00067-1
MATSUSHIMA, YOSHIO	AI-04586-4
MATSUURA, TERUO	AM-07955-2
MATTENHEIMER, HERMANN	HF-03912-7
MATTERSON, LLOYD D.	AM-05396-4
MATTESON, DONALD S.	CA-05513-5
MATTHEWS, JAMES H.	NB-05574-1
MATTHEWS, JAMES L.	DE-01313-5
MATTHEWS, LEROY W.	AM-06748-3
MATTHEWS, LEROY W.	AM-08305-2
MATTHEWS, RICHARD E.F.	AI-04973-3
MATTISON, BERWYN F.	OM-00951-2
MATTOCKS, ALBERT	AM-08211-2
MATTOX, VERNON R.	AM-05452-4
MATTSSON, NILS B.	MH-08781-1
MATURANA, HUMBERTO R.	NB-05057-1
MATUSZAK, ALICE J.	MH-11789-1
MATZKE, HOWARD A.	NB-04414-3
MATZKE, HOWARD A.	NB-04532-3
MAUER, ALVIN M.	CA-04826-6
MAUMENEE, A.E.	NB-04446-3
MAUMENEE, A. EDWARD	NB-03040-5
MAURER, PAUL H.	AI-03514-5
MAURITZEN, CHARLES M.	GM-09589-4
MAURIZI, JEROME	HE-08852-1
MAURUKAS, JONAS	HF-06408-4
MAUSNER, BERNARD	CD-00039-3
MAUTNER, HENRY G.	CA-03937-7
MAXCY, R. BURT	EF-00482-2
MAXCY, R. BURT	EF-00739-1
MAXFIELD, MYLES	AI-04873-3
MAXWELL, DAVID S.	NB-03604-4
MAXWELL, GEORGE M.	HF-05466-5
MAXWELL, MORTON H.	AM-07071-2
MAXWELL, MORTON H.	HF-03670-8
MAXWELL, MORTON H.	HE-06354-5
MAXWELL, MORTON H.	HF-07011-3
MAXWELL, ROBERT A.	HE-08454-2
MAY, CHARLES D.	AM-05795-4
MAY, CHARLES D.	HD-01892-1
MAY, DONALD S.	WP-00727-1
MAY, LEOPOLD	GM-10574-3
MAY, LEOPOLD	NB-02927-5
MAY, PHILIP R.A.	MH-02719-4
MAY, PHILIP R.A.	MH-04589-3
MAYBURY-LEWIS, DAVID	MH-06185-4
MAYER, JEAN	AM-02911-6
MAYER, JEAN	AM-02839-6
MAYER, JEAN	NB-01941-7
MAYER, MANFRED M.	AI-03566-6
MAYER, STEVEN E.	HF-04626-6
MAYES, W. FRED	FR-05450-4
MAYMAN, CHAIM I.	NB-05722-1
MAYNARD, EDITH A.	NB-04179-3
MAYNERT, E.W.	NB-04153-3
MAYNERT, E.W.	NB-04353-3
MAZELIS, MENDEL	GM-09337-3
MAZER, MILTON	OM-01860-1
MAZIA, DANIEL	GM-06025-7
MAZIA, DANIEL	GM-10532-3
MAZUR, ABRAHAM	AM-01655-8
MAZZARELLA, JOHN A.	CD-00150-1
McALLISTER, ROBERT M.	CA-04865-6
McALLISTER, WALLACE R.	MH-02064-7
McARTHUR, JANET W.	AM-04378-5
McATEE, OTT B.	OM-02062-1
McAULAN, B.R.	AI-06200-2
McBAIN, WILLIAM N.	AC-00025-3
McBRIDE, RAYMOND A.	AM-10036-1
McCABE, ALICE R	OM-00701-4
McCABE, BRIAN F.	NB-05852-1
McCABE, WILLIAM R.	AI-05941-2
McCANN, GILBERT D.	NB-05924-1
McCAFFREE, KENNETH M.	MH-09193-2
McCAFFREY, ISABEL	OM-01030-1
McCALL, DANIEL F.	MH-08322-2
McCALL, JOHN T.	AM-09759-1
McCALLUM, CHARLES A.	FR-05300-4
McCAMMON, ROBERT W.	HD-00675-2
McCANDLESS, ESTHER L.,	AM-09172-1
McCANDLESS, GEARY A.	NB-05614-1
McCANN, FRANCES V.	HF-06132-5
McCANN, GILBERT D.	NB-03627-4
McCANN, SAMUEL M.	AM-01236-9
McCANN, WILLIAM P.	AM-07933-3
McCARCKEN, BRIAN H.	AM-05911-4
McCARROLL, JAMES R.	AC-00019-6
McCARROLL, JAMES R	AP-00266-3
McCARTHY, BRIAN J.	GM-12449-1
McCARTHY, JACK D.	CA-06668-3
McCARTHY, JAMES J.	OM-01361-1
McCARTHY, JOHN L.	AM-05744-4
McCARTHY, JOSEPH L.	WP-00627-2
McCARTHY, JOSEPH J	WP-00628-1
McCARTHY, MILES D.	AM-04485-5
McCARTNEY, CHARLES P.	CA-07462-2
McCARTY, DANIEL J.	AM-06611-3
McCARTY, DANIEL J., Jr.	AM-06615-3
McCARTY, KENNETH S.	GM-12805-1
McCARTY, MACLYN	FR-00102-2
McCARTY, MACLYN	HF-03919-7
McCARTY, PERRY L.	WP-00584-2
McCARTY, PERRY L.	WP-00715-1
McCASHLAND, BENJAMIN W.	AI-00850-10
McCAULEY, JAMES F.	AI-05640-2
McCAWLEY, ELTON L.	HF-02233-10
McCAY, PAUL B.	AM-06978-3
McCAY, PAUL B.	AM-08397-5
McCAY, PAUL B.	GM-08182-4
McCELLAND, DAVID C.	MH-02980-6
McCLEARY, ROBERT A.	MH-05755-4
McCLELLAND, ROBERT N.	HE-09318-1
McCLENAHAN, JAMES B.	HF-09375-1
McCLESKEY, C.S.	AI-02924-6
McCLOSKY, HERBERT	MH-05837-3
McCLUER, ROBERT H.	NB-05222-2
McCLUNG, LELAND S.	AI-05741-3
McCLUNG, NORVEL M.	AI-04430-3
McCLURE, JAMES H.	HD-00451-3
McCLURE, ROBERT C.	DE-02181-1
McCLUSKEY, ELWOOD S.	GM-11864-2
McCLUSKEY, ROBERT T.	AI-01497-8
McCLUSKEY, ROBERT T.	AM-01395-9
McCOLLISTER, ROBERT J.	CA-08028-1
McCOLLOUGH, CELESTE	NB-04898-2
McCOLLUM, ROBERT W.	AI-04566-3
McCONNEL, DUNCAN	DE-01411-4
McCONNELL, DAVID G.	NB-04452-3
McCONNELL, FRANCES S.,	CH-00070-2
McCONNELL, JAMES V.	MH-11068-1
McCONNELL, KENNETH P.	AM-04445-5
McCONNON, MYLES	FR-00017-3
McCORD, TOMMY J.	AM-04060-6
McCORKLE, LOIS P.	HM-00348-2
McCORMACK, JAMES E.	FR-05393-4
McCORMICK, DONALD B.	AM-04585-5
McCORMICK, DONALD B.	AM-08721-1
McCORMICK, NEIL G.	AI-06037-2
McCORQUODALE, D. JAMES	GM-06298-7
McCOY, EARL	OM-01214-3
McCOY, ERNEST E.	HD-01812-4
McCOY, JOHN R.	CA-05130-5
McCREA, JOHN FALDING	AI-05185-2
McCREA, MARION W.	FR-05339-4
McCREIGHT, CHARLES E.	HE-06860-3
McCROAN, JOHN E.	FF-00468-2
McCRONE, JOHN D.	GM-11206-3
McCRUMB, FRED R., Jr.	TW-00147-6
McCRONE, WALTER C.	GM-10745-2
McCULLERS, JOHN C.	MH-08916-2
McCULLOCH, WARREN S.	NB-04985-2
McCURDY, PAUL R.	AM-02823-6
McCURDY, PAUL R.	AM-09307-1
McDANIEL, IVAN N.	GM-13074-1
McDANIEL, LLOYD E.	AI-04744-3
McDERMOTT, WALSH	AI-00635-12
McDERMOTT, WILLIAM V., Jr.	AM-08681-1
McDONALD, DANIEL J.	GM-05836-6
McDONALD, DAVID G.	MH-10236-1
McDONALD, DONALD A.	HF-08606-2
McDONALD, DONALD R.	WP-00740-1
McDONALD, DONALD F.	HE-06657-4
McDONALD, GERALD O.	CA-07574-2
McDONALD, JAMES H.	CA-05378-5
McDONALD, RALPH E.	DE-01813-3
McDONOUGH, EUGENE S.	AI-02211-7
McDOWELL, FLETCHER	NB-03346-4
McDOWELL, FLETCHER	NB-05831-1
McDOWELL, FLETCHER H.	NB-03384-8
McDOWELL, WANDA	NU-00132-1
McDUFF, HENRY C., Jr.	CA-07144-2
McDUFFIE, FREDERIC C.	AM-09772-1
McEACHERN, A.W.	MH-06597-3
McELREE, HELEN	AM-07181-3
McELROY, WILLIAM D.	GM-07901-5
McELROY, WILLIAM D.	GM-10863-6
McELWAIN, DONALD W.	MH-10970-1
McEWEN, CURRIER	AM-01491-9
McEWEN, WILLIAM E.	CA-06620-3
McEWEN, WILLIAM K.	NB-05451-1
McFADDEN, BRUCE A.	GM-09039-4
McFALL, ELIZABETH	GM-11899-2
McFARLAND, ROSS A.	AC-00181-1
McFARLAND, WILLIAM	AM-07907-2
McFEE, RICHARD	HF-04971-4
McFEE, RICHARD	HF-08607-2
McGANDY, ROBERT B.	HE-09560-1
McGANDY, ROBERT B.	HF-09579-1
McGAUGH, JAMES L.	MH-10261-2
McGAUGHEY, HARRY S., Jr.	HD-00275-9
McGAUGHEY, HARRY S., Jr.	HD-00545-4
McGAUHEY, PERCY H.	WP-00764-1
McGAUHEY, PERCY H.	WP-00207-5
McGAUHEY, PERCY H.	WP-00597-2
McGEACHIN, ROBERT L.	AM-02610-7
McGEACHIN, ROBERT L.	AM-07944-6
McGEE, T. MANFORD	NB-02879-5
McGEER, PATRICK L.	HF-05664-5
McGHEE, R. BARCLAY	AI-00924-10
McGILL, HENRY C., Jr.	HF-09165-9
McGILL, HENRY C., Jr.	HF-07913-3
McGILL, HENRY C., Jr.	NB-04055-4
McGILL, THOMAS E.	GM-07495-5
McGILVERY, R.W.	GM-05431-8
McGIRR, EDWARD M.	AM-05444-3
McGLOTHLIN, WILLIAM H.	MH-07861-1
McGLOTHLIN, WILLIAM J.	OM-01455-2
McGOVERN, JOHN P.	AI-06024-2
McGOWEN, LARRY	CA-07697-2
McGREGOR, DOUGLAS D.	AI-06175-2
McGREGOR, ROBERT F.	CA-07619-2
McGUIRE, FREDERICK L.	AC-00024-4
McGUIRE, JOSEPH S., Jr.	AM-08073-2
McHARDY, GORDON	AM-07539-2
McHARDY, GORDON	AM-07624-3
McHOSE, JAMES H.	MH-10340-1
McHUGH, PAUL R.	MH-10895-1
McILRATH, DONALD C.	AM-05920-4
McINTOSH, HENRY D.	HF-07563-1

McINTOSH, THOMAS H. EF-00619-2
McINTOSH, THOMAS H. WP-00672-2
McINTYRE, O. ROSS AM-02992-8
McINTYRE, O. ROSS CA-04326-7
McISAAC, ROBERT J. AM-08018-2
McISAAC, ROBERT J. NB-04435-3
McISAAC, WILLIAM M. MH-11168-1
McKAIN, JOHN M. HE-09354-1
McKAIN, WALTER C., Jr. OM-01887-1
McKAY, DONALD G. HF-05666-5
McKAY, ROBERT H. GM-11682-2
McKAY, ROBERT J., Jr. HD-00627-2
McKEAN, CHARLES M. HD-01823-3
McKEE, FRANK W. FR-05403-4
McKEE, JOHN M. OM-00976-4
McKEE, JOHN S., Jr. OM-01970-1
McKEE, RALPH W. CA-02006-12
McKEE, ROBERT I. CA-05781-5
McKEEVER, WILLIAM P. HF-06102-5
McKENNA, JOHN M. AI-02385-7
McKENNA, JOSEPH V. NU-00170-1
McKINNEY, JOHN C. NU-00028-6
McKINNEY, WILLIAM M. NB-05634-1
McKENZIE, JOHN M. AM-04121-6
McKERNS, KENNETH W. AM-04930-5
McKHANN, GUY M. NB-05300-2
McKINNEY, ROSS E. WP-00248-3
McKISSOCK, WYLIE NB-03138-5
McKISSOCK, WYLIE O. NB-04351-3
McKITTRICK, FRANCES A. AI-05053-3
McKUSICK, ANNE B. AM-06182-3
McKUSICK, VICTOR A. GM-10189-3
McKUSICK, VICTOR A HD-00798-2
McKUSICK, VICTOR A. HF-04180-5
McLAFFERTY, FRED W. GM-12755-1
McLAIN, PAUL L. HF-08059-2
McLAREN, LEROY C. AI-06450-2
McLAUGHLIN, EDWARD D. CA-08221-1
McLAUGHLIN, JOHN J.A. GM-07022-5
McLAUGHLIN, RONALD T. WP-00812-1
McLAUGHLIN, WILLIAM F. OM-01762-2
McLAURIN, ROBERT L. NB-06066-1
McLEAN, FRANKLIN C. AM-04225-5
McLEAN, JOHN M. NB-03010-3
McLEAN, ROSS L. AI-03600-5
McLEMORE, SAMUEL D. NU-00065-3
McLENDON, SOL B. OM-01972-1
McLIMANS, WILLIAM F. ES-00030-2
McMANUS, IVY R. AM-02914-7
McMANUS, IVY R. MH-04892-4
McMANUS, J F A AM-08607-2
McMANUS, J F A GM-09666-4
McMENAMY, RAPIER H. GM-08361-4
McMICHAEL, HARRISON CA-08156-1
McMILLAN, CAMPBELL W. HF-08498-2
McMILLAN, GARDNER C. HF-06586-4
McMILLAN, GARNETT R AP-00390-1
McMORRIS, TREVOR C. GM-12150-1
McNAIR-SCOTT, DWIGHT B. CA-04170-7
McNALL, EARL G. AI-04820-4
McNALLY, EDMUND F. AM-09236-1
McNAMARA, VIRGINIA OM-01889-1
McNARY, JOHN E. AI-05439-3
McNEIL, CRICHTON CA-05965-4
McNEIL, CRICHTON NB-01363-9
McNULTY, R.W. FR-05303-4
McNULTY, WILBUR P., Jr. CA-07983-1
McNUTT, C. WALLACE CD-00006-3
McNUTT, C. WALLACE NB-01147-9
McNUTT, WALTER S. AM-03675-6
McPARTLAND, THOMAS S. OM-01385-2
McPHEE, WILLIAM N. MH-10543-1
McPHERSON, MURRAY B. WP-00526-2
McPHILLIPS, JOSEPH J. HD-01816-1
McQUADE, HENRY A. RH-00347-7
McQUEEN, JOHN D. CA-03265-9
McQUEEN, JOHN D. NB-01246-7
McSHAN, W.H. GM-02154-16
McTERNAN, EDMUND J. FR-05480-3
McTIGUE, JOHN W. NB-05575-1
McVEIGH, ILDA AI-03524-5
MEACHAM, HARRY D. FR-05546-3
MEAD, JAMES F HF-04120-7
MEAD, JERE AP-00229-3
MEAD, JERE GM-12564-1
MEAD, JERE HD-01392-1
MEAD, MARGARET MH-07675-3
MEAD, MARGARET MH-08997-1
MEAD, NIRNA E. OM-01247-2
MEADE, ROBERT C. AM-08536-2
MEADER, ROLAND D. AM-08319-2
MEADOR, CLIFTON K AM-07817-2

MEADOWS, WILLIAM R. HE-06459-4
MEADS, MANSON FR-05404-4
MEALEY, JOHN, Jr. CA-06145-4
MEDAK, HERMAN DE-01963-2
MEDALIA, NAHUM Z. MH-11175-1
MEDEARIS, DONALD N., Jr. HD-01536-1
MEDEARIS, DONALD N., Jr. HE-06344-5
Medical Literature Contr. CA-61-4381
Medical Literature, Inc. Contr. CA-65-47
Medical Literature Contr. CA-65-601
Medical Literature Contr. CA-65-1024
Medical Res. Association of N.Y. Contr. MH-62-454
Medical Res. Council Contr. AM-65-32
Medical Res. Consult. Contr. CA-65-78
MEDLER, JOHN T. ES-00024-2
MEDNICK, SARNOFF A. MH-06867-3
MEEK, JOSEPH C. AM-09261-1
MEEK, PETER G ES-00032-1
MEEKER, C. IRVING AM-06488-3
MEEKS, FRANK R. AI-05586-2
MEEUSE, BASTIAAN J.D. GM-05441-5
MEGIRIAN, DAVID NB-03521-3
MEGIRIAN, ROBERT CA-06643-3
MEHR, EMANUEL WP-00662-1
MEHL, JOHN M. AM-02609-7
MEHLER, ALAN H. GM-13037-1
MEIER, PAUL FR-00013-3
MEIKLE, THOMAS H., Jr. NB-04974-2
MEIKLEJOHN, GORDON AI-00495-13
MEILE, RICHARD L. OM-01407-2
MEILI, RICHARD HD-01005-1
MEILING, RICHARD L. FR-05409-4
MEILMAN, EDWARD AM-01503-9
MEINEKE, HOWARD A. AM-03802-6
MEINTZER, ROGER B. AM-02452-7
MEINWALD, JERROLD GM-10090-3
MEISTER, ALTON HE-02319-10
MEITES, JOSEPH AM-04784-5
MELAMPY, ROBERT M. HD-01168-6
MELBIN, MURRAY OM-01305-2
MELBY, JAMES C. AM-06608-3
MELBY, JAMES C. AM-07179-4
MELCHIOR, JACKLYN B. FR-05436-4
MELCHIOR, JACKLYN B. GM-10094-3
MELICAN, THOMAS P. OM-01171-3
MELIUS, PAUL AM-08011-2
MELLETT, LAWRENCE B. CA-02992-9
MELLETT, LAWRENCE B. NB-02294-6
MELLETTE, SUSAN J CA-05736-5
MELLINKOFF, SHERMAN M. FR-00238-1
MELLINKOFF, SHERMAN M. FR-05354-4
MELLMAN, WILLIAM J. HD-00588-3
MELLO, NANCY K. NB-05004-2
MELLON, DeFOREST, Jr. NB-04989-2
MELLORS, ROBERT C. AM-03923-5
MELLORS, ROBERT C. AM-09119-1
MELLORS, ROBERT C. GM-10119-3
MELNICK, JOSEPH L. AI-05382-2
MELNICK, JOSEPH L CA-04600-7
MELNICK, P.J. CA-07468-2
MELNYK, JOHN HD-01343-1
MELNYKOVYCH, GEORGE CA-08315-1
MELONI, C. ROBERT AM-07056-2
Melpar, Inc. Contr. CA-64-1162
Melpar, Inc. Contr. CA-65-641
Melpar, Inc. Contr. CA-65-1033
MELTZER, LAWRENCE E. HE-05965-4
MELTZER, LAWRENCE E. NU-00096-3
MELTZER, LEO MH-11829-1
MELVILLE, DONALD B. AM-08638-1
MEMORY, JASPER D. CA-08167-1
MENDELOFF, ALBERT I. AM-01417-9
MENDELSOHN, DENNIS TW-00102-2
MENDELSOHN, MORTIMER L. CA-03896-8
MENDELSON, CHARLES G. CA-07515-1
MENDELSON, JACK H. MH-05619-5
MENDELSON, JACK H. MH-08432-2
MENDELSON, JACK H MH-10247-1
MENDELSON, JACK H. MH-11049-1
MENDELSON, MARTIN NB-04588-1
MENDEZ-BRYAN, RICARDO CD-00003-4

MENDEZ-CASHION, DOLORES I. NB-02464-6
MENDICINO, JOSEPH F. AI-05036-3
MENDLOWITZ, MILTON HE-06546-4
MENG, H.C. HF-04372-5
MENGE, ALAN C. GM-11130-3
MENGEL, CHARLES E. CA-06452-4
MENGEL, CHARLES E. CA-08170-1
MENGUY, RENE AM-05713-4
MENKES, JOHN H. NB-05212-2
Menninger Fdn. Contr. MH-65-41
MENSCHIK, ZYGMUNT J.K. DE-01509-4
Mental Hlth. Film Bd. Contr. MH-65-28
Mental Hlth. Film Bd. Contr. MH-65-652
Mental Health Matls. Cr. Contr. MH-64-578
Mental Hlth. Materials. Contr. HD-65-985
MENZEL, EMIL W., Jr. MH-11425-1
MENZEL, HERBERT GM-09475-2
MENZEL, R. WINSTON FF-00122-6
MENZER-BENARON, DORIS HD-00317-6
MERCER, SHERWOOD R. FR-05440-4
MERCER, WALTER A. FF-00082-8
MERCER, WALTER A. FF-00108-3
MERCHANT, DONALD J. CA-03720-8
Merck and Co. Contr. CA-60-3057
Merck and Co. Contr. CA-62-479
Merck and Co. Contr. CA-64-55
MEREDITH, CHARLES E. OM-01721-2
MEREDITH, CHARLES E. OM-01724-2
MEREDITH, WILLIAM GM-10735-3
MERENDINO, K. ALVIN HE-03379-8
MERIGAN, THOMAS C. AI-05629-3
MERKLIN, ROBERT J. HF-08441-2
MERLIS, JEROME K. NB-03206-5
MERLIS, SIDNEY MH-05096-4
MERRIAM, GEORGE R., Jr. NB-01142-9
MERRIAM, ROBERT W. GM-10142-3
MERRICK, JOSEPH M. AI-04501-4
MERRIL, JOHN P. HF-08260-2
MERRILL, EDWARD W. HE-06423-4
MERRILL, EDWARD W. HF-08598-2
MERRILL, IRVING R. HE-09564-1
MERRILL, JAMES A. CA-06626-4
MERRILL, JAMES A. GM-11025-3
MERRILL, JAMES A. HD-01188-3
MERRILL, JAMES A. HD-01220-2
MERRILL, MALCOLM H. CA-05924-5
Merrill-Palmer Inst. Contr. MD-65-586
MERRILL, RALPH G. DE-02033-2
MERRITT, A. DONALD AM-05456-4
MERRITT, A. DONALD AM-06562-3
MERRITT, A. DONALD DE-01729-3
MERRITT, DORIS H. FR-05371-4
MERRITT, H. HOUSTON FR-05395-4
MERRITT, H. HOUSTON NB-03359-4
MERRITT, H. HOUSTON NB-04014-3
MERRITT, H. HOUSTON NB-05184-2
MERRITT, H. HOUSTON NB-06265-1
MERRITT, KATHARINE HD-01535-1
MERSKEY, CLARENCE HE-06191-5
MERSKEY, CLARENCE HE-06622-2
MERTES, MATHIAS P. CA-05639-5
MERTES, MATHIAS P. CA-06536-3
MERTES, MATHIAS P. CA-07522-1
MERTZ, DAN GM-08706-4
MERTZ, EDWIN T. HD-00359-3
MERTZ, EDWIN T. HE-08401-2
MERTZ, EDWIN T. NB-05262-2
MERZ, ROBERT C. FF-00140-5
MESCHAN, ISADORE HE-05418-5
MESCHES, LEANORE OM-01915-1
MESCON, HERBERT AM-07084-4
MESSER, JOSEPH V. HF-08613-2
MESSICK, SAMUEL J. MH-02878-6
MESSICK, SAMUEL J. MH-04186-5
MESSINEO, LUIGI CA-07228-2
MESTER, LASZLO HE-06926-4
METCALF, DAVID R. OH-00213-1
METCALFE, JAMES HE-06042-4
METCOFF, JACK AM-07034-3
METRAKOS, JULIUS D. NB-00706-11
METZ, BERNARD NB-00954-7
METZ, ROBERT AM-09370-1
METZENBERG, ROBERT L. GM-08995-4

ALPHABETICAL LISTING OF INVESTIGATORS

METZGAR, RICHARD S. AM-08054-2
METZGER, DUANE G. MH-11108-1
METZLER, DAVID E. AM-01549-9
METZNER, CHARLES A. CH-00040-2
MEYER, ANDRE S. HD-00984-1
MEYER, DALLAS K. HE-07118-4
MEYER, DONALD R. MH-02035-8
MEYER, DONALD R. MH-06211-4
MEYER, EDWARD C. HE-08601-2
MEYER, EUGENE OM-01418-2
MEYER, FRANZ D. AI-05772-2
MEYER, JOHN S. HE-04747-6
MEYER, JOHN S. NB-03564-4
MEYER, JULIA DE-00658-8
MEYER, K.F. AI-04406-4
MEYER, KARL AM-00570-14
MEYER, KARL A. AM-04648-3
MEYER, KARL F. EF-00192-5
MEYER, LEO M. CA-08279-1
MEYER, MARGARET E. AI-04638-4
MEYER, MARVIN C. AI-02759-6
MEYER, MAURICE W. DE-01796-3
MEYER, MERLE E. MH-10868-1
MEYER, RICHARD E. R. AM-08237-2
MEYER, WALTER L. AM-04215-6
MEYER, WILLIAM J. HD-00879-3
MEYER, WILLIAM LAROS AM-09328-1
MEYEROWITZ, SANFORD MH-05339-5
MEYERS, ALBERT I. AI-05611-2
MEYERS, ALBERT I. GM-06248-6
MEYERS, PHILLIP H. HE-07991-1
MEYERS, PHILLIP H. HE-08339-2
MEYERS, SAMUEL P. GM-12482-1
MEYERS, WILLIAM J. MH-11803-1
MEZROW, RALPH A DE-01587-3
MI, MING-PI GM-12561-1
Miami Serpentarium Contr. DBS-65-87
Miami Univ. Contr. CA-64-80
MICHAEL, ALFRED F., Jr. AM-09007-1
MICHAEL, RICHARD P. MH-10002-1
MICHAELI, DOV ES-00037-2
MICHAELS, ALAN S. GM-08288-5
MICHAELS, JOSEPH OM-00761-3
MICHAELS, RICHARD H. AI-04535-4
MICHAELSON, I. ARTHUR NB-06053-1
MICHEL, FRANCIS W. AM-09008-1
MICHELAKIS, HANNELORE H. AI-05628-3
MICHELS, KENNETH M. HD-01454-1
MICHELS, NICHOLAS A. HE-05480-5
MICHELSON, JOSEPH P. OM-01169-3
MICHENER, CHARLES D. AI-04438-3
MICHIE, ALEXANDER J. AM-02662-7
Michigan Dept. of Hlth. Contr. CA-65-7
Michigan State Univ. Contr. CA-64-85
Michigan State Univ. Contr. CA-65-100
Michigan Univ. Contr. CA-64-13
MICKELSEN, OLAF AM-08496-2
MICKELSEN, OLAF CA-07052-3
Microbiological Associates Contr. AI-62-200
Microbiological Associates Contr. AI-63-81
Microbiological Associates Contr. AI-64-941
Microbiological Associates Contr. CA-61-4356
Microbiological Associates Contr. CA-62-161
Microbiological Associates Contr. CA-64-911
Microbiological Associates Contr. CA-65-75
Microbiological Associates Contr. CA-65-565
Microbiological Associates Contr. CA-65-587
Microbiological Associates Contr. HD-65-1004
Microbiological Associates Contr. NB-65-90
MIDDLETON, CHARLES C. HE-08996-2
MIDDLETON, SAMUEL NB-03640-3
MIDGLEY, A. REES, Jr. CA-06115-4
MIDULLA, MARIO TW-00054-3
Midwest Res. Inst. Contr. CA-65-94
NB-06034-1
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MIECH, RALPH P.
MIESCHER, PETER A.
MIESCHER, PETER A.
MIETTINEN, JORMA K.
MIGEON, CLAUDE J.
MIHICH, ENRICO
MIKAELIAN, HARUTUNE H.
MIKAWA, JAMES K.
MIKHAIL, GIRGIS
MIKKELSEN, WILLIAM M.
MIKKELSEN, WILLIAM M.
MIKUTA, JOHN J.
MILBURN, RONALD M.
MILCH, ROBERT A.
MILES, DONALD G.
MILES, PHILIP G.
MILES, RAYMOND C.
MILGRAM, NORMAN A.
MILGROM, FELIX
MILHORAT, ADE T.
MILKMAN, ROGER D.
MILKOVIC, STEVAN
MILLEMANN, RAYMOND E.
MILLEMANN, RAYMOND E.
MILLER, BERNARD
MILLER, BERNARD J.
MILLER, C. ARDEN
MILLER, CALIXTUS
MILLER, DOROTHY H.
MILLER, EARL R.
MILLER, FRANCIS M.
MILLER, FRANK C.
MILLER, GENE W.
MILLER, GENEVIEVE
MILLER, GEORGE A.
MILLER, GEORGE E.
MILLER, GEORGE H., Jr.
MILLER, GEORGE T., Jr.
MILLER, HARRY C.
MILLER, HERBERT C.
MILLER, IRVING F.
MILLER, ISAAC H., Jr.
MILLER, J. LOWRY
MILLER, JACK W.
MILLER, JAMES A.
MILLER, JAMES A., Jr.
MILLER, JAMES E.
MILLER, JAMES E.
MILLER, JAMES G.
MILLER, JAMES N.
MILLER, JAMES O.
MILLER, JERRY R.
MILLER, JERRY R.
MILLER, JOSEPH H.
MILLER, KENT D.
MILLER, LOUISE J.
MILLER, LOVICK C.
MILLER, MALCOLM R
MILLER, MARILYN E.
MILLER, MAX
MILLER, NEAL E.
MILLER, NEAL E.
MILLER, NORMA D.
MILLER, NORMAN F.
MILLER, NORMAN G.
MILLER, O. NEAL
MILLER, O. NEAL
MILLER, ORLANDO J.
MILLER, RICHARD A.
MILLER, ROBERT A.
MILLER, SANFORD A.
MILLER, SANFORD A.
MILLER, SHERWOOD P.
MILLER, SIDNEY I.
MILLER, SIDNEY I.
MILLER, STANLEY L.
MILLER, VERNON L.
MILLER, W.J.
MILLER, WALTER B.
MILLER, WILLIAM F.
MILLER, WILLIAM H.
MILLER, WILLIAM T.
MILLER, WILMER G.
MILLEY, PAUL S.
MILLHOUSE, EDWARD W., Jr.
MILLIAN, STEPHEN J.
MILLICHAP, J. GORDON
MILLIKAN, CLARK
MILLIKAN, CLARK H
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MILLS, GORDON C.
MILLS, LEWIS C.
MILLS, RICHARD D. FR-05481-3
MILLS, RUSSELL C. FR-05373-4
MILLS, THEODORE M. MH-03876-4
MILLWARD, RICHARD B. MH-11255-1
MILNE, H. BAYARD GM-11835-2
MILNER, BRENDA NB-02831-5
MILNER, WILLIAM A. CA-08015-1
MILNOR, WILLIAM R. HE-07174-4
MILOJEVIC, BOSKO NB-02779-5
MILSTONE, J. HASKELL HE-03906-7
MIN, HONG S. GM-12235-2
MINDELL, EUGENE R. AM-07545-2
MINDLIN, ROWLAND L. CH-00063-2
MINERS, WILLIAM S. MH-11069-1
MING, SI-CHUN CA-05991-4
MINKOWSKI, ALEXANDRE HD-00716-1
MINSAVAGE, EDWARD J. AI-05443-3
MINTON, SHERMAN A., JR. GM-11744-2
MINTZ, BEATRICE CA-05201-6
MINTZ, DANIEL H. AM-09438-1
MINUCHIN, SALVADOR OM-00745-4
MIRAND, EDWIN A. AI-04506-4
MIRANDA, MARY NB-04146-3
MIRAS, CONSTANTINOS HD-01491-1
MIROFF, GEORGE CA-05438-6
MIRONE, LEONORE MH-04813-4
MIRSKY, ALFRED GM-04919-9
MIRSKY, ALLAN F. MH-10324-1
MIRSKY, I. ARTHUR MH-00487-14
MIRSKY, WILLIAM AP-00366-1
MISCHEL, WALTER MH-06830-4
MISHLER, ELLIOT G. MH-06276-3
MISIAK, HENRY K. NB-03888-3
MISKOLCZY-FODOR, FRANCIS NB-03039-5
Missouri Univ. Contr. CA-65-58
MISTRY, SORAB P AM-08373-2
MISUGI, KAZUAKI CA-07874-1
MITCHELL, CLIFFORD L. MH-06564-3
MITCHELL, DAVID F. DE-02198-1
MITCHELL, GEORGE E., Jr. AM-08355-2
MITCHELL, GEORGE W., Jr. HD-01805-1
MITCHELL, H.L. EF-00569-2
MITCHELL, JAMES C. MH-07968-2
MITCHELL, JERE H. HE-07717-3
MITCHELL, JOHN E. EF-00288-3
MITCHELL, MARVIN L. AM-01998-7
MITCHELL, MARVIN L. AM-03729-6
MITCHELL, ROBERT A. GM-05881-7
MITCHELL, ROGER S. AP-00257-2
MITCHELL, ROGER S. HE-06067-4
MITCHELL, WILLIAM E. OM-01019-4
MITHOEFER, JOHN C. HE-05322-5
MITHOEFER, JOHN C. HE-09130-1
MITTLER, SIDNEY RH-00140-2
MIYA, TOM S. MH-08803-2
MIYAJI, TORU CA-03481-8
MIYAKE, TADASHI CA-06035-4
MIZUHARA, SHUNZI HE-07419-3
MIZUKOSHI, OSAMU NB-02517-6
MIZUNO, HIDEO TW-00130-1
MIZUNO, NOBUKO S. CA-07543-2
MIZUTANI, HIROMICHI TW-00039-3
M.M.M. Co. Contr. DE-65-15
MOBLEY, E.L. FR-05341-4
MOCKROS, LYLE F. HE-09536-1
MODRICK, JOHN A MH-08443-1
MOE, GORDON K. HE-07767-3
MOELLER, THERALD GM-11996-2
MOFFET, HUGH L. AI-06010-2
MOFFET, HUGH L. AI-06181-1
MOGABGAB, WILLIAM J. AI-01131-9
MOGHADAM, A. N. HE-07615-3
MOHANTY, SASHI B. AI-03149-5
MOHLER, DANIEL N. HE-06239-4
MOHN, JAMES F. HE-05351-5
MOHN, JAMES F. HE-08691-2
MOHOS, STEVEN C. AM-08432-2
MOKLER, CORWIN M. HE-07694-3
MOLDAVE, KIVIE AM-01397-9
MOLDAWER, MARC AM-04134-6
MOLLER, PALMI HD-01841-1
MOLLIN, DAVID L. HE-06666-3
MOLNAR, JOHN J. GM-07744-5
MOLOF, ALAN WP-00690-2
MOLOMUT, NORMAN CA-07114-2
MOLONEY, WILLIAM C. CA-05691-5
MOLONEY, WILLIAM C. CA-07801-2
MOLTZ, HOWARD MH-07967-2
MOMENT, GAIRDNER B. GM-04774-8
MOMMAERTS, WILFRIED F.H.M. HE-03067-8

MONAFO, WILLIAM W., Jr. HE-08594-1
MONAHAN, THOMAS P. MH-11158-1
MONCKEBERG, FERNANDO AM-04226-5
MONDER, CARL AM-09006-1
MONDER, CARL AM-09056-1
MONESI, VALERIO RH-00304-2
MONEY, JOHN HD-00325-9
MONIE, IAN W. HD-00419-10
MONOD, JACQUES L. AI-03998-4
MONROE, BARBARA G. NB-02321-5
MONROE, LEE S AM-03295-6
MONROE, ROBERT G. HE-06144-5
MONROE, RUSSELL R. MH-04137-5
MONROY, ALBERTO GM-06211-7
Monsanto Res. Corp. Contr. CA-65-1044

MONTAGNA, WILLIAM AM-08445-1
MONTAGNA, WILLIAM AM-09431-1
MONTALVO, JOSE M. HD-00795-2
MONTGOMERY, JOHN B. CA-07901-2
MONTGOMERY, MORRIS W. AM-09306-1
MONTGOMERY, REX HF-06717-3
MONTGOMERY, WILLIAM W NB-05238-2
MONTO, RAYMOND W. CA-04915-6
Montreal Childrens Hosp. Contr. CA-65-1020

MOODY, FRANK G. AM-09401-1
MOODY, WILLIS E. DE-01972-2
MOOG, FLORENCE GM-03937-11
MOOK, DOUGLAS G. MH-10766-1
MOOLTEN, SYLVAN E. HF-06486-4
MOON, HENRY D. CA-03341-9
MOON, HENRY D. HE-01542-12
MOON, JOHN H. CA-03735-8
MOON, RICHARD C. CA-05105-6
MOONEY, WILLIAM E MH-02251-5
MOORE, ALICE E. CA-08049-1
MOORE, BLAKE W. CA-05228-5
MOORE, BLAKE W. NB-05270-2
MOORE, CARL V HF-00022-19
MOORE, CHARLES W. HM-00299-1
MOORE, DAN H. CA-04573-7
MOORE, FRANCIS D AM-02657-7
MOORE, G. PAUL NB-04056-5
MOORE, GEORGE E. CA-04180-7
MOORE, GEORGE E. CA-05848-4
MOORE, GEORGE E. CA-06060-4
MOORE, GEORGE E. CA-08204-1
MOORE, HILARY B. WP-00573-2
MOORE, J. GEORGE CA-02413-11
MOORE, JAMES C. HF-07577-3
MOORE, JOANNE I. HE-07408-3
MOORE, JOHN W. HD-00955-3
MOORE, JOHN W. MH-10794-1
MOORE, JOHN W. NB-03437-4
MOORE, JOSEPH AI-05595-2
MOORE, KENNETH E. AM-06275-4
MOORE, MARIAN E. HD-01706-3
MOORE, MATTHEW T. NB-05028-2
MOORE, RICHARD D. HD-01918-1
MOORE, RICHARD O. AM-04241-5
MOORE, ROBERT A. FR-05401-4
MOORE, ROBERT Y. NB-04677-3
MOORE, ROBERT Y. NB-05002-2
MOORE, SAMUEL W. HE-06846-3
MOORE, WALTER E.C. AI-05425-2
MOORE, WARD W NB-01296-8
MOORE, WILLIAM M. GM-11401-2
MOORREES, COENRAAD F.A. DE-01075-6
MOORREES, COENRAAD F.A. DE-01309-5
MOOS, CARL GM-10249-3
MOOSSY, JOHN NB-04055-4
MORACZEWSKI, ALBERT S. MH-05206-4
MORAN, LOUIS J. MH-08778-2
MORAN, NEIL C. HE-02953-8
MORANT, RICARDO B. MH-03658-6
MORATO, TOMAS TW-00032-2
MORAWETZ, HERBERT GM-05811-7
MOREHOUSE, MARGARET G. AM-03458-6
MOREHOUSE, MARGARET G. HE-05014-6
MORELAND, ALVIN F. HF-06379-4
MORELL, SAMUEL A. HE-04965-6
MORENG, ROBERT E GM-11763-1
MOREST, DONALD K. NB-06115-1
MORGAN, HERBERT R. CA-05206-5
MORGAN, JAMES J WP-00732-1
MORGAN, JAMES J. WP-00845-1
MORGAN, LEE R., Jr. CA-06566-3
MORGAN, PAUL E. WP-00196-5
MORGAN, RUSSELL H. RH-00085-8
MORGAN, THOMAS E., Jr. HF-08832-2
MORGAN, WINFIELD S. AM-07555-3
MORGAN, WINFIELD S. CA-07766-1
MORGENSTERN, LEON HE-09319-1
MORI, PAUL A. HE-08608-1
MORIARTY, ROBERT M. AM-09303-1
MORIARTY, ROBERT M. GM-09998-3
MORIARTY, ROBERT M. GM-11595-2
MORIARTY, ROBERT M. GM-12532-1
MORI-CHAVEZ, PABLO CA-06597-4
MORICONI, EMIL J. CA-07808-2
MORIN, RICHARD D. MH-07842-3
MORIN, ROBERT V. FR-05515-3
MORITA, RICHARD Y. AM-06752-4
MORITA, RICHARD Y. WP-00443-3
MORIYA, HIROSHI HE-07641-3
MORKOVIN, BORIS V. NB-05861-1
MOROWITZ, HAROLD J. AM-05226-4
MORRELL, FRANK NB-03543-6
MORRILL, GENE A. GM-10757-3
MORRILL, SONIA D. RH-00299-2
MORRIONE, THOMAS G. AM-02850-7
MORRIS, ALLAN J. AM-08575-2
MORRIS, ALVIN L. FR-05314-4
MORRIS, CHARLES E. NB-05324-2
MORRIS, GEORGE C., Jr. HF-06651-3
MORRIS, HUGHLETT L. DE-00853-8
MORRIS, LUCIEN E. NB-03996-3
MORRIS, MANFORD D. AM-07846-2
MORRIS, R. CURTIS HE-10044-1
MORRIS, RALPH W. NB-03880-3
MORRIS, RICHARD T. DH-00019-3
MORRIS, ROBERT DH-00021-3
MORRIS, ROBERT L. WP-00378-3
MORRIS, WILFORD H.M. OH-00091-8
MORRISON, ASHTON B. AM-06014-4
MORRISON, JOHN F. TW-00098-2
MORRISON, MARTIN GM-08964-4
MORRISON, MARTIN GM-10214-3
MORRISON, MARY A. AM-05933-4
MORRISON, ROBERT S. HE-08157-3
MORRISON, ROBERT T. GM-07764-4
MORRISON, S.M. FF-00507-2
MORRISON, S.M. WP-00679-2
MORRISSETTE, MAURICE C HD-01088-1
MORRISSEY, JOHN F. AM-06329-3
MORROW, DEAN H HE-09612-1
MORS, WALTER B. CA-07464-1
MORSE, DRYDEN P. HF-09687-1
MORSE, ERSKINE V. FR-05459-3
MORSE, GUY E. EF-00283-4
MORSE, JANE H. HE-10049-1
MORSE, MELVIN L. AI-01345-9
MORSE, ROGER A. GM-12390-1
MORSE, STEPHEN I. AI-06116-2
MORTENSON, LEONARD E. AI-04865-3
MORTER, RAYMOND L. AI-04029-4
MORTIMER, ELIZABETH M. NB-04864-2
MORTON, HARRY E. AI-04006-5
MORTON, JULIA F. CA-07966-1
MORTON, NEWTON E. GM-10424-2
MORTON, NEWTON E. GM-12454-1
MORTON, RICHARD A. AM-05282-4
MORUZZI, GUISEPPE NB-05695-1
MOSBACH, ERWIN H. AM-05222-5
MOSBACH, ERWIN H. HF-08022-2
MOSCATELLI, EZIO A. NB-04593-2
MOSCONA, ARON A. HD-01253-7
MOSCOVICI, CARLO CA-08111-1
MOSER, HUGO W. NB-02672-6
MOSER, KENNETH M. HE-06236-4
MOSES, MONTROSE J. GM-06753-6
MOSES, ROBERT A. NB-04774-2
MOSES, SHIMON W. AM-09302-1
MOSEY, LOIS M. HD-00273-4
MOSHER, HARRY S. GM-05248-8
MOSHER, HARRY S. HD-00218-4
MOSIER, H. DAVID HD-00791-2
MOSKOWITZ, MERLE S. HE-08435-2
MOSKOWITZ, MERWIN GM-07733-5
MOSKOWITZ, NORMAN NB-04420-3
MOSS, FENTON E. OM-02209-1
MOSS, GERALD AM-08248-2
MOSS, GERALD NB-03527-4
MOSS, MELVIN L. DE-01206-5
MOSS, MELVIN L. DE-01715-3
MOSS, MELVIN L. NB-00965-10
MOSSBERG, SANFORD M. AM-07905-2
MOSSMAN, HARLAND W. HD-00277-8
MOSS, STANLEY M. MH-11044-1
MOST, HARRY AI-01401-8
MOTT, THURMAN, Jr. OM-01204-3
MOTTET, N. KARL F AM-08727-1
MOTTO, ROCCO L. OM-01535-1
MOTULSKY, ARNO G. HD-00061-2
MOTULSKY, ARNO G. HE-03091-9
MOTZKIN, SHIRLEY M HD-00161-5
MOULDER, JAMES W. AI-01594-9
MOULTON, GEORGE H. FR-05308-4
MOULTON, GRACE C. GM-12737-1
MOUNT, JOSEPH FR-00145-2
MOUNTAIN, CLIFTON F. CA-07200-2
MOUNTCASTLE, VERNON B. NB-01045-10
MOURY, DANIEL, N.M. AM-08992-1
MOVITZ, DAVID HE-08142-1
MOWER, HOWARD F. AM-09327-1
MOWRY, ROBERT W AM-00937-10
MOYA, FRANCISCO J. AM-08041-2
MOYA, FRANK HD-01434-1
MOYA, VICTOR CC-00080-4
MOYED, HARRIS S. GM-11269-3
MOYER, CARL A. GM-07787-4
MOYER, DEAN L. HD-01087-1
MOYER, KENNETH E. MH-01298-9
MOYERS, ROBERT E. DE-00224-9
MOYERS, ROBERT E. DE-01441-5
MOZELL, MAXWELL M. NB-03904-3
MRAK, EMIL M. FR-00169-4
MRAK, EMIL M. FR-00176-1
MUCHMORE, HAROLD G. CC-00119-1
MUCKLE, CRAIG W. CA-07750-2
MUDD, JOHN B. AP-00071-3
MUDD, STUART AI-05473-3
MUDGE, GILBERT H. AM-06818-4
MUDGE, GILBERT H. FR-05392-4
MUEHRCKE, ROBERT C. HE-05529-5
MUELLER, AUGUST P AI-05338-3
MUELLER, C. BARBER AM-01393-10
MUELLER, ERWIN W GM-12286-1
MUELLER, HELMUT HE-09544-1
MUELLER, JOHN F. HF-09345-1
MUELLER, JUSTUS F AI-01876-8
MUELLER, PETER AP-00031-3
MUELLER, WERNER J. AM-04362-4
MUELLER, WILLIAM J. GM-11413-2
MUELLING, RUDOLPH J., Jr. AI-04404-4
MUIRHEAD, E. ERIC HE-09765-1
MUIRHEAD, J. FRASER NB-05010-2
MUHLBOCK, OTTO CA-03431-8
MUHRER, MERLE E HE-07181-4
MULCAHY, DAVID L GM-12513-1
MULDER, DONALD G. HE-05054-6
MULFORD, DWIGHT J. AM-07054-3
MULHOLLAND, JOHN H. AM-01221-9
MULHOLLAND, JOHN H. AM-02785-7
MULHOLLAND, JOHN H. FR-00096-5
MULLAN, JOHN F. NB-05445-1
MULLER, CHARLOTTE F. HM-00378-2
MULLER, OTTO F. HE-08604-2
MULLER, OTTO H. GM-09811-3
MULLER, WILLIAM H., Jr. HE-02038-11
MULLER-EBERHARD, HANS J. AI-05617-3
MULLER-EBERHARD, URSULA HE-08660-2
MULLIGAN, B. EDWARD MH-11484-1
MULLINAX, PERRY F. CA-07350-2
MULLINS, LORIN J. NB-05585-1
MULLINS, LORIN J. NB-05846-1
MULROW, PATRICK J. AM-05954-4
MUMMA, RALPH O. AM-08481-2
MUNCK, ALLAN U. AM-03535-6
MUNDKUR, BALAJI GM-08326-4
MUNDT, J. ORVIN EF-00598-2
MUNGER, BRYCE L. GM-13599-1
MUNK, MORTON E. AI-04720-3
MUNRO, HAMISH N. CA-07087-2
MUNROE, J. SPENCER CA-08329-1
MUNSICK, ROBERT A. HD-00589-3
MUNSON, PAUL L. AM-01787-8
MUNSON, PAUL L. AM-07893-2
MUNSON, PAUL L. AM-08261-2
MUNTWYLER, EDWARD HE-01657-16
MUNTZ, JOHN A. AM-01060-9
MUNZ, FREDERICK W. NB-02588-6
MURACHI, TAKASHI GM-08714-4
MURAKAMI, SAKAE CA-06813-3
MURAKAMI, WILLIAM T. CA-06654-3
MURASHIGE, TOSHIO AM-08676-2
MURASHIGE, TOSHIO GM-12258-2
MURDAUGH, H. VICTOR, Jr. AM-09036-1
MURDOCK, BENNET B., Jr. MH-10882-1
MURGATROYD, DOROTHY GM-12062-2
MURPHEY, FRANCIS HE-04778-6
MURPHEY, FRANCIS NB-02380-8
MURPHEY, FRANCIS NB-05651-2
MURPHREE, HENRY B. MH-06713-2
MURPHREE, R.L. GM-11436-2

MURPHY, EDWIN D. CA-05985-4
MURPHY, GARDNER FR-05517-3
MURPHY, GARDNER MH-03924-5
MURPHY, GEORGE E. HE-01803-11
MURPHY, JOHN J. HE-09361-1
MURPHY, JOHN R. AM-02189-7
MURPHY, M. LOIS CA-06262-4
MURPHY, SHELDON D. ES-00084-1
MURPHY, SHELDON D. OH-00176-2
MURPHY, WILLIAM H. CA-06639-3
MURPHY, WILLIAM H. CA-07291-2
MURRAY, DANIEL H. FR-05454-3
MURRAY, DAVID G. HD-00437-3
MURRAY, FRANCIS E. AP-00291-2
MURRAY, IRWIN M. AI-05913-2
MURRAY, JOHN F. HE-08807-2
MURRAY, JOSEPH E. AI-04606-3
MURRAY, JOSEPH E. AI-04091-2
MURRAY, M. JOHN HE-06881-3
MURRAY, M. PAT CD-00052-2
MURRAY, MARGARET R. CA-03586-7
MURRAY, MARGARET R. CA-04588-7
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MURSTEIN, BERNARD I. MH-08405-2
MUSACCHIA, X.J. AM-07779-2
MUSCHEL, LOUIS H. AI-05454-2
MUSGRAVE, BARBARA S. MH-08156-2
MUSSEN, PAUL H. MH-03991-5
MUSTACCHI, PIERO CA-09751-6
MUSTARD, JAMES F. HE-04964-6
MUXFELDT, HANS AI-04221-4
MUXFELDT, HANS AI-06206-2
MYCEK, MARY J. GM-09040-4
MYER, JAMES S. MH-10349-1
MYERS, BARTON MH-10897-1
MYERS, EUGENE N NB-05288-1
MYERS, JACK GM-11300-2
MYERS, JACK D. FR-00056-4
MYERS, JEROME L. MH-03803-5
MYERS, NANCY A. HD-00898-7
MYERS, ORIE E., Jr. FR-00165-5
MYERS, PHILLIP S. AP-00263-3
MYERS, RAYMOND E. FR-05315-4
MYERS, RONALD E. NB-05178-2
MYERS, TERRELL C. CA-02856-9
MYERS, THEODORE B. NB-04768-4
MYERS, W.P. LAIRD CA-08007-1
MYRICK, RICHARD DH-00042-1
MYRVIK, QUENTIN N. AI-05663-2
MYRVIK, QUENTIN N. AI-05667-3
MYSELS, KAROL J. GM-10961-2
NABER, EDWARD C. GM-07108-5
NACE, GEORGE W. CA-06929-3
NACE, GEORGE W. GM-05409-8
NACHLAS, MARVIN M. HE-03223-7
NACHMANSOHN, DAVID NB-03304-4
NACHMIAS, JACOB NB-03682-4
NADELL, JUDITH HF-06756-3
NADLER, SAMUEL B. CA-05689-5
NAEGELE, JOHN A. GM-12265-1
NAEYE, RICHARD L. HE-06469-4
NAGANO, TOSHIO HD-00593-3
NAGASAWA, HERBERT T. CA-06432-4
NAGATAKI, SHIGENOBU AM-07889-2
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NAGEL, CHARLES W. EF-00066-3
NAGEL, CHARLES W. GM-08088-5
NAGER, GEORGE T. NB-02182-6
NAGLE, RAYMOND J. FR-05332-4
NAGLER, BENEDICT OM-02025-1
NAGLER, BENEDICT OM-02026-1
NAGYVARY, JOSEPH GM-12732-1
NAHEMOW, LUCILLE MH-08569-2
NAHINSKY, IRWIN D. MH-11107-1
NAHM, HELEN NU-00024-6
NAHM, HELEN NU-00072-2
NAHMIAS, ANDRE J. AI-04157-1
NAHUM, ALAN M AC-00168-2
NAIR, PADMANABHAN P. AM-02131-8
NAIR, PADMANABHAN P. HE-05208-3
NAIR, PADMANABHAN P. HE-05283-6
NAITOVF, ARTHUR AM-05045-5
NAJARIAN, JOHN S. AM-07574-3
NAJJAR, VICTOR A. AI-06191-1
NAKADA, HENRY I. AM-04740-4
NAKAMOTO, KAZUO GM-10072-3
NAKAMURA, CHARLES Y. HD-00908-5
NAKAMURA, TAKAO GM-09795-3
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NAKANO, JIRO HF-07334-4
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NAKANO, TATSUHIKO GM-09362-3
NAKAYAMA, FUMIO AM-07049-2
NALBANDIAN, JOHN DF-01766-3
NALBANDOV, ANDREW V. AM-06976-3
NANGERONI, LOUIS L. NB-03738-3
NANNEY, DAVID L. GM-07779-5
NAPIER, EDWARD A., Jr. AM-07354-3
NAPOLITANO, JOSEPH J. GM-12031-1
NAPOLITANO, LEONARD M. AM-09432-1
NARAHARA, HIROMICHI T. AM-04082-6
NARROD, STUART A. AM-08808-1
NASATIR, MAIMON GM-12346-1
NASH, CLINTON B. HE-08046-2
NASH, DENNISON J. MH-08316-1
NASH, DONALD J. HD-00148-3
NASH, FRANKLIN D. HE-08055-3
NASH, FRANKLIN D. HE-09339-1
NASH, HAROLD A. AM-09254-1
NASH, JUNE C. MH-10572-1
NASH, LOUIS R. OM-01828-2
NASHOLD, BLAINE S., Jr. NB-02793-5
NASON, ALVIN AM-05923-4
NASON, ALVIN GM-02332-15
NASSET, EDMUND S. AM-02837-6
NASTUK, WILLIAM L. NB-04988-2
NATELSON, SAMUEL AM-09956-1
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NATHAN, DAVID A. HE-07109-3
NATHANIEL, E.J.H. HF-09126-1
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NATHANS, DANIEL GM-10180-3
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National Biomedical Research Foundation Contr. NB-65-611
National Child Research Center Contr. MH-65-1
National Childrens Cardiac Hosp. Contr. DE-64-583
National Comm. for Children Contr. MH-65-18
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National Sci. Teachers Assn. Contr. CA-65-558
NATKIN, EUGENE DE-02065-2
NAU, CARL A. OH-00115-3
NAUNTON, RALPH F. NB-02806-5
NAWAR, WASSEF W. EF-00602-1
NAZARIAN, GIRAIR M. GM-10832-3
NEAL, A. LESLIE CA-08155-1
NEAL, JACK CA-08147-1
NEAL, ROBERT A. ES-00075-1
NEALON, THOMAS F., Jr. AM-04595-3
NECE, RONALD E. WP-00512-2
NECHAY, BOHDAN R. AM-09325-1
NECHELES, HEINRICH AM-04078-3
NEEDHAM, RODNEY MH-10161-1
NEEDLE, MARK A. AM-09086-1
NEEL, JAMES V. GM-09252-3
NEEL, JAMES V. GM-11863-1
NEEL, JAMES V MH-10575-1
NEELY, JAMES H. OM-00351-5
NEELY, WILLIAM A. GM-07181-4
NEELY, WILLIAM A. HE-07740-2
NEFF, ROBERT J. GM-04731-6
NEGHME, AMADOR R. AI-02300-7
NEIDHARDT, FREDERICK C GM-08437-5
NEILANDS, JOHN B AI-04156-4
NEILL, WILLIAM A. HF-08468-2
NEILSEN, IVAN R. CA-08256-1
NEIMARK, EDITH D. MH-11026-1
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NELLHAUS, GERHARD NB-04314-4
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NELSON, BRUCE W. WP-00651-2
NELSON, CLIFFORD V HF-09062-1
NELSON, DAVID A. GM-13117-1
NELSON, DON H. AM-04131-6
NELSON, DONALD B. CC-00030-4
NELSON, E. CLIFFORD AI-03826-4
NELSON, ELDON C. AM-09191-1
NELSON, ERLAND CA-08267-1
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NELSON, E. EUGENE EF-00076-3
NELSON, GEORGE H. HD-00438-3
NELSON, JOHN B. CA-06615-3
NELSON, JOHN D. AI-04942-2
NELSON, JOHN W. MH-06533-3
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NELSON, RALPH A. AM-06446-4
NELSON, ROBERT S. CA-05673-3
NELSON, RUSSELL M. HE-09634-1
NELSON, THOMAS E., Jr. AM-08115-2
NELSON, WALTER L. AM-01316-14
NELSON, WILLARD H. MH-01856-1
NEMER, MARTIN J. CA-05936-4
NEMERSON, YALE HE-09057-1
NEMETH, ANDREW M. HD-00375-9
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NENNO, ROBERT P. OM-01725-1
Nepera Chemical Co. Contr. HD-65-566
NES, WILLIAM R. AM-09100-1
NESHEIM, MALDEN C. AM-06850-3
NESTER, EUGENE W. GM-09848-4
NETER, ERWIN AI-00658-11
NEUBAUER, PETER B. HD-01625-1
NEUBERGER, ALBERT GM-08171-5
NEUFELD, HENRY N. HE-06057-4
NEUGARTEN, BERNICE L. MH-08062-2
NEUHAUS, FRANCIS C. AI-04615-4
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NEUHAUS, OTTO W. AM-06705-3

NEUHOLD, JOHN M. WP-00768-1
NEUMANN, META A. NB-05783-1
NEURATH, HANS GM-04617-9
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NEURINGER, CHARLES MH-11257-1
NEUSTEIN, HARRY B. HE-08611-2
NEVE, RICHARD A. HE-08627-2
NEVILL, WILLIAM A. CA-06852-3
NEVILLE, JOHN F., Jr. HF-07092-3
NEVIN, JOHN A. MH-08515-2
NEVINNY-STICKEL, HANS B. CA-06260-4
NEVINS, RALPH G. OH-00007-6
NEW, MARIA I. HD-00072-2
New Jersey Col. Med. Contr. CA-62-441
New Jersey Dept. of Inst. Contr. MH-65-96
New York Academy Med. Contr. MH-65-1055
New York Academy Sciences Contr. HD-65-56
New York State Dept. Soc. Welfare Contr. NB-65-599
New York Univ. Med. Cr. Contr. AI-65-638
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NEWBERNE, PAUL M. AM-07136-3
NEWBIGGING, P. LYNN HD-00952-3
NEWBURGH, R.W. AI-01098-10
NEWBURGH, ROBERT W. HD-01305-9
NEWCOMB, THEODORE M. MH-04964-2
NEWCOMB, THOMAS F. HF-04967-6
NEWCOMER, EARL H. GM-09800-3
NEWELL, BERNARD A. OM-01959-1
NEWELL, KENNETH W. CC-00094-1
NEWELL, KENNETH W. CC-00114-2
NEWELL, FRANK W. NB-03216-5
NEWILL, VAUN A. AM-06399-4
NEWLIN, HARRISON E. FF-00652-1
NEWMAN, BERTHA L. MH-04855-4
NEWMAN, ELLIOT V. FR-00095-5
NEWMAN, ELLIOT V. HE-08195-3
NEWMAN, MELVIN M. HF-08444-2
NEWMAN, MELVIN S. CA-05480-5
NEWMAN, MELVIN S. CA-07394-2
NEWMARK, MARJORIE Z. HE-08672-2
NEWSOM, LEO D. AI-05881-2
NEWSTEIN, HERMAN AP-00335-1
NEWTON, D. GRANT HD-00369-3
NEWTON, NILES HD-01583-1
NEWTON, THOMAS H. CA-08336-1
NEWTON, WILLIAM A., Jr. CA-03750-8
NEWTON, WILLIAM A., Jr. CA-06933-3
NEYMAN, JERZY GM-10525-2
NICHAMAN, MILTON Z. HE-09196-1
NICHOL, JAMES C. GM-10841-7
NICHOLLS, PETER GM-11691-2
NICHOLS, DARYL G. MH-08855-1
NICHOLS, GEORGE, Jr. AM-00854-11
NICHOLS, JOHN M. AM-02767-7
NICHOLS, JOHN R. MH-02904-6
NICHOLS, WARREN W. CA-03845-8
NICHOLSON, HAYDEN C. FR-05363-4
NICHOLSON, JOHN F. AM-09346-1
NICKEL, VERNON L. AM-07550-6
NICKERSON, JOHN L. HE-08615-2
NICKERSON, THOMAS A. EF-00094-3
NICKERSON, WALTER J. AI-00251-13
NICKLAS, R. BRUCE GM-08480-5
NICKON, ALEX GM-06304-6
NICKON, ALEX GM-09693-4
NICOLAIDES, NICHOLAS AM-10010-1
NICOLAUS, RODOLFO A. CA-05220-5
NICOLL, PAUL A. HE-08618-2
NIDEN, ALBERT H. HE-06918-3
NIEDERMEIER, WILLIAM AM-07888-2
NIEDERPRUEM, DONALD J. AI-04603-4
NIEFORTH, KARL A. MH-08898-2
NIELSEN, SIGURD O. GM-13203-1
NIELSON, REED R. AM-05910-3
NIEMER, WILLIAM T. NB-01046-10
NIFFENEGGER, ORA E. FR-05437-4
NIGAGLIONI, ADAN FR-00063-3
NIGAGLIONI, ADAN FR-05419-4
NIKAIDO, HIROSHI AI-05729-2
NIKIFORUK, GORDON DE-02284-1
NIKITOVITCH-WINER, MIROSLAVA B. AM-05086-5
NIKODIJEVIC, BRANISLAV TW-00076-1
NILSSON, B. INGA M. HE-07066-3
NIMITZ, M. AQUINAS, SISTER GM-12312-1
NISHIKAWARA, MARGARET T. AM-07265-3
NISHIMURA, EDWIN T. CA-06591-3
NISHIMURA, HIDEO HD-00074-2
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NISHIMURA, JONATHAN S. AI-06366-1
NISHIMURA, NAGAO AM-07272-2
NISONGER, HERSCHEL W. HD-01452-1
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NISONOFF, ALFRED AI-06281-1
NITOWSKY, HAROLD M. AM-00494-12
NIX, THOMAS E. GM-10255-3
NOALL, MATTHEW W. AM-06913-3
NOBACK, CHARLES R. NB-03473-4
NOBLE, ERNEST P. MH-10656-1
NOBLE, MERRILL E. HD-00956-3
NOBLE, VINCENT E. WP-00794-1
NOBLES, LEWIS AI-04701-3
NOBLES, LEWIS CA-08131-1
NOBLES, WILLIAM L. CA-04654-6
NODA, HARUHIKO AM-07683-2
NODA, HARUHIKO HE-06041-4
NODA, LAFAYETTE HF-03599-R
NODINE, CALVIN F. MH-11282-1
NOEHREN, THEODORE H. HE-02225-9
NOELL, WERNER K. NB-06027-1
NOLAN, CARSON Y. NB-03129-5
NOLAN, CARSON Y. NB-04870-2
NOLAND, WAYLAND E. CA-04073-7
NOLF, LUTHER O. AI-05666-2
NOLL, HANS AI-06672-1
NOLTE, WILLIAM A. DE-01800-3
NOLTMANN, ERNST A. AM-07203-3
NOMURA, MASAYASU AI-05641-2
NORCIA, LEONARD N. AM-07237-3
NORDLIE, FRANK G. WP-00530-2
NORDLIE, ROBERT C. AM-07141-2
NORDMAN, CHRISTER E. HE-08612-2
NORDSCHOW, CARLETON D. AM-05680-3
NORKIN, STANISLAV A. AM-06849-3
NORMAN, ALEX CA-06794-3
NORMAN, ANTHONY W AM-09012-1
NORMAN, JAMES O. AI-02365-7
NORMAN, JOE R. AM-07336-2
NORMAN, PHILIP S. AI-04866-3
NORMAN, PHILIP S. HE-04117-7
NORMAN, TOM D. HE-06432-5
NORMAN, WARREN T. MH-07195-2
NORRIS, DALE M. AI-06195-2
NORRIS, FORBES H., Jr. NB-03734-4
NORRIS, KENNETH S. GM-11959-2
NORRIS, KENNETH S. NB-05427-1
NORTH, WHEELER, J. WP-00697-1
North Carolina Dept. Mental Health Contr. MH-65-24
North Carolina Univ. Contr. CA-64-20
North Carolina Univ. Contr. NB-64-586
North Dakota State Dept. Hlth. Contr. MH-65-574
NORTHEY, WILLIAM T. AI-03458-5
NORTON, DORITA A. CA-04183-4
NORTON, EDWARD W.D. NB-05051-2
NORTON, FRANCIS J. AP-00432-1
NORTON, JAMES FR-00162-1
NORTON, MARCUS T. NB-01006-11
NORTON, SCOTTY J. AM-07599-2
NORTON, STATA MH-07278-3
NORTON, WILLIAM T. NB-02476-6
Norwegian Public Hlth. Contr. CA-64-499
NORWOOD, WILLIAM F. GM-09327-4
NOSSAL, GUSTAV J. AI-03958-5
NOSSEL, HYMIE L. HE-08631-2
NOTMAN, RALPH R. OM-01421-2
Notre Dame Univ. Contr. CA-65-1018
NOVACK, PAUL HE-07469-3
NOVAK, LADISLAV P. HD-01195-1
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NOVAL, JOSEPH J. AM-07801-2
NOVICK, AARON AI-02807-7
NOVICK, ALVIN MH-05430-4
NOVIKOFF, ALEX B. CA-06576-3
NOVIN, DONALD NB-05239-2
NOWELL, PETER C. CA-04659-6
NOWINSKI, WIKTOR W. HD-00135-14
NOWINSKI, WIKTOR W. HE-07961-3
NOWLIS, DAVID P. MH-11751-1
NOWOTNY, ALOIS H. AI-05581-4
NOYES, HAROLD J. FR-05336-4
NOYES, ROBERT W. HD-00673-3
NOYES, WARD D. HE-06126-5
NOYES, WILBUR F. CA-04555-7
NUENKE, RICHARD H. GM-11068-3
NUGENT, WARREN F. AM-09050-1
NULSEN, FRANK E. NB-00779-11
NUMA, SHOSAKU AM-08745-2
NUNGESTER, W.J. AI-00619-12
NUNGESTER, WALTER J. CA-08061-1
NUNNALLY, DAVID A. GM-10364-3
NUNNEMACHER, RUDOLPH F. NB-02664-6
NUNNEMACHER, RUDOLPH F. NB-03989-4
NUSBAUM, MOREYE AM-07515-2
NUSBAUM, MOREYE AM-08136-2
NUSSBAUM, MURRAY HE-07491-3
NUTINI, LEO G. CA-06642-3
NYBORG, WESLEY L. GM-08209-4
NYBORG, WESLEY L. GM-08775-4
NYC, JOSEPH F. GM-10935-3
NYE, ROBERT E., Jr. HE-03302-8
NYE, WILLIAM H.R. AM-04792-5
NYE, WILLIAM N. GM-09240-4
NYHAN, WILLIAM L. AM-07929-3
NYHAN, WILLIAM L. CA-08080-1
NYHAN, WILLIAM L. HD-00127-2
NYHAN, WILLIAM L. HD-01073-1
NYHUS, LLOYD M. AM-01577-8
NYHUS, LLOYD M. AM-02187-7
NYHUS, LLOYD M. AM-09169-1
OATES, JOHN A. HE-08668-2
OBERHELMAN, HARRY A., Jr. AM-04487-6
O'BRIEN, DONOUGH HD-00329-8
O'BRIEN, EDWARD E. FS-00019-1
O'BRIEN, JOHN S. HE-08429-2
O'BRIEN, JOHN S. NB-04136-3
O'BRIEN, REGINA HD-01832-1
O'BRIEN, RICHARD D. GM-07804-5
O'BRIEN, THOMAS F., Jr. AM-07050-3
O'BRIEN, WILLIAM M. OM-01826-1
OBRIST, PAUL A. MH-07995-2
OBRIST, WALTER D. HD-00366-3
OCHOA, SEVERO AM-01845-8
OCHOA, SEVERO AM-08953-1
OCHS, SIDNEY MH-04815-4
OCHS, SIDNEY NB-01993-6
Ochsner A. Med. Fdn. Contr. CA-64-23
O'CONNOR, DONALD J. WP-00677-2
O'CONNOR, G. RICHARD NB-03960-4
O'CONNOR, ROD GM-11909-2
O'CONOR, VINCENT J., Jr. HE-06652-3
ODA, TAKUZO GM-10538-3
ODEGARD, ORNULV MH-06622-3
O'DELL, BOYD L. HD-01166-7
ODELL, GERARD B. AM-07156-3
ODLAND, GEORGE F. AM-08368-9
ODLAND, LURA M. AM-03345-5
ODOM, GUY L. NB-02369-9
ODOM, GUY L. NB-04368-3
ODOM, RICHARD D. MH-11442-1
O'DONOGHUE, DON H. AM-02789-4
ODOR, D. LOUISE HD-00606-3
ODUM, EUGENE P. HE-08294-2
OESTER, YVO T. GM-09045-4
OESTER, YVO T. NB-03727-3
OFENGAND, JAMES GM-11506-2
OFFER, DANIEL MH-08714-2
OFFNER, FRANKLIN F. NB-05317-2
OFNER, PETER AM-06602-3
OGDEN, EUGENE C. AP-00081-7
OGDEN, THOMAS E. NB-04135-3
OGILVIE, JAMES W., Jr. HE-04977-6
OGINSKY, EVELYN L. AI-01837-7
OGLE, KENNETH N. NB-01637-8
OGLE, KENNETH N. NB-01852-7
OGLE, KENNETH N. NB-02003-7
OGURA, JOSEPH H. HE-06084-5
OGURA, JOSEPH H. NB-03408-4
Ohio State Univ. Contr. CA-64-88
Ohio State Univ. Contr. CA-64-555
Ohio State Univ. Res. Fdn. Contr. CA-65-1001
OHLER, EDWIN A. HE-03875-6
OHNO, SUSUMU CA-05138-6
OJEMANN, ROBERT G. HE-04769-6
OJEMANN, ROBERT G. NB-05769-1
O'KELLY, LAWRENCE I. MH-04853-4
OKEN, DONALD E. AM-08695-1
OKITA, GEORGE T. CA-07930-1
OKITA, GEORGE T. HE-08749-3

ALPHABETICAL LISTING OF INVESTIGATORS

O'KONSKI, CHESTER T. GM-12082-1
OKUN, DANIEL A. WP-00131-1(
OKUN, EDWARD NB-01789-7
OKUN, RONALD HE-09594-1
OKUNUKI, KAZUO GM-05871-7
OLCOTT, HAROLD S. FF-00600-1
OLCOTT, HAROLD S. GM-09899-4
OLDENDORF, WILLIAM H. NB-02575-5
OLDENDORF, WILLIAM H. NB-04745-2
OLDENDORF, WILLIAM H. NB-06246-1
OLDS, JAMES MH-02839-7
OLDS, JAMES MH-06195-4
O'LEARY, JAMES NB-04971-1
O'LEARY, JAMES L. NB-04513-2
O'LEARY, WILLIAM M. AI-03327-6
OLIN, WILLIAM H. DE-01841-3
OLIVE, LINDSAY S. AI-04425-2
OLIVER, CLARENCE P. AM-08331-1
OLIVER, CLARENCE P. HE-04516-6
OLIVER, DOUGLAS L. MH-10159-1
OLIVER, JEAN HF-07973-3
OLIVER, THOMAS K., Jr. HD-00747-3
OLIVER-GONZALEZ, JOSE AM-05691-4
OLIVER-GONZALEZ, JOSE CC-00082-4
OLOFSON, ROY A. GM-09317-4
OLSON, CARL CA-04627-7
Olson Contract Co. Contr. CA-65-1015
OLSON, JAMES A. AM-01278-9
OLSON, JOHN VICTOR FR-05344-4
OLSON, KENNETH B. CA-03365-9
OLSON, KENNETH B. CA-06594-3
OLSON, LEROY J. AI-02732-7
OLSON, NORMAN F. FF-00204-5
OLSON, NORMAN O. AM-06040-4
OLSON, ROBERT E. AM-02588-7
OLSON, ROBERT E. AM-03737-6
OLSON, ROBERT E. AM-05496-3
OLSON, ROBERT E. HE-01422-13
OLSON, ROBERT E. HF-06211-4
OLSON, ROBERT E. HE-07468-3
OLSON, STANLEY W. FR-00129-2
OLSON, STANLEY W. FR-00134-1
OLSON, STANLEY W. FR-05425-4
OLSON, THEODORE A. WP-00320-3
OLSON, THEODORE A. WP-00828-1
OLWIN, JOHN H. HF-03940-7
OMACHI, AKIRA GM-11430-2
O'MELIA, CHARLES R. WP-00382-3
ONCLEY, J.L. HF-07696-3
ONCLEY, J. LAWRENCE GM-12871-1
ONDARZA, RAUL N. AM-06225-3
O'NEAL, ROBERT M. HF-06964-4
O'NEILL, FRANCIS J. OM-02075-1
O'NEILL, JOHN J. MH-05317-4
ONESTI, GADDO HF-09146-1
ONLEY, JUDITH W. NB-04886-3
ONSAGER, LARS GM-13190-1
OPITZ, JOHN M. HD-00995-1
OPPENHEIMER, ENID T. CA-01620-14
OPPENHEIMER, JACK H. NB-03000-5
OPPENHEIMER, SONYA OM-01174-3
O'RAHILLY, RONAN NB-04426-3
ORBACH, JACK MH-03830-6
ORBISON, J. LOWELL AM-08872-7
ORBISON, J. LOWELL GM-11262-1
ORCHIN, MILTON AM-04466-3
Ord-Marine Engr. Co. Contr. DRS-OD-65-62
ORDAL, Z. JOHN FF-00126-6
ORDIN, LAWRENCE AP-00213-3
ORDY, JOSEPH M. MH-04956-5
O'REILLY, ROBERT A. HF-08058-3
Oregon Comm. for Blind Contr. NB-65-33
Oregon State B. and Cntl. Contr. MH-65-595
Oregon State Univ. Contr. CA-63-44
ORESKES, IRWIN AM-06380-3
ORGELL, WALLACE H. GM-11772-1
ORKIN, LOUIS R. HE-02762-8
ORLAND, FRANK J. DE-02262-1
ORLANDO, ROBERT MH-08844-2
ORLOFF, MARSHALL J. AM-07315-4
ORLOFF, MARSHALL J. AM-07511-4
ORNE, MARTIN T. MH-11028-1
ORNSTEIN, LEONARD AM-08158-2
ORNSTEIN, LEONARD GM-07293-6
ORNSTEIN, LEONARD GM-09195-4
O'ROURKE, J. NB-03284-5
O'ROURKE, J. NB-04333-3

ORPET, RUSSEL E. MH-08666-1
ORR, CLYDE, Jr. AP-00345-2
ORR, CLYDE, Jr. AP-00351-1
ORR, CLYDE, Jr. AP-00373-1
ORR, CLYDE, Jr. OH-00130-3
ORR, DAVID B. MH-07274-3
ORR, DAVID B. MH-10819-1
ORR, RICHARD H. GM-09166-4
ORSINI, MARGARET W. HD-00267-7
ORTEGA, LOUIS G. AM-08597-2
ORTEGA, PAUL HD-00838-2
ORTEN, ALINE U. AM-00693-10
ORTIZ, EVELINA AM-03628-6
ORTIZ-ORTIZ, ANTONIO AM-07595-2
ORTMAN, ROBERT A AM-07204-3
ORTTUNG, WILLIAM H. GM-11683-2
OSAWA, SYOZO GM-12045-2
OSBORN, MARGARET O. AM-04738-5
OSBORN, MARGARET O. AM-08603-1
OSBORNE, JAMES W. RH-00021-11
OSGOOD, CHARLES E. MH-07705-3
OSKAMP, STUART MH-11505-1
OSLER, ABRAHAM G. AI-03151-6
OSLER, SONIA F. HD-00754-2
OSMOND, HUMPHRY F. FR-05558-3
OSNOS, ROBERT J. B OM-01157-3
OSSERMAN, KERMIT E. NB-04087-3
OST, JOHN W P HD-00951-3
OSTBY, B. NYGAARD DE-02021-2
OSTEEN, W. KEITH HD-01520-1
OSTEEN, W. KEITH NB-03609-4
OSTER, GISELA K. GM-10684-3
OSTERBERG, KENNETH A. NB-02566-6
OSTERHOUT, SUYDAM AI-04827-3
OSTERLAND, C. KIRK AM-08490-2
OSTFELD, ADRIAN M. NB-04182-3
OSTROW, J. DONALD AM-06840-3
OSTWALD, ROSEMARIE AM-08480-2
OSWALD, WILLIAM J. WP-00026-4
OTIS, LEON S. MH-08311-2
OTT, RICHARD L. AI-03606-5
OTTENSTEIN, DONALD OM-01092-3
OTTOLENGHI, ABRAMO C. AI-04601-1
OUDEA, PAUL TW-00081-2
OUTKA, DARRYLL E. GM-11126-2
OUTWATER, JOHN O. AC-00212-1
OVADIA, JACQUES GM-12716-1
OVARY, ZOLTAN AI-03075-6
OVERALL, JOHN E. FR-00024-1
OVERBECK, HENRY W. HF-09436-1
OVERBERGER, C.G. AI-01425-11
OVERBERGER, CHARLES G. GM-12599-1
OVERGAARD-HANSEN, KAY TW-00085-2
OVERMAN, RICHARD R. HF-07414-3
OVERMAN, RICHARD R. HE-09992-1
OVERTON, JANE H. HD-00223-4
OWEN, CHARLES A. AM-03932-6
OWEN, JOHN A., Jr. AM-04036-5
OWEN, RAY D. GM-06965-6
OWEN, RAY D. HF-03103-9
OWEN, WILLIAM B AI-00931-9
OWENS, ALBERT H., Jr. CA-06973-3
OWENS, GUY NB-02940-5
OWENS, GUY NB-04631-3
OWENS, ROBERT G. FF-00663-1
OWRE, HARDING B. GM-12541-1
OXENDER, DALE L. GM-11024-3
OZZELLO, LUCIANO CA-08312-1
PAASONEN, MATTI K. MH-05832-3
PACE, DONALD M. AP-00092-7
PACE, NELLO GM-09268-3
PACE, NELLO GM-11048-3
PACE, WILLIAM G. AM-04399-4
PACK, MERRILL R. AP-00341-2
PACKER, LESTER AM-04438-3
PADDISON, RICHARD M. NB-02383-8
PADGETT, GEORGE A. AI-06591-1
PADMAVATI, SIVARAMA HE-06232-3
PADY, STUART M. AP-00080-9
PADYKULA, HELEN A HD-01026-1
PADYKULA, HELEN A. HD-01317-1
PAECHT, MELLA GM-07852-5
PAES DE CARVALHO, ANTONIO HE-08923-2
PAFF, GEORGE H. HF-03565-8
PAFFENBARGER, GEORGE C. DE-01577-3
PAFFENBARGER, GEORGE C. DF-01659-3
PAGE, ARTHUR R. AM-05830-4
PAGE, ERNEST W. HD-00470-9
PAGE, IRVINE H. HF-03072-8
PAGE, IRVINE H. HE-04007-5
PAGE, IRVINE H. HF-04836-4
PAGE, JAMES D. OM-00318-4

PAGE, LOT B. HE-08896-2
PAGLIN, MORTON CH-00069-2
PAIGEN, KENNETH AI-03027-6
PAIGEN, KENNETH CA-04090-7
PAIK, WOON K. AM-06094-3
PAINE, F. RODNEY HM-00385-2
PAINE, RICHMOND S. NB-04945-2
PAINE, RICHMOND S. NB-05201-2
PAIVA, ANTONIO C.M. TW-00087-1
PALADE, GEORGE E. HF-05648-5
PALAY, SANFORD L. NB-03659-4
PALERMO, DAVID S. HD-00961-1
PALMER, CATHERINE G. HD-00358-3
PALMER, DAN OM-01815-2
PALMER, HOWARD R. AM-00774-11
PALMER, JOHN D. HF-09006-2
PALMER, ROBERT M AM-04616-5
PALMER, ROGER F AM-08589-2
PALMER, WALTER L. CA-09712-6
PALSSON, PALL A. NB-02425-5
PALUBINSKAS, ALPHONSE J. AM-09120-1
Pan American Health Organization Contr. HD-65-640
Pan American Health Organization Contr. MH-64-503
Pan American Health Organization Contr. OIR-65-89
PANDE, SHASHI K. MH-10485-2
PANNER, BERNARD J. AM-08947-1
PANOFSKY, HANS A. AP-00224-2
PANOS, CHARLES AI-04495-4
PANOS, CHARLES AI-04543-4
PANSKY, BEN CA-05386-4
PAOLETTI, RODOLFO NB-04202-2
PAOLINO, RONALD M. MH-11748-1
PAPACONSTANTINOU, JOHN NB-04455-3
PAPADOPOULOS, NICK M. NB-03911-3
PAPERMASTER, BENJAMIN W. AI-06501-1
PAPIAN, WILLIAM N. FR-00218-1
PAPPAS, GEORGE D NB-02314-6
PAPPAS, GEORGE D. NB-03448-4
PAPPAS, SOCRATES P GM-12306-1
PAPPENHAGEN, JAMES M. WP-00137-10
PAPPENHEIMER, JOHN R. NB-03615-4
PAPPER, EMANUEL M. GM-09069-3
PAPPER, SOLOMON HF-07665-3
PAQUETTE, LEO A. GM-11975-2
PAQUIN, ALBERT J., Jr. HD-00857-2
PARAD, HOWARD J. OM-02020-1
PARADISE, RAYMOND R. HF-07718-3
PARADISE, RAYMOND R. HE-09288-1
PARDEE, ARTHUR B. AI-04409-5
PARDUCCI, ALLEN HD-00923-4
PARDUE, HARRY L. GM-10681-2
PAREIRA, MORTON D. HF-08626-2
PARFITT, GILBERT JOHN DF-01941-2
PARK, CHARLES R. AM-07462-2
PARK, JAMES T. AI-05090-4
PARK, JANE H. GM-07884-5
PARK, LEE C MH-04732-5
Parke, Davis and Co. Contr. AI-62-841
Parke, Davis and Co. Contr. CA-61-4320
Parke, Davis Co. Contr. GM-65-1069
PARKER, ADAH D. CD-00148-1
PARKER, BRENT M. HE-05880-5
PARKER, CECIL D. WP-00321-3
PARKER, CHARLES D. NB-04029-4
PARKER, CHARLES J., Jr. AM-05311-4
PARKER, CHARLES W. AI-04646-4
PARKER, FRANK AM-08569-1
PARKER, FRANK S. AM-08817-1
PARKER, HAZEL D. AI-02822-7
PARKER, JULIUS G. AM-04586-3
PARKER, PATRICK L. WP-00204-4
PARKER, RALPH C., Jr. HM-00266-1
PARKER, RICHARD A. WP-00903-4
PARKER, RICHARD B. DE-01784-3
PARKER, ROBERT F. AI-06145-2
PARKS, LEO W AM-05190-5
PARKS, LEO W GM-04432-6
PARKS, ROBERT E., Jr. CA-07340-2
PARLOW, ALBERT F. AM-06388-4
PARMELEE, ARTHUR H., Jr. HD-00351-4
PARMETER, JOHN R., Jr. AP-00409-1
PARNELL, JEROME P. GM-10820-3
PARNICKY, JOSEPH J. OM-02078-1
PARODI, ARMANDO S. AI-04753-3
PARPART, ARTHUR K. FR-05547-3
PARPART, ARTHUR K. GM-04359-10

PARRISH. ALVIN E. HE-03732-7
PARRISH. HENRY M. GM-11268-2
PARROTT. ROBERT H. AI-01528-9
PARROTT. ROBERT H. HE-05550-3
PARRY. ROBERT W CA-07989-1
PARRY. WILLIAM L. HE-08737-2
PARSHLEY. MARY S. CA-08009-1
PARSONNET. VICTOR HE-09651-1
PARSONS. OSCAR A. NB-02507-5
PARSONS. OSCAR A. NB-05359-1
PARSONS. OSCAR A. NB-05797-1
PARSONS. WILLIAM AM-00893-10
PARSONS. WILLIAM B., Jr. HE-03787-7
PARTANEN. CARL R. CA-06251-4
PARTCH. RICHARD E. GM-11593-2
PARTHE. ERWIN DE-02135-1
PARTLOW. R C OM-01680-2
PARTRIDGE. LLOYD D. NB-04462-3
PASCALE. LUKE R. HE-08162-2
PASCHKE. JOHN D. AI-04565-3
PASEWARK. RICHARD A. OM-02089-1
PASSANO. LEONARD M. NB-06009-1
PAST. WALLACE L. AM-07567-5
PASTO. DANIEL J. CA-07194-2
PATAU. KLAUS HD-00338-5
PATCHORNIK. ABRAHAM AM-05098-4
PATE. JAMES HE-08135-2
PATEK. ARTHUR J., Jr. AM-06811-3
PATEK. PAUL R. AM-08275-2
PATEK. PAUL R. AM-08276-2
PATERSON. J.C.S. FR-05444-4
PATERSON. J.C.S. TW-00143-5
PATERSON. PHILIP Y. NB-03104-5
PATON. BRUCE C. HE-02710-9
PATON. BRUCE C. HE-04892-6
PATRICK. RUTH WP-00475-2
PATT. DONALD I. HE-06214-4
PATTEE. PETER A. AI-06647-1
PATTERSON. A. L. AM-02884-16
PATTERSON. CLAIR C. AP-00271-3
PATTERSON. ELIZABETH K. CA-03102-9
PATTERSON. GERALD R. MH-08009-2
PATTERSON. JAMES F. AM-02547-7
PATTERSON. JOHN L., Jr. HE-03361-8
PATTERSON. JOHN M. AI-05671-1
PATTERSON. JOHN W. AM-08344-2
PATTERSON. ROBERT A. HE-04923-6
PATTERSON. WILLIAM L. OM-01698-1
PATTON. HARRY D. NB-00395-12
PATTON. ROBERT A. MH-07227-3
PATTON. SELMA H. MH-10519-1
PATTON, STUART HE-03632-7
PATWARDHAN. V. N. AM-06735-3
PATZ. ARNALL NB-02198-6
PAUDLER. WILLIAM W CA-07917-1
PAUL. BENJAMIN D. GM-13141-1
PAUL. IAIN C. GM-12470-1
PAUL. JOHN CA-05855-4
PAUL. JOHN R CC-00023-5
PAUL. ROBERT E., Jr. CA-07325-2
PAUL. WILLIAM H. AP-00214-2
PAULE. WENDELIN J. HE-04988-5
PAULSEN. C. ALVIN AM-05436-4
PAULSEN. ELSA P. AM-06535-3
PAULSEN. ELSA P. HD-00139-9
PAULUS. HENRY GM-09396-4
PAULY. JOHN E. AM-08310-2
PAVALKO. RONALD M. NU-00175-1
PAVAN. CRODOWALDO GM-11493-2
PAVLIK. WILLIAM B. MH-07844-2
PAVLIK. WILLIAM B. MH-11774-1
PAX. RALPH A. HE-09718-1
PAYNE. ANTHONY M-M. FR-05443-4
PAYNE. MARION F. OM-00940-3
PAYNE. ROSE O. HE-03365-8
PEABODY. DEAN MH-06094-3
PEACOCK. ERLE E., Jr. AM-03664-6
PEACOCK. L.J. HD-00946-3
PEAKALL. DAVID B. GM-11258-2
PEANASKY. ROBERT J. GM-08825-4
PEARCE. MORTON L. HE-08827-2
PEARCE. MORTON L. HE-08931-2
PEARLMAN. DAVID S. AI-06787-1
PEARLMAN. JEROME T. NB-05176-2
PEARLMAN. WILLIAM H. CA-05299-4
PEARSE. WARREN H. CA-07365-2
PEARSON. A M. EF-00212-5
PEARSON. ANTHONY A. HD-00186-11
PEARSON. CARL M. AM-01286-9
PEARSON. ERMAN A. WP-00830-1
PEARSON. HOWARD A. HE-07017-4
PEARSON. OLOF H. CA-05197-6

PEARSON. ROGER W. AM-05794-4
PEARSON. WILLIAM N. AM-07709-2
PEASE. DANIEL C. HE-01770-14
PEASE. DANIEL C. NB-00284-12
PEASTREL. AUGUST L. MH-08071-2
PEASTREL. AUGUST L. MH-11896-1
PECHET. MAURICE M. AM-01156-9
PECILE. ANTONIO HD-01109-1
PECK. DAVID NB-05843-1
PECK. ROBERT F. MH-06823-3
PECKHAM. BEN M. GM-07838-5
PECORA. LOUIS J. AM-07470-2
PEDEN, JAMES C., Jr. HE-08129-2
PEDEN, VIRGINIA A. AM-08426-2
PEDERSON. CARL S. EF-00031-4
PEELER. DUDLEY F., Jr. NB-04850-2
PEGG. FRED G. OM-00488-5
PEIRCE, E. CONVERSE HE-08326-2
PEIRCE. EDMUND C., II HE-07925-3
PEIRCE, EDMUND C., II HE-09253-1
PEISACH. JACK GM-10959-3
PELLEGRINO. EDMUND D. FR-00158-1
PELLEGRINO. JOSE AI-05917-2
PELLETIER. S. WILLIAM GM-10921-3
PELLETIER. S. WILLIAM GM-10966-3
PELOSI. JOHN J. OM-00938-3
PELTIER. LEONARD F. HD-00619-2
PELTIER. LEONARD F. HE-03592-8
PELZ. DONALD C. MH-08624-1
PENALOZA, DANTE HE-06910-4
PENCHANSKY. ROY HM-00304-1
PENDALL. RUDOLF J. HM-00244-1
PENDLETON. ROBERT C. RH-00030-4
PENEFSKY. HARVEY S AM-08848-1
PENHOS. JUAN C. AM-09196-1
Penna. Citizens Cncl. Contr. MH-65-83
PENNA. MARIO TW-00052-3
PENNEL. BILLY M. DE-02066-2
PENNER, ABRAHAM AM-00584-18
PENNER. HELLMUT P. GM-11974-2
PENNER. JOHN A. HE-08398-2
PENNEY. DAVID P. AM-09561-1
PENNEY. GAYLORD W. OH-00094-7
PENNEYS. RAYMOND HE-04906-5
PENNEYS. RAYMOND HE-05001-5
PENNIALL. RALPH HE-06088-4
PENNINGROTH. PAUL W. OM-01225-1
PENNYPACKER. HENRY S., Jr. MH-08887-2
PENROSE. L.S. HD-00500-5
PENSKY. JACK AI-06349-1
PENTEL. LEON DE-01847-2
PENTSHEV. ANGEL NB-02275-6
PEPE. FRANK A. AM-04806-5
PEPPER, JAMES H. EF-00331-3
PERERA. GEORGE A. HE-04020-6
PERETZ. E. MH-10523-1
PEREZ-REYES. MARIO MH-06658-4
PEREZ-MESA, CARLOS CA-07738-2
PEREZ-NUNEZ. TERESA HE-08407-1
PEREZ-SANTIAGO. ENRIQUE AM-02776-7
PERGAMENT. EUGENE HD-01038-1
PERIC-GOLIA. LUDVIK AM-08941-1
PERILLIE, PASQUALE E. HE-07616-2
PERIMANN. GERTRUDE E. AM-02449-7
PERKERIS. CHAIM L. GM-09243-2
PERKINS. CHARLES C., Jr. HD-00906-5
PERKINS. DAVID D. AI-01462-9
PERKINS. DONOVAN J. FR-05542-3
PERKINS. EDWARD G. EF-00225-8
PERKINS. HERBERT A. HE-05652-5
PERKINS, HERBERT A. HE-07494-3
PERKINS. JOHN F., Jr. HE-05516-5
PERKINS. RALPH L. HM-00443-1
PERKOFF. GERALD T. AM-08377-2
PERL. EDWARD R. NB-01576-8
PERL. JOHN I. NB-03715-3
PERL. WILLIAM HE-07482-3
PERLGUT. L.E. AM-09212-1
PERLMUTT. JOSEPH H. HE-02457-9
PERLMUTTER. BEATRICE NU-00116-2
PERLMUTTER. FELICE OM-00793-3
PERLMUTTER. MARTIN AM-05325-3
PERLOFF. JOSEPH K. HE-07281-2
PERLOFF. JOSEPH K. HE-08390-2
PERLOFF. JOSEPH K HE-09093-1
PERLOFF. WILLIAM H. AM-05448-3
PERMUTT. SOLBERT AP-00208-4
PERNOKAS. LOUIS N. AM-04104-6
PERON. FERNAND G. AM-04899-5
PERONE. SAM P. CA-07773-2
PERRIN. CHARLES GM-12000-2

PERRY. H. MITCHELL., Jr. HE-02577-9
PERRY. H. MITCHELL., Jr. AM-07507-3
PERRY. JACQUELINE AM-07192-4
PERRY. JACQUELIN AM-08855-1
PERRY. JOHN E. AI-04945-3
PERRY. JOHN H. NB-01032-9
PERRY. TILDEN W. AM-07730-2
PERRYMAN, JAMES H. NB-01347-9
PERSELLIN. ROBERT H. AM-09209-1
PERSKY. HAROLD MH-06140-3
PERSKY. LESTER CA-07896-2
PERSON. STANLEY GM-09557-3
PERSON. WILLIS B. GM-10168-3
PERT. JAMES H. HE-07807-3
PERVIN. LAWRENCE A. MH-08321-2
PESCH. LEROY A. AM-08048-2
PESETSKY. IRWIN NB-04555-2
PESKIN. GERALD W. HE-02757-9
PESKIN. JAMES C. AM-02648-12
PETAJAN. JACK H. NB-04323-2
PETERS. EMRYS L. MH-10158-1
PETERS. HENRY A. NB-01943-7
PETERS. JOSEPH J. NB-00201-13
PETERS. MAX S. AP-00388-1
PETERS. RICHARD M. HE-01257-13
PETERS. RICHARD M. HE-06086-7
PETERS. THEODORE. Jr. HE-02751-9
PETERSDORF. ROBERT G. AI-03452-5
PETERSDORF, ROBERT G. AI-03456-6
PETERSDORF. ROBERT G. FR-00133-1
PETERSEN. ARNOLD J. GM-12181-2
PETERSON, BEDFORD F. OM-01794-2
PETERSON. CLARE G. NB-02082-5
PETERSON. ERNEST A. NB-05308-2
PETERSON. GLEN E. AI-03037-6
PETERSON. JOHN K DH-00049-1
PETERSON. LYSLE H. HE-07762-3
PETERSON. MALCOLM L. AM-05831-4
PETERSON. MARTIN R. OM-00397-6
PETERSON. OSLER L. HM-00322-1
PETERSON. R. PRICE NB-05038-2
PETERSON, RALPH E. AM-04855-5
PETERSON. RICHARD E. HE-01909-10
PETERSON. RICHARD E. HE-05337-4
PETERSON. SHAILER FR-05342-4
PETRAKIS. NICHOLAS L. CA-05485-5
PETTIT. GEORGE R. CA-04074-7
PEYTON. FLOYD A. DE-01234-6
PEYTON. FLOYD A. DE-01817-3
PEYTON. HAROLD R. ES-00101-1
PFAFFENBERGER. CLARENCE J. NB-03336-5
PFANDER. WILLIAM H. GM-08732-4
PFAU. CHARLES J. AI-06735-1
PFEFFER. JOHN T. WP-00646-2
PFEFFERKORN. ELMER R. AI-04531-4
PFEIFFER. CARL C. MH-04229-5
PFEIFFER. E.W. HE-08338-2
PFIFFNER. JOSEPH J. AM-04302-5
PFIFFNER. JOSEPH J. NB-02534-5
Pfizer and Co., Inc. Contr. CA-62-144
Pfizer and Co., Inc. Contr. CA-64-50
PFLAUM. RONALD T. GM-11233-3
PHILLIPS. ALVAH H. GM-12474-1
PHILLIPS. ARTHUR W. AM-07502-3
PHILLIPS. ARTHUR W. AM-07503-3
PHILLIPS. GEORGE M. OM-01847-2
PHILLIPS. GERALD B. HE-02907-9
PHILLIPS. HARRY T. CD-00045-2
PHILLIPS. HERBERT P. MH-11629-1
PHILLIPS. HUGH J. GM-10118-3
PHILLIPS. JAMES D., Jr. MH-10529-1
PHILLIPS, JOHN H., Jr. AI-05098-4
PHILLIPS. JOHN P. CA-07403-2
PHILLIPS. LESLIE MH-06369-3
PHILLIPS. LOUISE L. HE-01512-12
PHILLIPS. MILDRED E. CA-07863-1
PHILLIPS. RALPH W. DE-00433-9
PHILLIPS. RALPH W. DE-01876-3
PHILLIPSON. PAUL GM-11123-3
PHINNEY. HARRY K. WP-00666-1
PHIPPS. GRANT T. FR-05330-4
PHOTAKI. IPHIGENIA TW-00107-2
Photon Inc. Contr. LM-65-29
Photon Inc. Contr. NLM-65-29
PIANTADOSI. CLAUDE CA-06364-4
PIANTADOSI. CLAUDE GM-12562-1
PIATT. JEAN HD-00513-5
PIAVIS. GEORGE W. GM-09836-4

ALPHABETICAL LISTING OF INVESTIGATORS

PICCHIONI, ALBERT L. MH-03383-5
PICK, HERBERT L., Jr. MH-07588-3
PICK, HERBERT L., Jr. MH-07631-2
PICK, JOSEPH NB-01879-7
PICKERING, DONALD E. HD-01338-1
PICKERING, DONALD E. HD-01339-1
PICKETT, BILL W. GM-08738-4
PICKETT, JAMES M. NB-05464-1
PICKRELL, KENNETH L. DE-01899-3
PICO, GUILLERMO NB-05338-1
Pied Piper Farms Contr. CA-65-576
PIEL, CAROLYN F. AM-06576-2
PIEL, CAROLYN F. AM-06591-3
PIEPER, HEINZ P. HE-06593-4
PIERCE, G. BARRY, Jr. CA-08201-1
PIERCE, JAMES M., Jr. AM-06485-3
PIERCE, JOHN A. HE-07576-3
PIERCE, JOHN G. CA-02290-12
PIERCE, MILA I. CA-01300-16
PIERCE, MILA I. CA-04012-7
PIERINGER, RONALD A. AI-05730-2
PIERPONT, HOWARD C. AM-08618-1
PIERREL, ROSEMARY HD-00928-4
PIERRO, LOUIS J. HD-01061-1
PIETRZYK, DONALD J. GM-12316-1
PIETTE, LAWRENCE H. GM-12798-1
PIFFL, EDUARD AI-03499-5
PIGMAN, W. WARD AM-04619-5
PIGMAN, WARD AM-08429-1
PIHL, ALEXANDER RH-00098-5
PIKE, RUTH L. HD-01212-4
PILGERAM, LAURENCE O. HE-03697-7
PILGRIM, H. IRA CA-05771-5
PILIERO, SAM J. HF-03374-8
PINCHOT, GIFFORD B. AI-02443-7
PINCUS, GREGORY AM-06294-4
PINCUS, GREGORY CA-07103-2
PINCUS, GREGORY CA-07290-2
PINCUS, GREGORY HD-01858-1
PINCUS, GREGORY HE-01741-11
PINDBORG, JENS J. DE-01358-5
PINE, FRED MH-06162-3
PINE, MARTIN J. CA-07777-2
PINKEL, DONALD CA-07054-3
PINKEL, DONALD CA-07594-2
PINKEL, DONALD FR-05584-1
PINKERTON, HENRY CA-07972-1
PINKUS, A.G. CA-03753-8
PINKUS, HERMANN AM-07194-4
PINKUS, HERMANN CA-05580-5
PINKUS, JACK L. CA-06912-3
PINNEO, LAWRENCE R. NB-04951-2
PINTER, GABRIEL G. HE-07285-3
PIOMELLI, SERGIO AM-09274-1
PION, RONALD J. HD-01851-1
PIOTROWSKI, ZYGMUNT A. MH-08524-2
PIOUS, DONALD A. HD-01341-1
PIPA, RUDOLPH L. NB-03845-4
PIPBERGER, HUBERT V. CD-00064-6
PIPBERGER, HUBERT V. HE-09696-1
PIPES, WESLEY O. WP-00588-1
PIPKIN, SARAH B. GM-12018-1
PIRANI, CONRAD L. AM-00968-10
PIRANI, CONRAD L. HE-08198-2
PIRKLE, HUBERT C. HE-04932-6
PIRONE, THOMAS P. GM-12389-1
PISANO, MICHAEL A. AI-01219-9
PISCIOTTA, ANTHONY V. AM-01024-9
PISCIOTTA, ANTHONY V. CA-05524-5
PITCAIRN, DONALD M. AM-05012-4
PITTENGER, ROBERT E. OM-00894-1
PITTMAN, CONSTANCE S. AM-08181-2
PITTMAN, DAVID J. OM-00657-3
PITTS, FERRIS N., Jr. NB-06043-1
PITTS, JAMES N. AP-00109-6
PITTS, ROBERT F. HE-00814-13
PITTS, THOMAS D. AI-01037-7
PIZER, LEWIS I. AI-03957-5
PIZZARELLO, DONALD J. CA-07013-2
PLAA, GABRIEL L. AM-05802-4
PLAA, GABRIEL L. AM-08083-2
PLAGER, JOHN E. AM-06085-4
PLAGER, JOHN E. AM-07622-2
PLANE, ROBERT A. GM-11748-2
PLASTRIDGE, WAYNE N. AI-03735-5
PLATNER, WESLEY S. AM-05388-3
PLATT, DAVID AI-05596-2
PLATT, JOHN R. GM-12101-1
PLAUT, GERHARD W.E. AM-06435-2
PLAUT, WALTER CA-03276-8
PLAUT, WALTER GM-06317-7

PLAXCO, JAMES M. GM-11801-2
PLEASURE, HYMAN OM-01848-2
PLENTL, ALBERT A. HD-00459-13
PLESCIA, OTTO J. CA-07442-1
PLOG, STANLEY C. MH-11701-1
PLONSEY, ROBERT GM-12203-1
PLOTSKY, HAROLD OM-00503-3
PLOTZ, E.J. CA-07152-3
PLOTZ, E.J. HD-00106-2
PLUM, FRED NB-04718-3
PLUM, FRED NB-04719-3
PLUMMER, GAYTHER L. RH-00117-4
PLUMMER, THOMAS H., JR. GM-11764-2
PLUNKERT, WILLIAM OM-02235-1
PLUNKETT, GEOFFREY E. AI-06029-1
POCKER, YESHAYAU AM-09221-1
POCKER, YESHAYAU GM-10181-3
PODELL, LAWRENCE CH-00122-1
PODELL, LAWRENCE MH-10567-1
POEL, WILLIAM E. CA-09187-13
POGELL, BURTON M. GM-12888-1
POGGIO, GIAN F. NB-03745-4
POLANSKY, BURTON J. HE-07515-3
POLESKY, HERBERT F. HD-01513-1
POLGAR, GEORGE HD-00236-4
POLK, JOHN W. CA-07608-2
POLLACK, IRVIN CD-00016-7
POLLACK, ROBERT H. HD-01433-1
POLLAK, VICTOR E. AM-05374-4
POLLARD, CLIFFORD J. GM-10731-3
POLLARD, MORRIS AM-00566-12
POLLARD, MORRIS CA-07271-2
POLLARD, MORRIS CA-07721-4
POLLEY, HOWARD F. AM-09405-1
POLLEY, MICHAEL NB-05193-1
POLLI, E.E. CA-05544-5
POLLIO, HOWARD R. MH-08903-2
POLLIS, NICHOLAS P. MH-10745-1
POLLITZER, WILLIAM S. GM-10601-2
POLLYCOVE, MYRON AM-06520-3
POLSKY, HOWARD W. OM-02121-1
POLSON, A. AI-04044-5
POMERANTZ, SEYMOUR H. CA-07093-3
POMEROY, B.S. AI-04812-4
POND, WILLIAM L. AI-04084-5
PONDER, ERIC H. CA-06604-3
PONDER, ERIC H. HE-07401-3
PONDMAN, KAREL W. HE-06669-4
PONSETI, I.V. AM-00149-13
PONTOPPIDAN, HENNING HE-09337-1
PONTREMOLI, SANDRO GM-12291-1
POOL, JUDITH G. HF-05280-6
POOL, ROBERT S. CA-06928-3
POOLE, CHARLES P., Jr. CA-06401-4
POPE, ALFRED NB-00361-12
POPE, BENJAMIN MH-04287-5
POPE, MARTIN GM-10691-3
POPE, RICHARD S. NB-04909-2
POPOV, ALEXANDER I. MH-07825-2
POPOVIC, VOJIN CA-06311-3
POPOVIC, VOJIN P. GM-09652-4
POPP, FRANK D. CA-06606-3
POPP, FRANK D. CA-07891-2
POPP, FRANK D. GM-11006-2
POPPELL, JAMES W. AI-06414-1
POPPENDIEK, HEINZ F. HF-06699-4
POPPENSICK, GEORGE C. FR-05462-3
POPPER, HANS AM-03846-6
POPPER, HANS ES-00058-1
PORTELA, ADOLFO AM-07509-3
PORTER, CHARLES W. GM-11232-2
PORTER, F. STANLEY AM-09156-1
PORTER, GEORGE A. HE-10042-1
PORTER, HERCULES OM-00674-4
PORTER, HUNTINGTON NB-01733-7
PORTER, IAN H. HD-00828-2
PORTER, IAN H NB-05598-1
PORTER, JOHN C. AM-01237-9
PORTER, JOHN J. MH-10448-1
PORTER, JOHN W. AM-01383-9
PORTER, KEITH R. CA-04018-4
PORTER, KENDALL DE-01790-2
PORTER, PAUL B. MH-03165-8
PORTER, RICHARD J. AI-03453-6
PORTER, RICHARD N. GM-13253-1
PORTER, ROBERT M. OM-01676-2
PORTMAN, OSCAR W. HE-09744-1
PORTOGHESE, PHILIP S. GM-09402-3
PORTOGHESE, PHILIP S. NB-05192-1
PORUSH, JEROME G. HE-07839-3
POSER, CHARLES M. HD-01221-1
POSER, CHARLES M. NB-05618-1

POSNER, AARON S. DF-01945-2
POSNER, JEROME B. NB-04928-2
POSNER, JEROME B. NB-05030-2
POST, JOSEPH CA-03917-7
POST, ROBERT L. HE-01974-11
POST, ROBERT S. HE-05276-6
POSTERNAK, THEODORE HE-07789-3
POSTLETHWAIT, RAYMOND W. AM-05258-9
POTH, EDGAR J. AM-04423-4
POTTER, DAVID D. NB-03813-4
POTTER, EDITH L. HD-00457-14
POTTER, JACK M. MH-11628-1
POTTER, JOHN F. CA-07978-1
POTTER, LINCOLN T. NB-04812-2
POTTS, ALBERT M. NB-02521-6
POTTS, ALBERT M. NB-02522-6
POTTS, ALBERT M. NB-04685-2
POTTS, ALBERT M. NB-05505-1
POTTS, KEVIN T. CA-05973-4
POTTS, KEVIN T. HF-06475-4
POTTS, WILLIAM E. AI-06580-1
POULIK, MIROSLAV D. HE-07495-4
POULIK, MIROSLAV DAVE AI-05785-2
POULSON, THOMAS L. GM-12231-2
POULTER, THOMAS C. NB-04736-2
POULTON, BRUCE R. AM-06215-3
POWELL, ARNOLD E. AM-07534-3
POWELL, ERVIN W. MH-07802-2
POWELL, ERVIN W. NB-03585-4
POWELSON, DOROTHY M. AI-06030-2
POWERS, JAMES C. MH-10285-1
POWERS, JOHN J. EF-00349-6
POWERS, RICHARD D. AC-00134-2
POWERS, SAMUEL R., Jr. AM-07456-3
POWERS, SAMUEL R., Jr. HE-04382-6
POWERS, SAMUEL R., Jr. HF-08179-3
POWERS, WILLIAM E. CA-05846-4
POWRIE, WILLIAM D. EF-00505-2
POWSNER, EDWARD R. AM-09407-12
PRADO, JOSE L. HE-09267-1
PRAGER, MORTON D. AM-02612-7
PRAGER, MORTON D. CA-07724-2
PRAGER, MORTON D. FR-05568-1
PRASAD, ANANDA S. AM-08013-2
PRASAD, ANANDA S. AM-08142-2
PRATHER, E. CHARLTON CC-00062-7
PRATT, DAVID AI-05627-2
PRATT, EDWARD L. FR-00123-2
PRATT, EDWARD L. FR-05535-3
PRATT, HARLAN K. EF-00156-5
PRATT, IVAN AI-00867-8
PRAUSNITZ, JOHN M. GM-09154-4
PREBLE, EDWARD OM-00728-3
PREEDY, JOHN R.K. AM-02221-7
PREHM, HERBERT J. MH-10199-1
PREHN, RICHMOND T. CA-04158-7
PREHN, RICHMOND T. CA-07767-2
PREISS, JACK AI-05520-3
PREISS, JOHN W. CA-06837-3
PRELINGER, ERNST MH-03642-5
PREMACHANDRA, B.N. AM-07676-2
PREMACK, DAVID MH-11930-1
PREMACK, DAVID OM-02036-1
PRENTICE, THEODORE C. CA-02728-9
PRENTISS, ROBERT J. HE-10052-1
Presbyterian St. Lukes Hosp. Contr. CA-62-179
PRESCOTT, JOHN M. AI-00965-9
PRESSMAN, DAVID AI-02343-7
PRESSMAN, DAVID AI-03962-5
PRESSMAN, DAVID AI-05158-3
PRESSMAN, JOEL J. CA-04138-7
PRESSMAN, JOEL J. NB-05873-1
PRESSMAN, JOEL J. NB-05883-1
PRESTON, JAMES B. NB-02957-5
PRESTON, RODNEY L. AM-03292-5
PRESTON, RODNEY L. HD-01473-1
PRIBRAM, KARL H. MH-03732-7
PRICE, CARL A. AM-03767-6
PRICE, CHARLES C. CA-02714-10
PRICE, DEREK W. HM-00351-1
PRICE, DOROTHY GM-05335-8
PRICE, J.M. CA-07817-10
PRICE, J.M. CA-08254-1
PRICE, JAMES M. AM-01499-9
PRICE, JOHN B. AM-07646-2
PRICE, KENT S. HE-09658-1
PRICE, T. DUANE CA-03179-8
PRICHARD, ROBERT W. HF-04352-6
PRIER, JAMES E. CA-08161-1
PRIEST, JEAN H. HD-00777-2
PRIEST, ROBERT E. HF-08072-3

Princeton Univ.	Contr.
	HD-65-1048
PRINCIOTTO, JOSEPH V.	AM-04447-5
PRINCIOTTO, JOSEPH V.	AM-05510-3
PRINZMETAL, MYRON	HE-01267-13
PRITCHARD, AUSTIN W.	WP-00493-2
PRITCHARD, JACK A.	HE-02516-9
PRITCHARD, W.R.	FR-05457-3
PRITCHARD, WALTER H.	HE-06304-4
PRIVETT, ORVILLE S.	AM-04942-5
PRIVETT, ORVILLE S.	AM-05018-4
PRIVETT, ORVILLE S.	HE-05735-5
PRIVITERA, CARMELO A.	HE-04804-4
PROCITA, LENOARD	GM-11961-3
PROCKNOW, JOHN J.	AI-00283-14
PROCKOP, DARWIN J.	HD-00183-2
PROCTOR, DONALD F.	HE-08492-3
PROCTOR, LORNE D.	FR-05490-3
PROCTOR, VERNON W.	GM-11394-1
PROGER, SAMUEL	HE-03753-7
PROPER, ROBERT	HD-00518-4
PROPHET, CARL W.	WP-00615-2
PROUT, GEORGE R., Jr.	CA-06462-4
PROUT, GEORGE R., Jr.	CA-06732-2
PROUT, THADDEUS E.	AM-04403-5
PROUT, TIMOTHY	GM-06174-5
PROVENZA, D. VINCENT	DE-01672-3
PROVENZA, D. VINCENT	HD-01842-1
PROVENZANO, ANTHONY J., Jr.	GM-11244-3
PROVOST, MAURICE W.	AI-06587-1
PRUDDEN, JOHN F.	AM-02581-7
PRUITT, RAYMOND D.	HE-05435-5
PRUSOFF, WILLIAM H.	CA-05262-5
PRUZANSKY, JACOB J.	AI-06139-2
PRUZANSKY SAMUEL	HD-01153-1
PRYLES, CHARLES V.	HD-00291-5
PRYOR, WILLIAM A.	GM-09020-2
PRYOR, WILLIAM A.	GM-11908-1
PRYSTOWSKY, HARRY	HD-00306-5
PRYSTOWSKY, HARRY	HD-00546-4
PSATHAS, GEORGE	MH-08664-2
PSATHAS, GEORGE	NU-00050-3
Psychological Institute Denmark	Contr.
	MH-64-532
PUCHTLER, HOLDE	GM-07303-6
PUCK, THEODORE T.	HD-00622-2
PUDDU, VITTORIO	OH-00162-2
Puerto Rico Univ.	Contr.
	HE-63-620
PUFFER, RUTH R.	GM-08682-4
PUGH, DELBERT L.	HM-00239-1
PUGH, THOMAS F.	MH-06599-3
PUGH, THOMAS F.	MH-08763-2
PUGLIESE, PETER T.	CA-05962-3
PULETTI, FLAVIO	NB-05548-1
PULLEN, MYRICK W., Jr.	OM-01817-2
PULLMAN, BERNARD	CA-03073-8
PULLMAN, MAYNARD E	AM-08823-1
PULLMAN, THEODORE N.	HF-00315-16
PUMPHREY, MURIEL W.	OM-01626-1
PUNNETT, HOPE H.	HD-01313-3
PUNNETT, THOMAS R., Jr.	GM-11947-2
PURCELL, KENNETH	HD-01060-1
PURDOM, P.W.	EF-00710-1
PURDY, ROBERT H.	AM-09633-1
PURPLE, RICHARD L.	NB-05756-1
PURPURA, DOMINICK P.	NB-01312-9
PURSER, DOUGLAS B.	AM-07041-3
PURSLEY, NORMAN B.	OM-01722-2
PURVIS, JOHN L.	GM-09806-3
PUTNAM, FRANK W.	CA-02803-9
PUTNAM, FRANK W.	HE-02966-8
PUTNAM, HUGH D.	WP-00678-1
QUACKENBUSH, FORREST W.	HE-08424-2
QUAGLIANO, JAMES V.	AM-02734-7
QUAM, GEORGE N.	AC-00129-3
QUARANTELLI, ENRICO L.	DH-00014-5
QUASTEL, JUDA H.	MH-05326-3
QUAY, HERBERT C.	MH-07346-1
QUAY, HERBERT C.	MH-08437-2
QUAY, WILBUR B.	GM-05219-7
QUERESHI, MOHAMMED Y.	MH-11115-1
QUEVEDO, WALTER C., Jr.	CA-06097-4
QUICK, ARMAND J.	HF-01612-19
QUILLIGAN, EDWARD J.	HD-01855-1
QUILLIGAN, EDWARD J.	HE-09995-1
QUILLIGAN, J.J., Jr.	HE-05998-5
QUIMBY, MAYNARD W.	GM-08798-4
QUIN, LOUIS D.	CA-05507-5
QUINLIVAN, W.L.G.	AI-05553-2
QUINLIVAN, W.L.G.	HD-00788-2
QUINN, JOHN A.	WP-00601-2
QUINN, LOYD Y.	AI-02588-6
QUINN, MILDRED D.	NU-00167-1
QUINN, ROBERT W.	AI-05933-2
QUINN, ROBERT W.	HF-06433-4
QUINTARELLI, GIULIANO	DE-01952-2
QUITTNER, HOWARD	AM-06855-3
QUON, JIMMIE E.	AP-00039-3
RAAB, SPENCER	HE-08955-2
RAAB, WILHELM	HF-02169-8
RAAB, WILHELM	HE-09184-1
RABE, AUSMA	MH-08554-2
RABE, EDWARD F.	NB-04289-3
RABEN, MAURICE S.	AM-01567-9
RABEN, MAURICE S.	HF-04924-3
RABIN, ERWIN R.	HF-08237-3
RABINER, EDWIN L.	MH-08018-2
RABINER, EDWIN L.	MH-10886-1
RABINER, S. FREDERICK	AM-04156-6
RABINER, S. FREDERICK	HE-07488-3
RABINOWICZ, THEODORE	HD-00326-8
RABINOWITCH, EUGENE	GM-12877-1
RABINOWITZ, JESSE C.	AM-02109-8
RABINOWITZ, JESSE C.	AM-05530-3
RABINOWITZ, LAWRENCE	AM-07831-2
RABINOWITZ, MURRAY	HE-03170-8
RABINOWITZ, MURRAY	HE-04442-7
RABINOWITZ, MURRAY	HE-09172-1
RABINOWITZ, YALE	CA-06504-4
RABJOHN, NORMAN	CA-08226-1
RACCUGLIA, GIOVANNI	HE-08743-2
RACE, GEORGE J.	HE-05069-5
RACHELE, JULIAN R.	CA-03981-7
RACHMELER, MARTIN	AI-04713-3
RACHMILEWITZ, M.	HE-05769-4
RACKER, EFRAIM	CA-03463-8
RADAUSKAS, BRUNO	OM-01312-2
RADAUSKAS, BRUNO	OM-01733-2
RADFORD, EDWARD P., Jr.	OH-00103-4
RADIN, NORMAN S.	NB-03192-6
RADIN, SHERWIN S.	OM-01475-2
RADOMSKI, JACK L.	CA-07512-2
RAFELSON, MAX E., Jr.	AI-04435-4
RAFELSON, MAX E., Jr.	AM-05667-4
RAFELSON, MAX E., Jr.	HF-07565-3
RAFFEL, SIDNEY	AI-01178-9
RAFFEL, SIDNEY	FR-00070-3
RAFFEL, SIDNEY	FR-05353-4
RAFFERTY, FRANK T.	OM-01082-3
RAFFERTY, KEEN A., Jr.	CA-06008-4
RAFFERTY, NANCY S	NB-05635-1
RAFFUCCI, FRANCISCO L.	AM-04158-5
RAGAN, CHARLES	AM-01191-9
RAGAN, CHARLES	AM-07183-2
RAGINS, HERZL	AM-09377-1
RAGLAND, JAMES B.	MH-04578-5
RAHER, JACK	MH-06044-2
RAI, KARAMJIT S.	GM-11753-2
RAINER, JOHN	MH-03532-6
RAISZ, LAWRENCE G	AM-04205-4
RAISZ, LAWRENCE G.	AM-07871-2
RAJAM, P.C.	HD-01148-1
RAKIC, LJUBISAV	TW-00074-1
RAKITA, LOUIS	HF-06403-4
RAKITA, LOUIS	HF-08820-2
RALL, THEODORE W.	AM-06141-3
RALL, THEODORE W.	NB-05716-1
RALLS, JACK W	EF-00611-2
RALPH, CHARLES L.	NB-03602-4
RALSTON, BRUCE L.	NB-01703-7
RALSTON, H.J.	DE-02069-2
RALSTON, HENRY	AM-08605-2
RAMEY, ESTELLE R	AM-02307-7
RAMEY, ESTELLE R.	AM-04714-5
RAMEY, ESTELLE R.	AM-08843-1
RAMFJORD, SIGURD P.	DE-01430-5
RAMIREZ, FAUSTO	CA-04769-6
RAMIREZ, GRACIELA	TW-00056-3
RAMOS-ALVAREZ, MANUEL	AI-03162-6
RAMPONE, ALFRED J.	AM-01389-9
RAMSEY, HAROLD A.	AM-02230-7
RAMSEY, ROBERT W.	HF-06389-4
RAMSTAD, EGIL	GM-11245-3
RANCK, JAMES B., Jr.	NB-04352-3
RAND, CHARLES C.	OM-02073-1
RAND, MYRTON C.	WP-00074-3
RAND, PETER W.	HE-07984-3
RAND, ROBERT W.	CA-04423-6
RANDALL, CHARLES C.	AI-02031-8
RANDALL, CHARLES C.	AI-02032-8
RANDALL, CHARLES C.	AM-07496-3
RANDALL, CLYDE L.	HD-00643-2
RANDALL, HENRY T.	CA-05826-4
RANDALL, HENRY T.	CA-07303-2
RANDALL, JAMES E.	HE-08516-2
RANDALL, PETER	DH-00037-2
RANDALL, RUSSELL E., Jr.	AM-09707-1
RANDALL, WALTER C.	HE-08682-2
RANDLES, CHESTER I.	WP-00147-10
RANDOLPH, KENNETH V.	FR-05347-4
RANDT, CLARK T.	NB-05269-2
RANKEN, HOWARD B.	MH-08481-2
RANKIN, JOHN	HF-07474-3
RANKIN, JOHN	OH-00044-5
RANNEY, HELEN M.	AM-04502-6
RANNEY, HELEN M.	AM-09240-1
RANSOHOFF, JOSEPH	HE-07018-4
RANSOHOFF, JOSEPH	NB-04343-3
RAPAPORT, FELIX T.	GM-12748-1
RAPAPORT, SAMUEL I.	HF-06128-5
RAPER, JOHN R.	AI-06124-12
RAPER, KENNETH B.	AI-04915-11
RAPIN, ISABELLE	NB-02503-6
RAPOPORT, ANATOL	MH-04238-5
RAPOPORT, HENRY	AI-04888-3
RAPP, FRED	AI-05398-4
RAPP, GUSTAV W.	DF-00811-7
RAPP, GUSTAV W.	DE-01444-4
RAPP, JOHN P.	AM-08746-1
RAPPAPORT, BEN Z.	AI-04422-3
RAPPAPORT, HARRY P.	GM-10461-3
RAPPAPORT, HENRY	CA-04665-6
RAPPAPORT, HENRY	CA-05717-5
RAPPAPORT, L.	GM-12885-5
RAPPEPORT, JONAS R.	MH-07571-2
RAPPOLT, RICHARD T.	HE-09408-1
RAPPOPORT, DONALD A.	GM-07926-5
RAPPOPORT, DONALD A.	GM-12519-1
RAPPORT, MAURICE M.	GM-11784-2
RAPPORT, MAURICE M.	NB-01570-8
RARICK, G. LAWRENCE	HD-00829-1
RASCH, ELLEN M.	GM-10503-3
RASHEVSKY, NICOLAS	GM-12032-1
RASHKIND, WILLIAM J.	HF-05845-5
RASHKIS, HAROLD A.	MH-07990-2
RASKI, DEWEY J.	AI-03746-5
RASKIN, JOAN	AM-07668-2
RASMUSEN, BENJAMIN A.	GM-08752-4
RASMUSSEN, A.F., Jr.	AI-05995-1
RASMUSSEN, A.F., Jr.	CA-04779-6
RASMUSSEN, DAVID I.	GM-12190-2
RASMUSSEN, HOWARD	AM-09650-1
RASMUSSEN, PETER	HF-07040-4
RATCLIFFE, HERBERT L.	HF-01979-10
RATCLIFFE, HERBERT L.	HE-04759-5
RATHBURN, CARLISLE B., Jr.	CC-00100-5
RATHER, LELLAND J.	GM-06799-5
RATNER, SARAH	AM-03428-6
RATNEY, RONALD S	GM-12391-1
RATNOFF, OSCAR	HE-01661-13
RAUCH, HELENE C	NB-05513-1
RAUSH, HAROLD L.	MH-10975-1
RAVDIN, ROBERT G.	CA-03147-9
RAVDIN, ROBERT G.	CA-07247-2
RAVIN, ARNOLD W.	AI-00727-11
RAVIN, HERBERT A.	NB-05247-2
RAVITCH, MARK M.	GM-11540-2
Rawley Farms	Contr.
	CA-65-66
RAWNSLEY, HOWARD M.	AM-04944-4
RAWSON, ROBERT O.	NB-04516-3
RAWSON, RULON W.	CA-03809-9
RAWSON, RUTH A.	HF-08778-1
RAY, BRONSON S.	NB-03378-4
RAY, DAVID T.	GM-12193-2
RAY, FRANCIS E.	CA-07737-2
RAY, FRANCIS E.	CA-08186-1
RAY, OAKLEY S.	MH-08111-2
RAY, ROBERT D.	AM-01339-9
RAY, SAMMY M.	EF-00338-3
RAY, SAMMY M.	EF-00614-2
RAY, WILBERT S.	MH-08823-2
RAY, WILLIAM J., Jr.	GM-08963-4
RAYMOND, SAMUEL	GM-10876-5
RAYPORT, MARK	NB-02080-7
RAZRAN, GREGORY	MH-02196-8
READ, CHARLES H.	AM-01287-9
READ, CLARK P.	AI-01384-8
READ, KENNETH E.	MH-10630-1
READ, W.O.	HF-06044-5
READER, GEORGE G.	OH-00103-1
REBHUN, LIONEL I.	GM-07426-5
RECANT, LILLIAN	AM-06305-4
RECANT, LILLIAN	AM-06737-3
RECH, RICHARD H.	NB-03968-3
RECH, RICHARD H.	NB-06013-1

ALPHABETICAL LISTING OF INVESTIGATORS

RECHNITZ, GARRY A. GM-10086-3
RECHTSCHAFFEN, ALLAN MH-04151-5
RECKLESS, JOHN B. MH-07989-2
RECKLESS, WALTER C. OM-01304-3
RECKNAGEL, RICHARD O. AM-01489-8
REDDI, KUTUMBA K. AI-04424-1
REDDING, JOSEPH S. HE-05439-5
REDDY, D.V.N. NB-02885-5
REDDY, WILLIAM J. AM-04328-5
REDDY, WILLIAM J. AM-09262-1
REDEI, GYORGY P. GM-11474-2
REDEKER, ALLAN G. AM-01271-9
REDETZKI, HELMUT M. AM-09375-1
REDFEARN, ERIC R. AM-06858-1
REDGATE, EDWARD S. NB-04095-5
REDING, GEORGE R. MH-10828-1
REDISCH, WALTER AM-08659-2
REDMOND, JAMES R. GM-11199-3
REDMOND, WILLIAM B. AI-01371-9
REED, CHARLES E. AI-04412-4
REED, CHARLES F. MH-10598-1
REED, DONALD J. CA-08348-1
REED, JAMES C. MH-08020-2
REED, LESTER J. GM-06590-6
REED, RAYMOND E. AI-00687-11
REED, RAYMOND E. EF-00500-1
REED SHELDON C. HD-00809-1
REED, SHELDON C. MH-02892-7
REED, T. EDWARD HE-08111-2
REED, WILLIAM A. HE-09688-1
REEMTSMA, KEITH HF-03545-8
REES, DON M. WP-00027-4
REES, EARL D. CA-05385-4
REES, THOMAS D. GM-11426-2
REESE, EVA M. NU-00045-3
REESE, FLOYD E. GM-11432-1
REEVE, E B HF-02262-10
REEVES, JOHN T. HE-06780-4
REEVES, P G , Jr. OM-01028-3
REEVES, RICHARD E. AI-02951-6
REEVES, T. JOSEPH HE-08922-1
REEVES, T. JOSEPH HE-09423-1
REEVES, WILLIAM C. AI-03028-6
REEVES, WILLIAM C. AI-04938-4
REGELSON, WILLIAM CA-03887-8
REGER, JAMES R. NB-01528-7
REGER, SCOTT N. NB-01908-7
Regis Chemical Co. Contr. MH-61-3021
REHFUSS, MARY D., SISTER AM-08190-1
REHM, WARREN S. GM-12618-1
REICH, EDWARD CA-08290-1
REICHARD, SHERWOOD M. HE-08982-2
REICHLE, FREDERICK A. AM-09385-1
REICHLIN, MORRIS AM-08797-1
REICHLIN, SEYMOUR NB-04051-5
REICHMANN, MANFRED E. GM-12444-1
REID, BOBBY L. AM-02274-7
REID, DONALD D. HE-04775-4
REID, J. THOMAS AM-02889-6
REID, JOHN M. HF-03882-7
REIF, ARNOLD E. CA-04469-6
REIFF, ROBERT OM-00175-5
REIGELMAN, SIDNEY NB-03457-4
REILLEY, CHARLES N. GM-08349-4
REILLEY, CHARLES N. GM-12598-1
REILLY, EMMETT B. CA-08141-1
REILLY, RICHARD W. CA-04904-5
REIMANN, HOBART A. AI-04001-4
REIN, MARTIN MH-09199-1
REINEKE, F. PAUL AM-08513-1
REINER, CHARLES B. HD-00665-3
REINER, LEOPOLD HE-09543-1
REINHARDT, W.O. FR-05355-4
REINHARDT, WILLIAM O. FR-00083-3
REINHARDT, WILLIAM O. HE-00749-9
REINHOLD, JOHN G. AM-09622-1
REISER, RAYMOND AM-04011-4
REISH, DONALD J. WP-00531-2
REISNER, EDWARD H., Jr. CA-02566-11
REISS, OSCAR K. AM-04968-3
REIST, ELMER J. GM-11438-2
REITAN, RALPH M. CD-00015-6
REITAN, RALPH M. NB-01468-8
REITAN, RALPH M. NB-05211-2
REITHEL, FRANCIS J. AM-05269-4
REITHEL, FRANCIS J. AM-08128-2
REIS, DONALD J. NB-04876-1
REISE, ERIC AM-08572-1
REISER, DAVID E. OM-00892-3
REISSIG, MAGDALENA AI-04912-3
REISSMANN, KURT R. AM-07239-2

REITH, EDWARD J. DE-02274-1
RELMAN, ARNOLD S. AM-06728-3
RELMAN, ARNOLD S. AM-08657-1
RELMAN, ARNOLD S. HE-06395-4
REMENCHIK, ALEXANDER P. RH-00283-2
REMINGTON, JACK S. AI-04717-4
REMINGTON, JACK S. AI-05878-2
REMINGTON, JOHN W. HE-04573-6
REMMERS, AUGUST R HE-09789-1
REMMERT, LEMAR F. GM-07355-5
REMOND, ANTOINE G.J. NB-04009-1
REMPEL, W.E. HE-01730-12
REMY, CHARLES N. GM-10699-3
RENDI, RENZO AM-07311-3
RENDIG, VICTOR V. GM-07714-5
RENDINA, GEORGE NB-04484-2
RENDTORFF, ROBERT C. AI-02707-6
RENN, CHARLES E. WP-00099-4
RENNELS, EDWARD G. GM-04723-9
RENNER, KENNETH E. MH-11633-1
RENNICK, BARBARA R. AM-05672-4
RENNIE, DONALD W. GM-11818-2
RENO, JOHN C. OM-00352-5
RENUART, ADHEMAR W. NB-05947-1
RENZETTI, ATTILIO, Jr. OH-00205-1
RENZETTI, ATTILIO D., Jr. HF-06751-4
RERICK, MARK N. GM-11620-2
Res. Fdn. State Univ. New York. Contr. AI-63-563
Res. Fdn. State Univ. New York Contr. CA-63-1147
Res. Fdn. State Univ. New York Contr. CA-65-605
Res. Fdn. State Univ. New York Contr. DE-64-944
Research Fdn. Childrens Hosp. Contr. AI-62-473
Research Triangle Contr. CA-61-4351
Research Triangle Contr. GM-65-1057
RESNICK, OSCAR MH-06349-4
RESNICK, OSCAR MH-11229-1
RESSLER, CHARLOTTE NB-04316-3
RESSLER, NEWTON HE-08345-2
RESSLER, ROBERT H. MH-10806-1
RESTREPO-MORENO, ANGELA AI-06637-1
RESWICK, JAMES B. DH-00076-1
RETTIG, SALOMON MH-10671-1
RETZLAFF, ERNEST W. MH-11828-1
REUBEN, RICHARD N. NB-04875-2
REUSS, EMERY E. OM-02082-1
REVEL, JEAN P. GM-11380-2
REVESZ, LASZLO CA-06633-3
REYER, RANDALL W. NB-01544-8
REYERSON, LLOYD H. HE-07716-3
REYNAFARJE, CESAR HE-07416-3
REYNAFARJE, BALTAZAR GM-10219-3
REYNARD, ALAN M. AM-09355-1
REYNIERS, JAMES A. CA-05030-5
REYNOLDS, EDWARD S. AM-07979-2
REYNOLDS, ERNEST W., Jr. HE-07406-3
REYNOLDS, GEORGE S. MH-10397-1
REYNOLDS, JAMES H MH-10438-1
REYNOLDS, JOHN W. HD-00435-4
REYNOLDS, JOHN W. HD-01183-3
REYNOLDS, LUTHER HF-08641-1
REYNOLDS, MONICA HF-04121-7
REYNOLDS, ORLAND B. AM-07033-3
REYNOLDS, ROBERT N. HF-04645-6
REYNOLDS, ROBERT W. NB-05583-1
REYNOLDS, S.R.M. HD-00975-2
REYNOLDS, TELFER B. HF-01718-11
REYNOLDS, TELFER B. HE-09316-1
REYNOLDS, VERNON H. CA-07131-3
REYNOLDS, WYNETKA A. GM-10295-3
RHEINGOLD, HARRIET L. HD-01107-2
RHEINLANDER, HAROLD F. CA-06923-3
RHINELANDER, FREDERIC W. AM-02579-7
RHINES, RUTH NB-05781-1
RHINESMITH, HERBERT S. GM-11838-2
RHOADS, JONATHAN E. AM-04825-5
RHOADS, JONATHAN E. GM-13230-1
RHODE, EDWARD A. HE-05622-5
Rhode Island Coun. Com. Ser. Contr. MH-65-583
Rhode Island Dept. Soc. Welfare Contr. MH-65-610
RHODES, ROBERT S. HD-01319-1
RHODES, WILLIAM C. GM-09202-3
RHODES, WILLIAM H. AM-04979-4
RHODIN, JOHANNES A.G. AM-09055-2

RHYNE, MARIE B. AI-03289-5
RIBACCHI, RODOLFO CA-01092-2
RIBBLE, JOHN C. AI-06220-2
RICCI, CARLO GM-09791-3
RICE, CHARLES E. NB-04738-2
RICE, DOYLE K. HM-00278-1
RICE, ELIZABETH P. OM-01861-1
RICE, GEORGE E., Jr. MH-10599-1
RICE, ROBERT V. AM-02809-7
RICE, STUART A. GM-09809-3
RICE, WILLIAM E. GM-11117-2
RICH, ALEXANDER CA-04186-7
RICH, CLAYTON AM-09096-1
RICH, MARVIN A. CA-06711-3
RICH, SAUL AP-00393-1
RICHARD, ALFRED J. GM-09771-4
RICHARDS, ALBERT G. RH-00113-5
RICHARDS, DICKINSON W. AM-07911-1
RICHARDS, FREDERIC M. GM-10025-3
RICHARDS, FREDERIC M GM-12006-2
RICHARDS, FREDERIC M. GM-11948-1
RICHARDS, GUY A. OM-01519-2
RICHARDS, GUY A. OM-01705-2
RICHARDS, JOHN H. AM-08888-1
RICHARDS, JOHN H. GM-10218-3
RICHARDS, LLOYD F. DH-00010-5
RICHARDS, RALPH C. AI-05206-3
RICHARDS, RICHARD D. NB-03240-4
RICHARDS, VICTOR AM-07067-3
RICHARDS, VICTOR CA-04881-6
RICHARDSON, ARTHUR P. FR-00039-5
RICHARDSON, ARTHUR P. FR-05364-4
RICHARDSON, CHARLES C. AI-06045-2
RICHARDSON, ELISHA R. HD-01846-1
RICHARDSON, ELIZABETH H. NU-00093-3
RICHARDSON, FREDERICK NB-03877-3
RICHARDSON, GEORGE S. CA-03219-6
RICHARDSON, KEITH E. AM-07286-3
RICHARDSON, KEITH E. GM-07865-5
RICHARDSON, JAMES A. HE-01846-10
RICHARDSON, JAMES A. HE-09756-1
RICHARDSON, STEPHEN H. AI-06219-2
RICHARDSON, STUART N. AM-07281-2
RICHARDSON, THOMAS AM-08069-2
RICHARDSON, TRAVIS O. HF-07137-4
RICHARDSON, TRAVIS O. HE-09512-1
RICHART, RALPH M. CA-07060-3
RICHERT, DAN A. CA-01852-13
RICHINS, CALVIN A. NB-04912-2
RICHMOND, JULIUS B. FR-00085-3
RICHMOND, JULIUS B. HD-01159-1
RICHMOND, JULIUS B. MH-04605-4
RICHMOND, JULIUS B. MH-08542-2
RICHTER, CURT P. MH-00576-13
RICHTER, GOETZ W. AM-00823-10
RICHTER, GOETZ W. GM-12023-9
RICHTER, HENRY J. CA-02997-8
RICHTER, MELISSA L. HD-00958-3
RICK, CHARLES M. GM-06209-7
RICKARD, CHARLES G. CA-06479-4
RICKELS, KARL MH-04711-5
RICKELS, KARL MH-08957-1
RICKELS, KARL MH-08958-1
RICKENBERG, HOWARD V. AM-08868-4
RICKERS-OVSIANKINA, MARIA A. MH-11788-1
RIDDLE, J. IVERSON OM-01969-1
RIDDLE, JEANNE M. HE-09464-1
RIDER, J. ALFRED CC-00061-3
RIDLEY, JEANNE C. HD-01585-1
RIEBER, MORTON MH-07240-3
RIECK, ALVIN F. GM-10293-3
RIEDER, SIDNEY V. AM-05196-5
RIEDERS, FREDRIC GM-07993-5
RIEDERS, FREDRIC NB-05112-2
RIEGEL, KLAUS F. HD-01368-1
RIEGEL, KLAUS F. MH-07619-2
RIEGELMAN, SIDNEY AI-05241-3
RIEHL, HERBERT AP-00216-2
RIEHL, JEAN-LOUIS R. NB-05248-1
RIEKE, WILLIAM O. AI-06150-2
RIEMAN, WILLIAM, III GM-09687-3
RIESE, HERTHA OM-01404-2
RIESE, WALTHER MH-04011-6
RIESEN, AUSTIN H. NB-04717-3
RIESER, PETER HE-07710-3
RIFFENBURGH, ROBERT H. GM-11608-2
RIFKIND, RICHARD A. AI-05493-3
RIGDEN, JOHN S. GM-09508-3
RIGDON, R.H. NB-02951-5
RIGGS, AUSTEN F., II GM-05818-3
RIGGS, HELENA E. NB-03889-3
RIGGS, LORRIN A. NB-01453-8

RIGGS, THOMAS R. AM-03709-6
RIGLER, STANLEY P. AM-09453-1
RIKER, ALBERT J. CA-05860-4
RIKER, WALTER F., Jr. NB-01447-8
RIKER, WILLIAM K. NB-05693-1
Riker Labs. Contr. CA-61-3764
RIKMENSPOEL, ROBERT HD-01047-1
RILEY, GENE A. AM-08414-2
RILEY, HARRIS D., Jr. FR-00062-3
RILEY, HARRIS D., Jr. CA-04402-6
RILEY, HARRIS D., Jr. OM-00244-6
RILEY, LEO H. NB-05617-1
RILEY, MATILDA W. HD-00886-3
RILEY, MONICA AI-03895-5
RILEY, RICHARD F. HF-06512-8
RILEY, RICHARD L. HF-01929-10
RILLING, HANS C. GM-08321-5
RINEHART, KENNETH L., Jr. AI-01278-9
RINEHART, KENNETH L., Jr. AI-04769-4
RING, B. ALBERT HE-05174-6
RING, GORDON C. HD-00670-5
RING, JOHN R. DE-00273-10
RINGOLD, HOWARD J. AM-04044-5
RINGWALL, EGAN A. NB-04923-2
RIPPERGER, F. A. GM-12469-1
RIPPERTON, LYMAN A. AP-00355-4
RIPPON, JOHN W. AI-06127-1
RIPPS, HARRIS NB-05487-1
RIS, HANS GM-04738-9
RISER, WAYNE H. HD-00442-3
RISINGER, GERALD E. AM-08590-2
RISS, WALTER NB-04403-2
RISSER, PHILIP C. OM-00434-5
RISTIC, MIODRAG AI-03315-6
RISTIC, MIODRAG HF-05871-5
RITCHIE, CALVIN D. GM-12832-1
RITCHIE, JOSEPH M. NB-01927-8
RITCHIE, JOSEPH M. NB-05803-1
RITTENBERG, DAVID AM-08625-1
RITTENBURY, MAXS AM-03517-6
RITTER, FRANK N NR-05491-1
RITTERSON, ALBERT L. AI-01042-10
RITTS, ROY E., Jr. AI-03663-4
RIVERS, JERRY M. AM-08249-2
RIVERS, JULIAN P. MH-11366-1
RIVIERE, MAYA NB-05398-1
RIVIERE, MAYA NB-05616-2
RIZKI, T M GM-09203-4
ROACH, ARCHIBALD W. AI-01519-8
ROB, CHARLES G. HF-07922-3
ROBB, HERBERT J. HE-09222-1
ROBBINS, ELLIOTT GM-11558-2
ROBBINS, ELLIOTT GM-12182-1
ROBBINS, FREDERICK C. AI-05770-2
ROBBINS, FREDERICK C. FR-00210-1
ROBBINS, HAROLD W. OM-01404-1
ROBBINS, JAMES E. NB-05037-2
ROBBINS, JOHN B. AI-06786-1
ROBBINS, KENNETH C. AI-03185-6
ROBBINS, KENNETH C. HF-04366-7
ROBBINS, LEWIS L. FR-05494-3
ROBBINS, PHILLIPS W. AM-06803-3
ROBBINS, STANLEY L. HF-03790-7
ROBBINS, WILLIAM C. AM-04105-5
ROBEL, ROBERT J. GM-12301-1
ROBERT, LESLIE NB-04693-2
ROBERTS, AUDREY N. AI-04217-4
ROBERTS, BROOKE HE-05213-6
ROBERTS, CLARA S. CA-01488-14
ROBERTS, EUGENE CA-02568-11
ROBERTS, EUGENE NB-01415-7
ROBERTS, JAMES C., Jr. HE-07146-4
ROBERTS, JAMES C., Jr. HF-08455-1
ROBERTS, JAY HE-01165-13
ROBERTS, JOHN D. GM-11072-3
ROBERTS, JOHN F. AI-05872-2
ROBERTS, JOHN L. GM-06377-7
ROBERTS, JOHN M. MH-08161-2
ROBERTS, JOHN M. MH-10986-1
ROBERTS, LAMAR NR-02131-7
ROBERTS, LARRY S. AI-06153-2
ROBERTS, LORIN W GM-12313-1
ROBERTS, PHYLLIS S. HF-04016-7
ROBERTS, R. WINSTON NB-00213-13
ROBERTS, SIDNEY GM-12520-1
ROBERTS, THEODORE S. NB-05456-1
ROBERTS, VERNE L. AC-00054-7
ROBERTS, WALDEN K. CA-07391-2
ROBERTS, WARREN W. MH-06901-3
ROBERTSON, ABEL L., Jr. HE-08253-2
ROBERTSON, ALEXANDER F. AM-09483-1
ROBERTSON, ALEXANDER F. HD-01526-1
ROBERTSON, ALEXANDER V. AM-06890-3
ROBERTSON, DAVID M. CA-06783-3
ROBERTSON, J. DAVID NB-02665-6
ROBERTSON, WILLIAM B. HF-07048-4
ROBERTSON, WILLIAM VAN B. AM-05223-5
ROBIN, EUGENE D. HF-05059-6
ROBIN, EUGENE D. HE-10061-1
ROBINS, ELI MH-04591-5
ROBINS, LEE N. MH-07126-3
ROBINS, ROLAND K. CA-08109-1
ROBINSON, CECIL H. AM-07786-2
ROBINSON, CECIL H. HF-08913-1
ROBINSON, CHARLES N. GM-12480-1
ROBINSON, EDWIN J., Jr. AI-05931-1
ROBINSON, HAMILTON B.G. FR-05323-4
ROBINSON, JAMES E. AM-05584-3
ROBINSON, JOHN P. AI-03125-5
ROBINSON, JOHN S. MH-08832-2
ROBINSON, JOSEPH D. NB-05430-1
ROBINSON, ROBERT A AM-00706-11
ROBINSON, ROBERT A. AM-04993-4
ROBINSON, ROBERT L. AM-06592-3
ROBINSON, ROGER W. HF-02658-9
ROBINSON, ROGER W. HE-03830-7
ROBINSON, ROSCOE R. AM-05930-4
ROBINSON, ROSCOE R. AM-06306-3
ROBINSON, SID CD-00056-2
ROCHA e SILVA, MAURICIO NB-02953-4
ROCHA-MIRANDA, CARLOS E. NB-04651-3
ROCHE, JEAN AM-06860-3
ROCHLIN, DONALD B. CA-05049-6
ROCK, JOHN HD-00076-2
ROCK, JOHN HD-00614-3
ROCKEY, E E CA-05858-4
ROCKEY, JOHN H. AI-05305-3
ROCKMORE, MYRON J. OM-00763-3
ROCKSTEIN, MORRIS HD-00261-4
ROCKSTEIN, MORRIS HD-00571-4
RODAHL, KAARE AM-06212-4
RODAHL, KAARE FR-05585-1
RODANICHE, ENID de AI-04228-3
RODBARD, SIMON HE-08721-2
RODDICK, JOHN W., Jr. HD-01470-1
RODENBERG, SIDNEY D. AI-02531-5
RODERICK, THOMAS H. GM-07249-6
RODERUCK, CHARLOTTE E. AM-05885-3
RODGERS, DAVID A. MH-06139-4
RODIG, OSCAR R. AM-09003-1
RODIN, ALVIN E. CA-07882-2
RODNAN, GERALD P. AM-02727-7
RODNICK, ELIOT H MH-08744-2
RODNIGHT, RICHARD NB-05502-1
RODRIGUES DA SILVA, JOSE AI-05188-2
RODRIGUEZ, J G AI-02770-6
RODRIGUEZ, MARIA I. HF-05475-4
RODRIGUEZ, MARIO S DE-02247-1
RODRIGUEZ-PERALTA, LORENZO NB-03667-4
RODWAN, ALBERT S. MH-11210-1
RODWELL, VICTOR W GM-04448-6
RODWELL, VICTOR W. GM-12048-2
ROE, ANNE R. MH-07308-3
ROE, BENSON B HF-04680-6
ROE, DAPHNE A. AM-05490-5
ROE, JOSEPH H. AM-08741-1
ROEDER, K.D. AI-00947-9
ROELS, OSWALD A. AM-04464-5
ROEMER, MILTON I. CH-00046-4
ROEMER, MILTON I. CH-00102-1
ROENIGK, WILLIAM J. CA-05859-3
ROESEL, CATHERINE E. AI-05245-2
ROESKE, ROGER W. GM-10591-3
ROFFWARG, HOWARD P. MH-06383-4
ROFFWARG, HOWARD P. MH-06858-3
ROGATZ, PETER FR-05496-3
ROGERS, DAVID E. AI-03082-6
ROGERS, DAVID J. GM-11208-3
ROGERS, DEXTER AM-06337-3
ROGERS, GERTRUDE A. OM-00330-4
ROGERS, JAMES B. HD-00156-7
ROGERS, JAMES B. HD-00259-12
ROGERS, LLOYD S. HE-06052-5
ROGERS, MAX T. GM-12530-1
ROGERS, PALMER AI-04893-3
ROGERS, STANFIELD CA-05176-5
ROGERS, STANLEY J. OM-01791-1
ROGERS, QUINTON R. AM-07869-2
ROGERS, WAID AM-07173-3
ROGERS, WILLIAM P. AI-04093-3
ROGLER, JOHN C. AM-04740-5
ROHDE, CHARLES J., Jr. AI-01782-7
ROHDE, RUSSELL A. GM-11794-2
ROHLICH, GERARD WP-00061-3
ROHMAN, MICHAEL HF-04242-6
ROHRER, ROBERT H. RH-00159-2
ROITMAN, HARRY B. CA-07557-2
ROIZMAN, BERNARD CA-04204-7
ROKAW, STANLEY N. AP-00264-2
ROLETT, ELLIS I HF-08580-1
ROLFE, RONALD E. GM-13155-1
ROLLE, GLORIA K. DE-00473-9
Roma Kennels Contr. CA-65-569
ROMAN, HERSCHEL L. AI-00328-14
ROMANO, ANTONIO H. AI-04739-4
ROMANO, JOHN OM-00381-6
ROMANOFF, ALEXIS L. GM-11953-1
ROMANOFF, ELIJAH R HD-01117-1
ROMANUL, FLAVIU C. NB-02603-6
ROME, HOWARD P. MH-06947-3
ROMIENIEC, EDWARD J. HM-00436-1
ROMINGER, C. JULES CA-07184-2
ROMNEY, A. KIMBALL CH-00050-5
RONDELL, PAUL A. OM-08998-4
RONGONE, EDWARD L. AM-08501-2
RONGONE, EDWARD L. AM-09197-1
RONNING, MAGNAR AM-05745-4
ROOFE, PAUL G. NB-03383-1
ROOFE, PAUL G. NB-04992-5
ROONEY, JAMES R. AM-09114-1
ROOS, ALBERT HE-00082-16
ROOS, PHILIP OM-02167-1
ROOSEN-RUNGE, EDWARD C. HD-00471-9
ROOT, ARTHUR OM-01034-3
ROOT, HOWARD F. AM-01907-8
RORER, LEONARD G. MH-08160-2
ROSA, CHARLES G. GM-06008-7
ROSAS, RAMON HE-08322-2
ROSE, ARTHUR HE-05074-5
ROSE, AUGUSTUS S. NB-05688-1
ROSE, AUGUSTUS S. NB-05826-1
ROSE, AUGUSTUS S. NB-05845-1
ROSE, BRAM AI-01322-9
ROSE, ELIZABETH F. CA-06565-2
ROSE, GEORGE G. CA-04824-3
ROSE, GEORGE G. DE-01547-4
ROSE, IRWIN A. CA-07818-2
ROSE, IRWIN A. CA-07819-2
ROSE, JERZY E. NB-02911-5
ROSE, JERZY E. NB-03426-4
ROSE, JOHN C. FR-00060-4
ROSE, KENNETH D. HE-06402-4
ROSE, KENNETH D. HF-08769-2
ROSE, NOEL R. CA-05203-6
ROSE, S. MERYL HD-00225-3
ROSE, SAMUEL CA-05340-5
ROSEBURY, THEODOR CC-00139-1
ROSEMBERG, EUGENIA AM-07564-3
ROSEMAN, EPHRAIM HE-07923-3
ROSEMAN, EPHRAIM NB-02388-8
ROSEMAN, SAUL AM-00512-12
ROSEMOND, GEORGE P. CA-06831-2
ROSEN, BERNARD C. MH-05589-4
ROSEN, FRED AM-04389-5
ROSEN, FRED CA-05671-5
ROSEN, GEORGE MH-06312-4
ROSEN, SAMUEL DE-02058-2
ROSEN, SAMUEL M. AM-09038-1
ROSEN, SIDNEY MH-06685-3
ROSEN, WALTER G. GM-08827-3
ROSENAU, WERNER CA-07191-2
ROSENBAUM, JERRY L AM-08291-2
ROSENBAUM, ROBERT M. GM-05483-7
ROSENBERG, ABRAHAM FR-05589-1
ROSENBERG, ABRAHAM GM-09041-4
ROSENBERG, BARNETT NB-04145-3
ROSENBERG, BENJAMIN G. MH-07994-2
ROSENBERG, CHARLES E. LM-00013-1
ROSENBERG, EUGENE GM-10953-1
ROSENBERG, HARVEY S. HD-00033-2
ROSENBERG, HARVEY S HF-08999-2
ROSENBERG, ISADORE N. AM-02585-7
ROSENBERG, LEON T. AI-05316-3
ROSENBERG, ROBERT M GM-12556-1
ROSENBERG, SHELDON MH-08904-2
ROSENBLATT, DANIEL CD-00104-1
ROSENBLATT, JAY S. MH-08604-2
ROSENBLATT, SEYMOUR MH-04824-5
ROSENBLATT, WILLIAM H. HF-09430-1
ROSENBLITH, JUDY F. NB-03326-5
ROSENBLITH, WALTER A. NB-01344-9
ROSENBLUM, EUGENE D. AI-03093-6
ROSENBLUM, IRA GM-11600-2
ROSENBLUM, LEONARD A. HD-00840-7

ALPHABETICAL LISTING OF INVESTIGATORS

ROSENBLUM, LEONARD A. MH-10380-1
ROSENBLUM, MYRON GM-05978-7
ROSENBLUM, MYRON GM-09662-3
ROSENBLUTH, JACK NB-05725-1
ROSENFELD, MORRIS AM-04077-6
ROSENFELD, SHELDON HF-04868-6
ROSENFIELD, RICHARD E. HF-04456-7
ROSENKRANTZ, JENS G. HE-07741-2
ROSENMAN, RAY H. HF-05121-5
ROSENSTEIN, JOSEPH NB-04380-3
ROSENTHAL, ARTHUR F. AM-07699-2
ROSENTHAL, DONALD GM-09583-4
ROSENTHAL, DONALD GM-12086-2
ROSENTHAL, FRED NB-05813-1
ROSENTHAL, GERALD D. HM-00302-1
ROSENTHAL, HAROLD L. RH-00112-6
ROSENTHAL, IRA M. NB-04703-3
ROSENTHAL, OTTO AM-07217-9
ROSENTHAL, ROBERT L. HE-07300-5
ROSENTHAL, WILLIAM S. AM-04345-3
ROSENZWEIG, MARK R. MH-07903-2
ROSETT, THEODORE AM-06851-3
ROSNER, BURTON S. MH-10848-1
ROSNOW, RALPH L MH-10141-1
ROSOFF, CHESTER B. AI-04398-1
ROSOMOFF, HUBERT L. NB-02469-6
ROSS, A. FRANK AI-02540-7
ROSS, ALAN O. OM-00588-3
ROSS, ALEXANDER T. NB-04347-3
ROSS, BENJAMIN B. HF-04142-5
ROSS, BERNARD MH-09199-1
ROSS, CLEON W. GM-06374-7
ROSS, GILBERT, Jr. AM-08192-2
ROSS, GILBERT S. NB-05859-1
ROSS, JOSEPH C. HF-06228-4
ROSS, LEONARD E. MH-10235-1
ROSS, LEONARD L. NB-05539-1
ROSS, MICHAEL H. AM-05433-4
ROSS, MORRIS H. HD-00086-7
ROSS, MORRIS H. HD-00490-6
ROSS, RICHARD S. HF-05584-5
ROSS, ROBERT T. OM-00952-2
ROSS, RUSSELL DE-01703-4
ROSSANO, AUGUST T., Jr. AP-00336-2
ROSSELLO, JUAN A. OM-01818-2
ROSSI, ALICE S. MH-10072-2
ROSSI, CARLO R. TW-00104-2
ROSSI, CARLO S. TW-00115-2
ROSSI, ENNIO C. HF-08792-2
ROSSI, HARALD H. RH-00099-4
ROSSI, PETER H. MH-05615-4
ROSSI, PETER H. MH-09183-4
ROSSMANN, MICHAEL G. GM-10704-3
ROSTOMILY, CLIFFORD R. FR-05504-3
ROSTON, SIDNEY AM-06525-3
ROSTORFER, HOWARD H. HF-05625-5
ROTBLAT, JOSEPH RH-00272-2
ROTH, EARL E. CC-00008-6
ROTH, FRANK J. AI-02587-6
ROTH, JAY S. CA-07824-2
ROTH, JOHN G. NB-03020-4
ROTH, JULIUS A. CD-00126-1
ROTH, JULIUS A. HM-00437-1
ROTH, KARL L. HF-01919-11
ROTH, L. EVANS HD-01260-5
ROTH, LLOYD J. NB-04500-3
ROTH, LLOYD J. NB-05668-1
ROTH, OSCAR HF-06672-4
ROTH, WILLARD D. AM-08172-2
ROTHBALLER, ALAN B. NB-03987-3
ROTHBLAT, GEORGE H. AM-07533-3
ROTHCHILD, IRVING HD-00028-2
ROTHE, CARL F. HF-07723-3
ROTHEN, ALEXANDRE GM-08815-4
ROTHENBERG, ALBERT MH-10071-2
ROTHENBERG, SHELDON P. AM-06045-4
ROTHENBERG, SHELDON P. AM-09304-1
ROTHENBUHLER, WALTER C. AI-05459-3
ROTHENBUHLER, WALTER C. HD-00368-3
ROTHER, KLAUS O. AM-08986-1
ROTHFIELD, LAWRENCE I AM-08847-1
ROTHMAN, ALVIN H. AI-06442-1
ROTHMAN, ARTHUR R. NB-04395-3
ROTHSCHILD, JOEL A. GM-13259-1
ROTHSCHILD, MARCUS A. AM-02489-7
ROTHSTEIN, HOWARD NB-05425-1
ROTHSTEIN, MORTON AI-03469-6
ROTHSTEIN, MORTON GM-12232-2
ROTKIN, I.D. CA-09684-6
ROUBICEK, CARL B. GM-08677-4
ROUGVIE, MALCOLM A. GM-11127-3
ROUSER, GEORGE CA-03134-9
ROUSER, GEORGE NB-01847-7
ROUSH, ALLAN H. AM-08420-2
ROUSH, GEORGE, Jr. OH-00121-3
ROUSSELOT, LOUIS M. AM-03897-5
ROUSSELOT, LOUIS M. CA-07254-2
ROUSSELOT, LOUIS M. GM-11890-2
ROUSSOS, GERASSIMOS G. AM-05057-4
ROUX, JACQUES F. HD-01184-3
ROUX, JACQUES F. HD-01602-1
ROVIT, RICHARD L. NB-04081-2
ROWE, GEORGE G. HF-07754-2
ROWE, THOMAS FR-05571-1
ROWE, TOM D. GM-11626-1
ROWEN, ROBERT AI-05507-2
ROWLAND, LOYD W. OM-01401-1
ROWLAND, VERNON MH-05439-4
ROWLANDS, DAVID T., Jr. AM-09428-1
ROWLEY, DERRICK AI-03226-6
ROWLEY, DONALD AI-04197-4
ROWLEY, DONALD A. HF-05667-5
ROWLEY, PETER T. AM-07469-2
ROWSELL, HARRY C. HE-06912-4
ROY, IRVING OM-01377-2
ROYCE, PAUL C. AM-05116-5
ROZE, JANIS A. AC-00136-2
ROZEBOOM, LLOYD E. AI-00351-13
ROZIJN, THOMAS H. TW-00050-3
RUBEN, LAURENS N. HD-01234-9
RUBENSTEIN, IRWIN GM-11797-2
RUBIN, ALAN CA-09683-6
RUBIN, BETTY L. AM-01752-7
RUBIN, BETTY L. AM-02795-6
RUBIN, BETTY L. AM-08422-1
RUBIN, CYRUS E. CA-04320-7
RUBIN, HARRY CA-04774-6
RUBIN, HARRY CA-05619-4
RUBIN, LEONARD S. MH-10784-1
RUBIN, LIONEL F. NB-04602-2
RUBIN, MITCHELL I. FR-05493-3
RUBIN, MITCHELL I. HD-00294-3
RUBIN, MORDECAI B. AM-03943-5
RUBIN, PHILIP CA-06630-6
RUBIN, ROBERT J. AM-09392-1
RUBIN, RONALD P. AM-09237-1
RUBINI, JOSEPH R. CA-07613-2
RUBINI, JOSEPH R. CA-08063-1
RUBINI, MILTON E. AM-07188-3
RUBINI, MILTON E. AM-08642-1
RUBINSTEIN, HERBERT M. AM-06203-4
RUBINSTEIN, LUCIEN J. CA-08237-1
RUCH, THEODORE C. GM-03774-12
RUDALL, KENNETH M. GM-07399-6
RUDDLE, FRANK H. GM-09966-3
RUDIN, EDWARD OM-01994-1
RUDMAN, DANIEL AM-06056-4
RUDNICK, BETTY NU-00042-4
RUDOLPH, ABRAHAM M. HF-08378-2
RUEBNER, BORIS H. AI-03598-5
RUEDEMANN, ALBERT D. NB-05641-1
RUEGAMER, WILLIAM R. AM-06292-4
RUEGAMER, WILLIAM R. HF-04567-6
RUFF, GEORGE E. MH-10215-1
RUFFIN, JULIAN M. AM-07549-2
RUGH, ROBERTS NB-02116-6
RUGH, ROBERTS RH-00081-4
RUHM, HOWARD B. NB-03290-3
RUHM, HOWARD B. NB-05197-2
RULIFFSON, W.S. AM-04969-4
RUNCO, VINCENT, Jr. HF-07800-3
RUND, JOHN V. GM-11989-2
RUNDLES, R. WAYNE CA-03177-9
RUNQUIST, OLAF A. AI-03095-6
RUNQUIST, WILLARD N. HD-00948-2
RUPERT, CLAUD S. RH-00221-3
RUPLEY, JOHN A. GM-09410-4
RUSCH, HAROLD P. CA-07175-2
RUSH, BENJAMIN F., Jr. AM-06956-4
RUSHFORTH, NORMAN B. MH-10734-1
RUSHMER, ROBERT F. HE-07293-4
RUSHTON, WILLIAM A.H. NB-03014-5
RUSS, CLEM HE-07847-3
RUSSE, HENRY PAUL AM-08763-1
RUSSELL, ELIZABETH S. CA-01074-15
RUSSELL, FINDLAY E. AI-03751-5
RUSSELL, FRANCIS W. OM-02071-1
RUSSELL, JEROME, A.G. FR-00241-1
RUSSELL, PAUL S AI-04320-1
RUSSELL, PAUL S. AM-07055-3
RUSSELL, PERCY J. AM-08747-1
RUSSELL, PERCY J. GM-10350-3
RUSSELL, ROGER W. MH-06997-3
RUSSELL, WILLIAM O. CA-01751-12
RUSSELL, WILLIAM O. CA-06939-2
RUSSELL, WILLIAM O. CA-09724-5
RUSSFIELD, AGNES B. CA-04142-4
RUSTAGI, JAGDISH S. OH-00180-2
RUSTIGIAN, ROBERT AI-01675-8
RUSY, BEN F. HE-07646-3
RUTENBURG, ALEXANDER M. CA-02528-10
RUTENBURG, ALEXANDER M. CA-02677-10
RUTENBERG, ALEXANDER M. CA-02972-6
Rutgers Univ. Contr. CA-65-1039
Rutgers Univ. Contr. DRFR-65-600
RUTLEDGE, LESTER T. NB-04119-3
RUTLEDGE, LEWIS J. NB-03782-4
RUTMAN, ROBERT J. CA-05295-5
RUTSTEIN, DAVID D. HE-00934-5
RUTSTEIN, DAVID D. HE-03989-6
RUTTENBERG, BERTRAM A. OM-00982-4
RUTTENBERG, HERBERT D. HE-09586-1
RUTTER, WILLIAM J. HD-01250-8
RYAN, CLARENCE A., Jr. GM-12505-1
RYAN, KENNETH J. AM-05370-4
RYAN, KENNETH J. AM-05739-4
RYAN, ROBERT J. AM-03758-6
RYAN, THOMAS J. HE-08439-2
RYAN, WAYNE L. AM-09288-1
RYAN, WAYNE L. CA-08272-1
RYNEARSON, ROBERT R. MH-10495-1
RYSER, HUGUES, J.P. GM-08482-4
SAACKE, RICHARD G. HD-01877-1
SAALWAECHTER, GENE OM-01667-2
SAATHOFF, DONALD E. HM-00315-1
SABAWALA, PHIROZE B. NB-05842-1
SABIN, ALBERT B. CA-04557-6
SABINE, JEAN C. CA-06754-3
SABISTON, DAVID C., Jr. HE-09315-1
SABLE, HENRY Z. AM-07719-2
SACHAR, EDWARD J MH-06745-3
SACHS, GEORGE AM-08541-1
SACHS, HOWARD AM-02450-7
SACHS, LEO CA-05266-5
SACHS, MARVIN L. NU-00146-1
SACKS, JACOB AM-02138-6
SACKS, JACOB AM-07273-3
SACKS, SEYMOUR CH-00110-1
SACKS, WILLIAM MH-03666-5
SADLER, WALTER W FF-00644-1
SADLER, WILLIAM A. AM-08079-2
SADOFF, HAROLD L. AI-01863-8
SAENGER, EUGENE L. CA-06500-4
SAFFIOTTI, UMBERTO CA-06163-4
SAFFRAN, MURRAY NB-03380-4
SAFILIOS-ROTHSCHILD, CONSTANTINA MH-11438-1
SAFIR, ARAN NB-05895-1
SAFIR, ARAN NB-05896-1
SAGAR, WILLIAM C. GM-10206-2
SAGAWA, KIICHI HF-04735-6
SAGAWA, KIICHI HE-09644-1
SAGE, BRUCE H. AP-00107-6
SAGE, BRUCE H AP-00108-6
SAGE, HAROLD H. DF-00546-9
SAGE, HARVEY J. AI-06710-1
SAGE, MARTIN L. CA-06412-3
SAGER, RUTH GM-12325-9
SAGER, WILLIAM F. GM-13552-1
SAHS, A.L. NB-02379-7
SAHS, ADOLPH L. NB-04373-3
SAID, SAMI I HF-04226-6
SAIDEL, LEO J. GM-09434-4
SAIFER, ABRAHAM NB-00285-11
SAINATO, HELEN K. MH-10642-1
St. CLAIR, LORENZ E. AM-05158-3
St. GEME, JOSEPH W., Jr. AI-04702-2
ST. LAWRENCE, PATRICIA GM-07664-5
St. Louis Univ. Sch. Med. Contr. AI-64-928
SAKAGUCHI, BUNGO GM-10238-3
SAKAGUCHI, GENJI FF-00361-1
SAKAMI, WARWICK AM-08098-2
SAKO, KUMAO CA-06118-4
SAKO, KUMAO CA-07438-2
SAKODA, JAMES M. MH-08177-2
SALAFSKY, BERNARD P. NB-05679-1
SALEM, LIONEL GM-12343-1
SALGADO, ERNESTO D. HF-07083-3
SALHANICK, HILTON A. AM-04347-4
SALIK, JULIAN O. AM-07051-3
SALISBURY, PETER F HE-08762-1
SALISBURY, RICHARD F. MH-07019-2
Salk Institute Contr. HD-65-581

SALK, JONAS E. FR-05595-1
SALLACH, H.J. AM-00922-10
SALLEY, JOHN J. DE-02010-3
SALLEY, JOHN J. FR-05317-4
SALLMAN, BENNETT HE-04704-6
SALMON, JOHN T. GM-10207-3
SALMON, PETER A. AM-06373-3
SALMON, W.D. AM-01175-6
SALMON, W.D. CA-01018-17
SALMON, W.D. CA-02771-9
SALMON, W.D. HE-02615-9
SALTMAN, PAUL D. AM-05494-4
SALTZMAN, HERBERT A. HE-07896-3
SALTZMAN, HERBERT A. HE-09218-1
SALUNKHE, D.K. EF-00449-2
SALVAGGIO, JOHN E. AI-05754-2
SALVAGGIO, JOHN F. AI-06097-2
SALWEN, MARTIN J. CA-07215-1
SALZANO, FRANCISCO M. GM-08238-4
SALZANO, JOHN V. NB-03897-4
SALZINGER, KURT MH-07477-3
SALZINGER, KURT MH-07759-1
SALZMAN, EDWIN W. HE-08028-2
SALZMAN, THEODORE C. AI-06359-1
SAM, JOSEPH CA-07857-2
SAM, JOSEPH MH-05292-3
SAMACHSON, JOSEPH DE-02005-2
SAMBHI, MOHINDER P. HE-09142-1
SAMELLAS, WILLIAM AM-07971-2
SAMET, PHILIP HE-08503-2
SAMITZ, M.H. OH-00034-7
SAMLOFF, I. MICHAEL AM-08956-1
SAMORAJSKI, THADDEUS HD-00605-3
SAMORAJSKI, THADDEUS NB-03021-5
SAMORAJSKI, THADDEUS NB-03853-4
SAMPSON, EDWARD E. MH-06506-3
SAMSON, FREDERICK E., Jr. NB-01151-9
SAMSON, FREDERICK E., Jr. NB-03070-4
SAMTER, MAX AI-01855-8
SAMUEL, PAUL HE-07188-3
SAMUELS, LEO T. AM-06730-3
SAMUELS, ROBERT AI-05932-2
SAMUELS, STANLEY MH-10359-1
SAMUELSON, A.F. OM-02007-1
SANAZARO, PAUL J. CH-00148-1
SANCETTA, SALVATORE M. HE-04302-7
SAN CLEMENTE, CHARLES L. AI-05926-2
SANCHEZ LONGO, LUIS P. NB-06240-1
SANDBERG, AVERY A. AM-01240-9
SANDBERG, AVERY A. GM-09914-3
SANDBERG, DOUGLAS H. AM-08940-1
SANDBERG, EUGENE C. AM-08220-2
SANDBERG, HERSCHEL HE-05279-6
SANDDAL, JAMES W. OM-01816-1
SANDERS, AARON P. CA-07580-2
SANDERS, BENJAMIN E. MH-06111-4
SANDERS, CHARLES A. HE-08898-2
SANDERS, RICHARD OM-00126-6
SANDERS, RICHARD OM-01563-2
SANDERS, RICHARD J. AM-06887-2
SANDERSON, GLEN C. CC-00047-9
SANDERSON, GLEN C. CC-00052-2
SANDIFER, MYRON G., Jr. MH-08800-2
SANDIFER, MYRON G., Jr. MH-10812-1
SANDIFER, MYRON G., Jr. MH-10890-1
SANDIFER, MYRON G., Jr. MH-11045-1
SANDIFER, MYRON G., Jr. MH-11046-1
SANDIFER, MYRON G., Jr. MH-11047-1
SANDINE, WILLIAM E. EF-00069-4
SANDLER, JACK MH-06581-3
SANDLER, LAURENCE M. GM-09965-3
SANDOW, ALEXANDER NB-04262-3
SANDS, RICHARD H. GM-12176-1
SANDSON, JOHN I. AM-07343-2
SANFORD, JAY P. HD-00851-7
SANFORD, NEVITT MH-09181-4
SANGER, PAUL W. HE-08427-2
Sanlab Contr. NB-65-603
SANO, SEIYO GM-11793-1
SAN PIETRO, ANTHONY GM-10129-3
SANTADUSIT, AROON TW-00048-3
SANTER, MELVIN GM-11738-2
SANTILLI, VINCENT CA-07300-2
SANTOS, DAVID TW-00105-1
SANTOS-BUCH, CHARLES A. HE-08012-3
SAPIRSTEIN, LEO A. HE-09210-1
SAPIRSTEIN, LEO A. HE-09327-1
SAPIRSTEIN, MILTON R. OM-00607-3
SARASON, IRWIN G. MH-08830-1
SARASON, SEYMOUR B. MH-00712-12
SARBIN, THEODORE R. MH-08565-2
SARBIN, THEODORE R. MH-08676-1
SARCIONE, EDWARD J. AM-04961-5
SAREYAN, ALEX OM-01645-1
SARGENT, DOUGLAS A. OM-01551-3
SARIC, MARKO TW-00131-1
SARKANEN, KYOSTI V. AP-00363-1
SARLES, HARRY F. HE-09183-1
SARNAT, BERNARD G. HD-00179-2
SARTWELL, PHILIP E. HE-08356-1
SASA, MANABU CC-00017-5
SASKI, WITOLD AM-08576-2
SASLAW, SAMUEL AI-05269-3
SASLAW, SAMUEL A AI-03919-5
SASTRY, B.V. RAMA NB-04699-2
SATIR, PETER GM-09732-4
SATO, GORDON H CA-04123-7
SATTERFIELD, JAMES N MH-04808-3
SATTERFIELD, JAMES H. MH-05806-4
SAUERS, RONALD R. GM-08701-4
SAUKKONEN, JUSSI J. AI-04789-3
SAUL, GEORGE B., II GM-04751-9
SAUL, LEON J. MH-07615-3
SAUNDERS, ALEX M. AM-06992-3
SAUNDERS, JOHN W., Jr. GM-07607-5
SAUNDERS, JOHN W., Jr. GM-09996-3
SAUNDERS, LEON Z. GM-10337-2
SAUNDERS, MARTIN GM-11675-2
SAUNDERS, STUART J. TW-00153-1
SAUNDERS, WILLIAM H. NB-05816-1
SAUTTER, JAY H. HE-04398-5
SAVARA, BHIM S. HD-00157-5
SAVARD, KENNETH CA-04004-8
SAVITSKY, J. PHILLIP AM-02286-7
SAWADA, YOSHIAKI HD-01077-1
SAWIN, PAUL B. CA-00281-18
SAWREY, WILLIAM L. MH-05287-4
SAWYER, CHARLES H AM-08468-2
SAWYER, CHARLES H. NB-01162-9
SAWYER, JACK MH-05350-4
SAWYER, PHILIP N. HE-07371-3
SAWYER, PHILIP N. HE-07821-3
SAWYER, PHILIP N. HE-09212-1
SAWYER, WILBUR H. AM-01940-7
SAX, KARL RH-00294-2
SAX, MARTIN HE-09068-1
SAX, N. IRVING RH-00412-1
SAX, SYLVAN M. AI-03949-5
SAX, SYLVAN M. CA-08262-1
SAXE, LEROY H., Jr. AI-05500-3
SAXE, STANLEY R. DH-00082-1
SAYEN, JOHN J. HE-00398-16
SAYRE, FRANCIS W. AM-06004-4
SAZ, ARTHUR K. AI-06497-1
SAZ, HOWARD J. AI-05290-3
SBARRA, ANTHONY J. CA-05307-5
SCALIA, FRANK NB-05218-2
SCANU, ANGELO M. HE-08727-2
SCARANO, EDUARDO HD-01268-4
SCARPELLI, DANTE G. CA-05315-5
SCARPELLI, EMILE M. HE-09659-1
SCARPINO, PASQUALE V. WP-00844-1
SCATLIFF, JAMES H. NB-05543-1
SCHACHER, JOHN F. AI-05195-3
SCHACHMAN, HOWARD K. GM-12159-2
SCHACHTER, DAVID AM-01483-9
SCHACHTER, DAVID AM-04407-5
SCHADE, JOHANNES P. MH-06825-3
SCHADE, JOHANNES P. NB-03048-5
SCHAECHTER, MOSELIO AI-05103-2
SCHAEFER, HALMUTH H. MH-10093-2
SCHAEFER, THEODORE, Jr. HD-01284-1
SCHAEFER, WERNER B. AI-04344-4
SCHAEFFER, FRANCES C. CA-07559-2
SCHAEFFER, HOWARD J. GM-09775-4
SCHAEFFER, MORRIS AI-04161-4
SCHAEFFER, ROBERT W. MH-08775-2
SCHAFER, IRWIN A. HD-00560-4
SCHAFFER, ERVIN M. FR-05322-4
SCHAFFNER, CARL P. AI-06182-1
SCHAFFNER, CARL P. AI-02095-7
SCHAIN, RICHARD J. NB-04785-2
SCHAIN, RICHARD J. NB-05231-1
SCHALCH, DON S. AM-08943-1
SCHALLY, ANDREW V. AM-07467-2
SCHALLY, ANDREW V. AM-08743-1
SCHANDERL, SIGMUND H. FF-00531-2
SCHAPIRA, GEORGES AM-02773-7
SCHARF, BERTRAM NB-04464-3
SCHARFF, MATTHEW D. AI-05231-1
SCHARRER, BERTA NB-00840-11
SCHARRER, BERTA V. AM-03984-8
SCHARRER, ERNST A. NB-05219-1
SCHATTEN, WILLIAM E. CA-07758-1
SCHECHTER, MANNIE M. NB-04165-3
SCHEER, BRADLEY T. AM-03539-6
SCHEIBE, KARL E. OM-02127-1
SCHEIBEL, ARNOLD B. HD-00972-1
SCHEIBEL, ARNOLD B. NB-01063-9
SCHEINBERG, I. HERBERT AM-01059-10
SCHEINBERG, LABE C. CA-06264-4
SCHEINBERG, LABE C. NB-05837-1
SCHEINBERG, PERITZ HE-06641-4
SCHEINBERG, PERITZ NB-05654-1
SCHEINESSON, GEORGE P. NB-04969-1
SCHELLENBERG, JAMES A. MH-11093-1
SCHELLENBERG, KARL A. GM-11799-2
SCHELLMAN, JOHN A. CA-04216-8
SCHELLMAN, JOHN A. GM-09295-4
SCHENK, ERIC A. HE-06089-5
SCHENK, GEORGE H., Jr. GM-07760-4
SCHENK, WORTHINGTON G., Jr. HE-03181-8
SCHENKER, STEVEN NB-05841-1
SCHENKER, VICTOR J. MH-07219-2
SCHENTHAL, JOSEPH E. GM-09534-4
SCHEPENS, CHARLES L. NB-03489-4
SCHER, ALLEN H. FR-00242-1
SCHER, ALLEN M. HE-01315-13
SCHER, ALLEN M. HE-07746-3
SCHERAGA, HAROLD A. AI-01473-11
SCHERAGA, HAROLD A. AM-08465-2
SCHERAGA, HAROLD A. HE-01662-13
SCHERBAUM, OTTO H. GM-06461-6
SCHERER, KIRBY V., Jr. GM-12731-1
SCHERR, LAWRENCE HE-02054-9
SCHEUER, JAMES HE-09727-1
SCHEUER, PAUL J. EF-00224-7
SCHEUER, PAUL J. GM-10413-3
SCHEVING, LAWRENCE E. AM-04659-4
SCHIAVI, RAUL C. MH-11091-1
SCHIEBLER, GEROLD L. HE-05407-4
SCHIEFELBUSCH, R.L. HD-00870-2
SCHIEFELBUSCH, RICHARD L. OM-01127-2
SCHIELE, BURTRUM C. MH-05106-4
SCHIFF, GILBERT M. HD-00737-1
SCHIFF, LEON AM-05333-4
SCHIFF, LEON AM-06204-3
SCHILLER, EVERETT L. AI-01508-9
SCHILLER, PETER H. MH-11745-1
SCHILLER, SARA AM-07821-2
SCHILLING, ROBERT F. AM-04249-5
SCHILLING, ROBERT F. AM-05630-3
SCHINDLER, WILLIAM J. AM-06104-3
SCHIRCH, LAVERNE GM-11429-2
SCHLAG, JEAN D. NB-04955-2
SCHLAGER, GUNTHER HE-09331-1
SCHLAMOWITZ, MAX AM-09322-1
SCHLANT, ROBERT C. CA-06935-3
SCHLANT, ROBERT C. HE-08005-3
SCHLEGEL, DAVID E. AI-03415-5
SCHLEGEL, JORGEN U. HE-04659-6
SCHLENK, HERMANN AM-05165-4
SCHLENK, HERMANN GM-07917-5
SCHLENK, HERMANN HE-05363-6
SCHLESINGER, ALLEN B. GM-06594-6
SCHLESINGER, BENNO HE-03953-6
SCHLESINGER, LAWRENCE E. AC-00064-5
SCHLESINGER, MICHAEL TW-00151-1
SCHLESINGER, R. WALTER AI-05920-3
SCHLESINGER, R. WALTER AI-06011-2
SCHLESINGER, SONDRA AM-09226-1
SCHLESSINGER, DAVID GM-10447-3
SCHLICHTING, HAROLD E., Jr. AP-00137-4
SCHLICHTING, HAROLD E., Jr. GM-10455-2
SCHLICHTING, HAROLD E., Jr. WP-00604-2
SCHLOERB, PAUL R. HE-02363-9
SCHLOTFELDT, ROSELLA M. NU-00068-2
SCHLOTFELDT, ROZELLA M. NU-00069-3
SCHLUEDERBERG, ANN E. AI-04776-3
SCHMEDTJE, JOHN F. NB-02334-7
SCHMID, HERMAN E., Jr. HE-05948-5
SCHMID, HERMAN E., Jr. HE-07842-3
SCHMID, RUDI AM-07091-3
SCHMID, KARL GM-10374-3
Schmidt Company Contr. CA-63-94
Schmidt Company Contr. CA-65-561
SCHMIDT, ANTHONY J. GM-06208-6
SCHMIDT, GERHARD HE-03457-9
SCHMIDT, GERHARD NB-00356-17
SCHMIDT, GILBERT C. GM-08447-4
SCHMIDT, HANS, Jr. MH-10641-1
SCHMIDT, JAMES F. MH-10186-1
SCHMIDT, JOHN J. HE-09704-1

ALPHABETICAL LISTING OF INVESTIGATORS

SCHMIDT, KURT F.	NB-04981-2
SCHMIDT, L.H.	AI-05888-3
SCHMIDT, L.H.	AI-05891-3
SCHMIDT, ROBERT R.	GM-12042-2
SCHMIDT, V. HUGO	GM-12383-1
SCHMIDT, WILLARD C.	AI-05224-3
SCHMIDT, WILLIAM M.	OM-00638-4
SCHMIDT-NIELSEN, BODIL	AM-09398-1
SCHMIDT-NIELSEN, KURT	HE-02228-10
SCHMIR, GASTON L.	AM-04288-5
SCHMITT, FRANCIS O	GM-10211-4
SCHMITT, FRANCIS O.	NB-00024-16
SCHMITT, OTTO H.	HE-00513-16
SCHMITT, OTTO H.	HE-07575-3
SCHNATZ, J. DAVID	AM-06872-3
SCHNEIDAU, JOHN D., Jr.	AI-02580-6
SCHNEIDER, ALBERT J.	HD-01576-1
SCHNEIDER, ALLEN M	MH-10647-1
SCHNEIDER, ARTHUR S.	HE-07756-3
SCHNEIDER, CHARLES L.	HE-08397-1
SCHNEIDER, DAVID M.	MH-07718-1
SCHNEIDER, DAVID M.	MH-08194-2
SCHNEIDER, DAVID M.	MH-10783-1
SCHNEIDER, HOWARD A.	AI-03207-6
SCHNEIDER, HOWARD A.	NB-01565-8
SCHNEIDER, JOHN J.	AM-01255-9
SCHNEIDER, MONROE	AM-07277-3
SCHNEIDER, NATHAN J.	FF-00309-2
SCHNEIDER, RICHARD C.	NB-03620-3
SCHNEIDER, ROBERT A.	NB-00286-13
SCHNEIDER, ROSE G.	AM-00780-14
SCHNEIDERMAN, HOWARD A.	HE-06320-5
SCHNEYER, CHARLOTTE A.	DE-01674-4
SCHNEYER, LEON H.	DE-00931-7
SCHNEYER, LEON H.	DE-02110-1
SCHNITZLEIN, H.N.	NB-04295-3
SCHOCH, HENRY K	AM-07798-2
SCHOCH, HENRY K.	CA-04843-6
SCHOEN, EDGAR J.	AM-05723-3
SCHOENBERG, HARRY W.	AM-08090-2
SCHOENBERG, MELVIN D.	AM-07161-2
SCHOENFELD, WILLIAM N	MH-08006-3
SCHOENFELD, WILLIAM N.	MH-08097-1
SCHOENHOLZ, WALTER K.	AI-06606-1
SCHOEPFLE, GORDON M.	NB-00173-14
SCHOLANDER, PER F.	GM-10521-3
SCHOLES, VERNON E.	CA-07527-2
SCHOTTSTAEDT, WILLIAM W.	FR-00005-4
SCHOOLER, KERMIT K.	EF-00654-1
SCHOOLMAN, ARNOLD	NB-04564-2
SCHOPLER, ERIC	OM-01205-3
SCHOTTE, OSCAR E.	HD-01230-12
SCHOTTELIUS, BYRON A.	GM-10205-3
SCHOTZ, MICHAEL C.	AM-04706-5
SCHOWEN, RICHARD L.	GM-12477-1
SCHRAER, HARALD	DE-01764-3
SCHRAER, ROSEMARY	AM-05970-4
SCHRAM, ALFRED C.	CA-06991-3
SCHRAMEL, ROBERT J.	HF-05637-5
SCHRAMM, GERHARD F.	CA-04601-6
SCHRAMM, LEE C.	FF-00483-2
SCHRAMM, MICHAEL	AI-03426-6
SCHRIBER, MELVYN H	HF-07115-3
SCHREIER, PHIL C.	CA-07389-3
SCHREIL, WERNER H.	GM-11759-2
SCHREINER, BERNARD F., Jr.	HE-08494-3
SCHREK, ROBERT	CA-06631-3
SCHREK, ROBERT	CA-07541-2
SCHRENK, WILLIAM G.	GM-08524-4
SCHRIER, ALLAN M.	MH-07136-3
SCHRIER, EUGENE E.	GM-11762-2
SCHRIER, STANLEY L.	HE-05305-6
SCHRODER, J. SPALDING	AM-08631-2
SCHRODT, GEORGE R.	CA-05676-5
SCHROEDER, HENRY A.	HF-05076-6
SCHROEDER, HERBERT A.	WP-00823-1
SCHROEDER, WALTER A.	HF-02558-9
SCHROEPFER, GEORGE J.	FF-00395-3
SCHROEPFER, GEORGE J., Jr.	HE-09501-2
SCHTEINGART, DAVID E.	AM-05951-4
SCHUBERT, EARL D.	NB-05988-1
SCHUBERT, LEO	GM-11596-2
SCHUBERT, MAXWELL	AM-00028-14
SCHUBERT, MAXWELL	AM-04396-5
SCHUBERT, WILLIAM K.	AM-04344-5
SCHUCK, EDWARD A.	AP-00289-3
SCHUCK, JOHN R.	MH-10754-1
SCHUDER, JOHN C.	HE-05854-5
SCHUERCH, CONRAD	GM-06168-7
SCHUKNECHT, HAROLD F.	NB-03932-4
SCHUKNECHT, HAROLD F.	NB-04156-3
SCHUKNECHT, HAROLD F.	NB-04720-3
SCHULMAN, JACK H.	NB-02067-7
SCHULMAN, HERBERT M.	AM-08250-2
SCHULMAN, IRVING	HD-00568-5
SCHULMAN, IRVING	HE-07418-3
SCHULMAN, MARTIN P.	CA-05661-4
SCHULMAN, MARTIN P.	MH-04559-5
SCHULMAN, SIDNEY	MH-10213-1
SCHULTES, RICHARD E.	MH-06913-2
SCHULTZ, HAROLD W.	EF-00766-1
SCHULTZ, HARRY P.	GM-11968-2
SCHULTZ, HERBERT F.	OM-01735-2
SCHULTZ, IRWIN	AI-06632-1
SCHULTZ, JACK	CA-01613-14
SCHULTZ, JULIUS	CA-03715-9
SCHULTZ, JULIUS	CA-05152-6
SCHULTZ, LORIS H.	AM-08546-1
SCHULTZ, RICHARD L.	HD-00496-5
SCHULTZ, ROBERT B.	CA-08218-1
SCHULTZ, ROBERT L.	NB-05642-1
SCHULTZ-HAUDT, STIG D.	DE-01472-4
SCHULTZE, ANDREW B.	GM-11129-3
SCHULTZE, M.O.	GM-04730-9
SCHULZ, ARTHUR R.	AM-08944-1
SCHUMACHER, GEORGE A.	NB-05832-1
SCHUMACHER, WILLIAM E.	OM-01905-1
SCHUMAKER, VERNE N.	GM-10837-7
SCHUMAN, LEONARD M.	HE-07097-4
SCHUMAN, LEONARD M.	OH-00051-8
SCHUMANN, FRED	GM-09607-3
SCHUMER, WILLIAM	GM-12160-1
SCHURIN, MIRIAM F.	GM-07781-5
SCHURTER, BETTYE S.	OM-01755-2
SCHUSTER, CHARLES R.	MH-08506-2
SCHUSTER, MARVIN M.	AM-06352-3
SCHUSTER, MARVIN M.	AM-07862-2
SCHWAB, JOHN H.	AI-00949-10
SCHWABE, ARTHUR D.	AM-09082-1
SCHWAN, HERMAN P.	HE-01253-13
SCHWANDT, ALLEN L.	AM-06962-3
SCHWARTING, ARTHUR E.	GM-10070-3
SCHWARTZ, ARNOLD	HE-07906-3
SCHWARTZ, ARTHUR L.	OM-00990-3
SCHWARTZ, ARTHUR S.	MH-07997-2
SCHWARTZ, ARTHUR S.	NB-03528-4
SCHWARTZ, BERNARD	NB-01820-7
SCHWARTZ, BERNARD	NB-05224-2
SCHWARTZ, FRED	MH-07220-3
SCHWARTZ, HERBERT C.	HE-07184-4
SCHWARTZ, IRVING L.	AM-05535-4
SCHWARTZ, MANUEL	GM-10523-3
SCHWARTZ, MARVIN	MH-11231-1
SCHWARTZ, MICHAEL A.	AI-06173-2
SCHWARTZ, NEENA B.	HD-00440-4
SCHWARTZ, NEENA B.	NB-03801-5
SCHWARTZ, ROBERT	AM-06795-2
SCHWARTZ, SAMUEL	CA-07845-1
SCHWARTZ, SAMUEL	HE-10046-1
SCHWARTZ, SEYMOUR I.	HE-07354-2
SCHWARTZ, SEYMOUR I.	HE-08432-2
SCHWARTZ, THEODORE B.	AM-05760-4
SCHWARTZ, THEODORE B.	AM-06739-3
SCHWARTZ, WILLIAM B.	HE-00759-15
SCHWARTZBAUM, JEROME S.	MH-10801-1
SCHWARZ, HENRY P.	GM-09698-3
SCHWARZ, HENRY P.	NB-00976-9
SCHWARZ, HENRY P.	NB-04394-3
SCHWARZ, JAN	AI-00576-12
SCHWARZ, KLAUS	AM-08669-2
SCHWEDA, PAUL	GM-11699-2
SCHWEET, RICHARD S.	HE-05293-5
SCHWEIGERT, B.S.	EF-00284-3
SCHWEIZER, EDWARD E.	GM-12692-1
SCHWERDT, CARLTON E.	CA-04625-6
SCHWERT, GEORGE W.	GM-06635-6
SCHWERT, GEORGE W.	GM-12928-1
SCHWINCK, ILSE	GM-10256-3
SCHWINGHAMER, ERWIN A.	GM-12131-1
SCIARRA, JOHN J.	HD-00532-5
Science Prod. Corp.	Contr. AM-65-608
SCITOVSKY, ANNE A.	CH-00066-2
SCIUCHETTI, LEO A.	GM-10963-2
SCOTT, BRUCE I.H.	GM-10177-3
SCOTT, DAVID R.	WP-00720-1
SCOTT, DONALD, Jr.	DE-02062-2
SCOTT, EARL B.	AM-00289-16
SCOTT, EARL B.	HD-01186-3
SCOTT, EARL D.	MH-08886-2
SCOTT, F. BRANTLEY	NB-03751-3
SCOTT, FLORENCE M., SISTER	GM-03797-12
SCOTT, FRANCES G.	MH-07566-3
SCOTT, GEORGE T.	MH-03903-6
SCOTT, GEORGE W.	HE-05732-4
SCOTT, H. WILLIAM, Jr.	AM-06972-3
SCOTT, H. WILLIAM, Jr.	AM-07543-2
SCOTT, H. WILLIAM, Jr.	HF-03047-9
SCOTT, H. WILLIAM, Jr.	HF-06647-4
SCOTT, JERRY B.	HE-08924-2
SCOTT, JESSE F.	CA-00558-18
SCOTT, JOHN C.	HE-03815-7
SCOTT, JOHN C.	HE-04419-6
SCOTT, JOHN P.	HD-01082-1
SCOTT, JOSEPH L.	HE-03829-7
SCOTT, L. VERNON	HD-00194-10
SCOTT, MILTON L.	NB-05632-1
SCOTT, RALPH C.	HE-08578-2
SCOTT, ROLAND B.	HD-00645-2
SCOTT, T.F. McNAIR	FR-05506-3
SCOTT, WILLIAM A.	MH-07998-2
SCOVILLE, WILLIAM B.	MH-02267-7
SCREVEN, C.G.	MH-11407-1
SCRIBNER, BELDING H.	AM-06741-3
SCRIBNER, BELDING H.	HD-00562-4
SCRIMGEOUR, K. GRAY	AM-08124-2
SCRIMSHAW, NEVIN S.	AM-06274-4
SCRIMSHAW, NEVIN S	FR-00088-2
Scripps Clinic Res. Fdn.	Contr. CA-65-14
SCRIVER, CHARLES R.	AM-05117-5
SEADERS, JOHN	WP-00684-2
SEAGER, LLOYD D.	HD-00714-1
SEAGER, LLOYD D.	HE-07567-4
SEAL, ULYSSES S.	CA-05993-4
SEALE, ARTHUR L.	OM-01780-1
SEALY, WILL C.	HE-01782-11
SEAMAN, ARTHUR J.	HE-05878-5
SEAMAN, ARTHUR J.	HE-08907-1
SEAMAN, GERALD R.	AI-04092-3
SEARLE, GORDON W.	HE-06853-3
SEARLES, SCOTT, Jr.	RH-00300-2
SEARS, DEWEY F.	GM-07072-6
SEARS, E.R.	GM-12401-1
SEARS, MARVIN L.	AI-04093-2
SEARS, MARVIN L.	NB-03781-4
SEARS, MARVIN L.	NB-04695-3
SEARS, WILLIAM F.	OM-01389-2
SEBEOK, THOMAS A.	MH-07488-2
SEBRELL, WILLIAM H.	AM-05285-5
SECHZER, JERI A.	MH-10792-1
SEDAR, ALBERT W.	GM-04810-9
SEDLANDER, NORMAN R.	FF-00502-2
SEEBODE, JOSEPH J.	AM-08573-1
SEECOF, ROBERT L.	AI-05038-3
SEED, JOHN C.	AM-07371-3
SEEGAL, BEATRICE C.	HF-03929-7
SEEGERS, WALTER H.	HE-03424-8
SEEGERS, WALTER H.	HE-05141-5
SEEGERS, WINNIFRED	HE-08556-2
SEELY, J. RODMAN	HD-01190-1
SEFMAN, MELVIN	MH-10460-1
SEEVERS, MAURICE H.	MH-05320-4
SEGAL, BERNARD E.	CH-00082-2
SEGAL, EVALYN F.	MH-08505-2
SEGAL, HAROLD L.	AM-08873-1
SEGAL, HARRY L.	CA-09546-8
SEGAL, MAURICE S.	AI-05529-2
SEGAL, WILLIAM	AI-07936-6
SEGALOFF, ALBERT	AM-00381-12
SEGALOFF, ALBERT	CA-03364-9
SEGALOFF, ALBERT	CA-03603-8
SEGAR, WILLIAM E.	AM-07662-2
SEGARRA, JOSEPH M.	NB-03105-5
SEGEL, IRWIN H	GM-12292-1
SEGUNDO, JOSE P.	NB-05264-1
SEHON, ALEC	AI-07085-7
SEIDEL, ROBERT J.	HD-00932-3
SEIDENBERG, BERNARD	MH-08035-2
SEIDMAN, IRVING	CA-08134-1
SEIFE, BURTON	AM-09714-1
SEIFTER, JOSEPH	AM-06648-3
SEIFTER, SAM	AM-03172-7
SEIFTER, SAM	AI-05564-2
SEIJI, MAKOTO	AM-07323-2
SEIPP, CONRAD	CH-00120-1
SEITCHIK, JOSEPH N.	HD-00401-4
SELF, J. TEAGUE	AI-05232-2
SELF, J. TEAGUE	GM-12644-5
SELF, J. TEAGUE	NB-04961-2
SELIGER, WILLIAM G.	DE-02308-1
SELIGMAN, ARNOLD M.	CA-02478-11
SELIGSON, DAVID	AM-04480-5
SELIGSON, DAVID	HM-00394-1
SELIKOFF, IRVING J.	OH-00192-1
SELKURT, EWALD E.	HE-04056-7

SELL, SARAH H. AI-06110-2
SELL, SARAH H. CC-00106-1
SELLECK, ROBERT E. WP-00649-1
SELLER, ROBERT H. HE-08052-3
SELLERS, ALVIN F. AM-04679-5
SELLERS, ALVIN L. AM-07633-2
SELLIN, THORSTEN OM-01252-2
SELLINGER, OTTO Z. NB-04549-2
SELLS, BRUCE H. AM-07375-3
SELMANOFF, EUGENE D. NU-00126-2
SELSKY, MELVYN I. CA-07062-2
SELTSER, RAYMOND RH-00075-5
SELTZER, CARL C. CD-00082-1
SELTZER, HOLBROOKE S. AM-04708-5
SELTZER, SAMUEL DE-01930-2
SELVERSTONE, BERTRAM CA-07877-2
SELVERSTONE, BERTRAM HD-00839-2
SELVESTER, RONALD HE-07888-2
SELVESTER, RONALD HE-09123-1
SELYE, HANS HE-06182-4
SELZER, ARTHUR HF-07107-4
SEMANCIK, JOSEPH S. AI-06626-1
SENAY, LEO C., Jr. HE-07075-3
SENGSTAKE, CORD B. MH-11695-1
SENIOR, BORIS AM-09244-1
SENIOR, JOHN R AM-06377-4
SENSENIG, E. CARL NB-00951-8
SENTER, RODERICK J. MH-11063-1
SENTURIA, BEN H. AI-02277-6
SENTURIA, BEN H. NB-00949-9
SERBER, WILLIAM RH-00045-2
SERIF, GEORGE S. AM-06904-3
Service Bureau Corp. Contr. NB-64-871
SERY, THEODORE W. FR-05510-3
SERY, THEODORE W. NB-01516-8
SERY, THEODORE W. NB-02546-6
SESSIONS, JOHN T., Jr. AM-02040-7
SETO, JOSEPH T. AI-05929-2
Seton Hall College Contr. CA-59-3016
SEVOIAN, MARTIN CA-06384-3
SEVY, ROGER W. HF-02846-6
SEWELL, WILLIAM H. MH-06275-3
SEXTON, PATRICIA CAYO OM-01222-1
SEXTON, ROBERT R. NB-04536-3
SEYFERTH, DIETMAR CA-08278-1
SGOURIS, JAMES T. HE-04978-6
SGOURIS, JAMES T. HF-07585-3
SHACK, WILLIAM A. MH-07141-2
SHACKLEFORD, JOHN M. AM-06178-4
SHADDY, RAYMOND W. FR-05326-4
SHADER, RICHARD I. MH-10660-1
SHAFER, A. WILLIAM AM-05011-3
SHAFER, A. WILLIAM AM-09490-1
SHAFER, JULES A. AM-09276-1
SHAFER, PAUL R. GM-12870-1
SHAFER, WILLIAM G. DE-00647-8
SHAFER, WILLIAM G. DE-01333-4
SHAFFER, JAMES G. AI-03655-5
SHAFFER, JAMES G. AI-04528-4
SHAFFER, JAMES G. CC-00019-6
SHAFFER, ROBERT N. CD-00014-7
SHAFFER, ROBERT N. NB-03583-4
SHAFFNER, C.S. AM-08176-1
SHAFTAN, GERALD W. HE-08831-2
SHAGASS, CHARLES MH-02635-7
SHAHANI, KHEM M. HD-00858-3
SHAHID, MUNIB GM-08607-4
SHAKA, JAMES A. AM-05336-4
SHALEK, ROBERT J. CA-03283-8
SHAMBAUGH, GEORGE E., Jr. NB-02674-6
SHAMMA, MAURICE GM-10608-3
SHAMOS, MORRIS H. DE-02189-1
SHANAS, ETHEL CH-00054-4
SHANBERGE, JACOB N. HE-09122-2
SHANK, ROBERT E. AM-06309-4
SHANKEL, DELBERT M. AI-05340-2
SHANKLIN, WILLIAM M. NB-03901-3
SHANNON, JOHN E. CA-03975-6
SHANNON, LYLE W. CH-00042-2
SHANNON, LYLE W. MH-11367-1
SHAPIRA, DANIEL AM-03497-6
SHAPIRA, RAYMOND AM-05851-4
SHAPIRO, ALVIN P. HE-05711-5
SHAPIRO, BENYAMIN AM-03038-6
SHAPIRO, BERNARD HE-08221-3
SHAPIRO, BERNARD L. GM-09143-4
SHAPIRO, BERNARD L. GM-12415-1
SHAPIRO, DAVID MH-08853-2
SHAPIRO, DAVID S. OM-00264-3
SHAPIRO, HERBERT NB-03925-3
SHAPIRO, JACOB RH-00276-2
SHAPIRO, JOSEPH WP-00771-1
SHAPIRO, MARTIN M. HD-01333-1
SHAPIRO, MAURICE A. RH-00322-2
SHAPIRO, MAURICE A. WP-00473-3
SHAPIRO, ROBERT GM-11437-2
SHAPIRO, ROBERT GM-11923-2
SHAPIRO, SAM HE-05794-5
SHAPIRO, SANDOR S. HE-09163-1
SHAPIRO, SYDELLE S. HD-01014-1
SHAPPIRIO, DAVID G. GM-06101-7
SHARE, LEONARD HE-04035-3
SHARON, NATHAN AI-03528-4
SHARP, D. GORDON GM-05177-9
SHARP, JOHN T. AM-06450-3
SHARP, JOHN T. HF-08789-1
Sharpe Research Fdn. Contr. DBS-65-1053
SHARPLESS, SETH K. NB-04341-3
SHAW, CHARLES R. MH-07574-3
SHAW, DON H. RH-00403-1
SHAW, DOUGLAS R.D. AI-03548-5
SHAW, ELLIOTT N. CA-05794-5
SHAW, ELLIOTT N. HE-07769-3
SHAW, JAMES H. DE-00204-11
SHAW, JAMES H. DE-00322-9
SHAW, JAMES H. DE-00373-12
SHAW, KENNETH N.F. HD-01594-1
SHAW, PAUL D. AI-04258-4
SHAW, RICHARD F. NB-04425-2
SHAW, ROBERT F. HE-05032-5
SHAY, DONALD E. DE-00765-8
SHEA, STEPHEN M. AM-06557-3
SHEARN, DONALD W. HE-07084-4
SHEATSLEY, PAUL B. HM-00349-1
SHECHMEISTER, ISAAC L. AI-05120-3
SHEEHAN, JANE P. OM-01458-2
SHEEHAN, JOHN C. CA-02239-11
SHEEHAN, JOHN F. FR-05368-4
SHEEK, MARTHA R. CA-07948-1
SHEER, CHARLES NB-04478-2
SHEFFY, BEN E. HD-00304-6
SHELDON, HUNTINGTON AM-07159-3
SHELDON, JOHN M. AP-00001-11
SHELDON, WALTER H. AM-04593-5
SHELL, EDDIE W. GM-11004-3
SHELLABARGER, CLAIRE J. CA-05496-5
SHELLENBERGER, THOMAS E. AM-08411-2
SHELLENBERGER, THOMAS E. ES-00103-1
SHELLEY, HARRY P. MH-07031-2
SHELLEY, WALTER B. HE-07428-3
SHELLY, JOSEPH A. OM-01292-3
SHELTON, DAMON C. AM-05349-4
SHELTON, RALPH L., Jr. DE-02004-2
SHEMIN, DAVID AM-01101-17
SHEN, SHU C. AM-07925-3
SHENKIN, HENRY A. HE-06753-4
SHENKIN, HENRY A. NB-04996-2
SHENKIN, HENRY A. NB-05079-2
SHEPARD, RICHARD H. FR-00004-4
SHEPARD, ROBERT S. HE-07678-3
SHEPARD, ROBERT S. NB-03022-5
SHEPARD, THOMAS H. HD-00449-4
SHEPARD, THOMAS H. HD-00836-2
SHEPHERD, JOHN T. HE-04744-6
SHEPHERD, JOHN T. HF-05883-5
SHEPP, BRYAN E. HD-01349-1
SHEPPARD, CHARLES W. HE-03665-8
SHEPPARD, CHARLES W. HE-09495-4
SHEPPARD, DAVID E. AI-06133-1
SHEPPARD, IRVING M. DE-00782-5
SHEPRO, DAVID AI-03767-5
SHEPS, MINDELL C. GM-13436-1
SHERBER, DANIEL A. AM-09040-1
SHERIDAN, THOMAS B. AC-00206-2
SHERLOCK, SHEILA AM-04267-4
SHERMAN, ALBERT I. CA-09745-5
SHERMAN, BURTON S. AM-06512-3
SHERMAN, FRANK E. NB-01230-8
SHERMAN, FRED GM-12702-1
SHERMAN, GWENDOLYN M. GM-11529-2
SHERMAN, IRWIN W. AI-05226-3
SHERMAN, J.K. GM-06418-7
SHERMAN, JOSEPH D. AM-08014-2
SHERMAN, MARTIN FF-00197-5
SHERMAN, WILLIAM B. AI-01578-9
SHERMAN, WILLIAM B. AI-02093-7
SHERMAN, WILLIAM B. AI-02682-6
SHERMAN, WILLIAM B. AI-05861-2
SHERMAN, WILLIAM R. NB-05159-2
SHERRY, SOL HE-03745-8
SHERRY, SOL HF-09766-1
SHERRY, SOL HE-10020-1
SHERWIN, RUSSELL P. CA-06946-3
SHETLAR, M.R. AM-00818-8
SHEVRIN, HOWARD MH-02257-8
SHIDEMAN, FREDERICK E. HE-07914-3
SHIDEMAN, FREDERICK E. HF-07939-4
SHIELDS, GEORGE S. AM-05767-4
SHIELDS, JAMES E. GM-11182-3
SHIELDS, LORA M. HE-06942-3
SHIERE, FREDERIC R. DH-00004-5
SHILLING, CHARLES W. HF-09425-1
SHILLITO, JOHN, Jr. HE-04766-6
SHILS, MAURICE E. AM-06588-3
SHILS, MAURICE E. AM-08297-1
SHIMAMOTO, TAKIO HE-05196-5
SHIMAMOTO, TAKIO HE-06708-4
SHIMIZU, C. SUSAN NAGERADA CA-04569-7
SHIMKIN, MICHAEL B. CA-07771-2
SHIMKIN, MICHAEL B. CA-07961-1
SHINEFIELD, HENRY R. DE-01527-5
SHINER, V.J., Jr. GM-08502-5
SHINGLETON, WILLIAM W. AM-07562-3
SHINGLETON, WILLIAM W. CA-04860-6
SHINOWARA, GEORGE Y. HF-04843-7
SHIP, IRWIN I DF-02116-2
SHIPP, FREDERIC T., Jr. NB-05477-1
SHIPP, JOSEPH C. AM-04829-6
SHIRAISHI, TOYOHIKO J. OM-01572-2
SHIREMAN, CHARLES H. OM-00881-3
SHIRES, GEORGE T. GM-05428-7
SHIRK, FRIEDA I. NU-00043-3
SHIRLEY, DAVID A. CA-04068-7
SHIZUME, KAZUO AM-07208-3
SHKLAR, GERALD DE-01861-3
SHMAVONIAN, B.M. MH-06022-4
SHNEIDMAN, EDWIN S. OM-00128-7
SHNIDER, BRUCE I. CA-02824-10
SHOCKLEY, DOLORES C. AM-08650-1
SHOCKLEY, THOMAS E. AI-05568-3
SHOCKMAN, GERALD D. AI-05044-3
SHODEN, ARNE N. HE-08786-1
SHOEMAKER, WILLIAM C. HF-08512-2
SHOPE, RICHARD E., Jr. AI-05975-2
SHORR, MARY S. AM-07531-2
SHORR, MARY S. HD-00646-2
SHORE, PARKHURST A. MH-05831-4
SHOREY, HARRY H. GM-11524-2
SHOREY, WINSTON K. FR-00208-1
SHOREY, WINSTON K. FR-05350-4
SHORT, JAMES F., Jr. MH-07158-2
SHORT, ROBERT B. AI-04749-3
SHORTER, ROY G. AI-06703-1
SHORTER, ROY G. CA-06872-3
SHOWERS, MARY J.C. NB-05436-1
SHREFFLER, DONALD C. AI-04342-1
SHRIFT, ALEX GM-07661-5
SHRIFT, ALEX GM-09086-4
SHUBIK, PHILIPPE CA-02893-9
SHUBIK, PHILIPPE CA-06162-4
SHUBIK, PHILIPPE CA-07278-2
SHUBIK, PHILIPPE CA-09212-13
SHUBIK, PHILIPPE CA-09559-8
SHUFORD, WADE H. AM-09319-1
SHULL, KENNETH H AM-06541-3
SHULMAN, HERMAN L. AP-00246-3
SHULMAN, LAWRENCE E. AM-06726-3
SHULMAN, LEONARD B. DE-02221-1
SHULMAN, SIDNEY AM-04195-8
SHUMACKER, H.B. Jr. HE-08826-2
SHUMACKER, HARRIS B., Jr. HF-02035-10
SHUMATE, ROBERT P. AC-00080-3
SHUMWAY, NORMAN E. HE-04658-5
SHUMWAY, NORMAN E. HF-08696-2
SHUSTER, CHARLES W. AM-06802-3
SHWACHMAN, HARRY AM-04923-1
SHWACHMAN, HARRY AM-06339-4
SHY, GEORGE M. NB-04613-2
SIAS, FRED R., Jr. NB-05090-2
SIBATANI, ATUHIRO GM-10588-2
SIBLEY, CHARLES G. GM-06889-5
SIBLEY, WILLIAM A. NB-05840-1
SICE, JEAN CA-04114-7
SICE, JEAN MH-08027-2
SICHEL, FERDINAND J. HF-00336-11
SIDBURY, JAMES B., Jr. AM-06815-3
SIDBURY, JAMES B., Jr. FR-00030-4
SIDMAN, MURRAY MH-05408-4
SIDMAN, MURRAY NB-03535-4
SIDMAN, RICHARD L. NB-03262-5
SIDMAN, RICHARD L. NB-04792-2
SIDRANSKY, HERSCHEL AI-05519-2
SIDRANSKY, HERSCHEL AM-05908-4

SIDRANSKY, HERSCHEL CA-07465-2
SIE, HSIEN-GIEH AM-06073-3
SIEBENS, ARTHUR A HE-04036-7
SIEBURTH, JOHN M WP-00100-4
SIEGEL, ALAN C HE-04164-7
SIEGEL, BENJAMIN M. GM-10422-3
SIEGEL, BENJAMIN M. GM-12873-1
SIEGEL, BENJAMIN V. CA-05884-4
SIEGEL, BERNARD J. MH-08602-1
SIEGEL, EDWARD T. AM-07722-2
SIEGEL, GERALD M. MH-08743-2
SIEGEL, IVENS A. AM-07679-2
SIEGEL, JOHN H HE-06790-4
SIEGEL, MORRIS CD-00001-7
SIEGEL, MORRIS HD-00296-9
SIEGEL, PAUL S. MH-10320-1
SIEGLER, RICHARD CA-06947-2
SIEHR, DONALD J. MH-06309-4
SIFKEVITZ, PHILIP AM-01635-8
SIELKE, EUGENE L. OM-01953-1
SIFFERT, ROBERT S. AM-01978-7
SIGEL, BERNARD AM-04255-5
SIGEL, BERNARD HE-07440-3
SIGEL, M. MICHAEL AI-05758-2
SIGEL, M. MICHAEL CA-04908-6
SIGEL, M. MICHAEL FR-05516-3
SIGEL, ROBERTA S. MH-11428-1
SIGLER, WILLIAM F. FF-00044-4
SIGLER, WILLIAM F. RH-00077-6
SIGURDSON, HERBERT R. OM-01570-2
SIH, CHARLES J. AM-04874-5
SIH, CHARLES J. AM-09688-1
SIIM, J.C. AI-01741-5
SIITERI, PENTTI K. HD-00107-2
SIKES, DENNIS AM-01120-9
SIKES, WALTER A OM-01964-1
SIKOV, MELVIN R. CA-07314-2
SILBER, ROBERT CA-06657-3
SILBERBERG, MARTIN AM-00022-14
SILBERBERG, MARTIN AM-04213-4
SILBERKWEIT, MARIA DE-01114-6
SILBERSTEIN, RICHARD M. HD-01418-1
SILBERSTEIN, RICHARD M. OM-01201-2
SILBERT, JEREMIAH E AM-08816-1
SILEN, WILLIAM AM-05616-4
SILK, EMANUEL I. OM-01838-2
SILL, WEBSTER H., Jr. GM-09604-3
SILLIKER, JOHN H. AI-06149-2
SILLMAN, JOHN H. DE-01751-3
SILTZBACH, LOUIS E. AI-02272-7
SILVA, FRANCISCO OM-01779-1
SILVA, MARGARITA AI-00299-13
SILVA, RICARDO A. MH-08290-9
SILVER, CARL A. AC-00223-1
SILVER, HENRY K. GM-08255-3
SILVER, MARC S AM-08005-2
SILVER, WARREN S. GM-08577-4
SILVERBERG, STANLEY M. HF-06542-4
SILVERMAN, ALBERT J. MH-08804-2
SILVERMAN, LESLIE FF-00579-1
SILVERMAN, LESLIE FF-00735-1
SILVERMAN, PAUL H. AI-05910-2
SILVERMAN, SIDNEY DE-01244-5
SILVERMAN, WILLIAM A HD-00540-5
SILVERMAN, WILLIAM J. FR-05476-3
SILVERSTEIN, ALBERT MH-08974-2
SILVERSTEIN, ARTHUR M AI-06713-1
SILVERSTEIN, ARTHUR M. NB-05366-2
SILVERSTEIN, EMANUEL AM-09271-1
SILVERSTEIN, ROBERT M. GM-11945-2
SILVERSTONE, FELIX A. AM-06536-2
SILVEY, JOSEPH K. WP-00785-1
SILVEY, JOSEPH K.G. WP-00805-11
SIMBONIS, STANLEY GM-11847-2
SIMEONE, F A HE-05687-5
SIMINOVITCH, LOUIS AI-04229-4
SIMKIN, JULIUS L AM-04346-5
SIMKINS, LAWRENCE MH-10653-1
SIMMEL, ARNOLD MH-11014-1
SIMMER, HANS H HD-00722-1
SIMMONDS, SOFIA AI-04257-4
SIMMONS, DANIEL H AM-07727-2
SIMMONS, DANIEL H. HE-08075-2
SIMMONS, F BLAIR NR-02167-6
SIMMONS, JOHN E., Jr. AI-05748-2
SIMMONS, JOHN R GM-10694-3
SIMMONS, OZZIE G MH-09208-1
SIMMONS, RICHARD L CA-07466-2
SIMMS, HENRY S HE-00945-15
SIMON, ALEXANDER FR-05550-3
SIMON, ALEXANDER MH-09145-8
SIMON, EDWARD H. AI-06759-1

SIMON, ERIC J. MH-10227-1
SIMON, ERNST AM-05701-3
SIMON, ERNEST R. AM-08131-2
SIMON, HAROLD J. CC-00074-6
SIMON, HELEN M. NU-00142-1
SIMON, HERBERT A. MH-07722-2
SIMON, JOSEPH CA-06679-3
SIMON, SEYMORE MH-08917-1
SIMON, WILLIAM FR-00246-1
SIMONDS, PAUL E. MH-11099-1
SIMONS, JOHN N. AI-05329-2
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Simonsen Labs Contr. CA-65-55
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SIMONSON, ERNST HE-02071-10
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SIMPSON, CHARLES F. HE-03776-7
SIMPSON, CHARLES F. HE-06580-4
SIMPSON, DALE R. DE-01959-2
SIMPSON, GEORGE M. MH-08240-2
SIMPSON, MELVIN V. AM-07174-3
SIMPSON, SIDNEY B., Jr. GM-12653-1
SIMPSON, WILLIAM E. MH-11242-1
SIMPSON, WILLIAM L. CA-02903-9
SIMPSON, WILLIAM L. CA-07177-2
SIMPSON, WILLIAM L. FR-05529-3
SIMS, ASA C., Jr. AI-05067-3
SIMSARIAN, FRANCES P. OM-02090-1
SINCLAIR, JOHN D. HE-07568-3
SINCLAIR, JOHN G. HD-00647-2
SINDBERG, RONALD M. NB-05413-1
SINDBERG, RONALD M. NB-05547-1
SINEX, F. MAROTT GM-08062-5
SINEX, F. MAROTT HD-01623-1
SINGAL, SAM A. AM-05811-4
SINGER, JACQUES M. AI-05404-2
SINGER, JACQUES M. AM-04052-5
SINGER, JEROME E. MH-07515-3
SINGER, JEROME L. MH-08364-2
SINGER, JEROME L. MH-10956-1
SINGER, MARCUS GM-08580-5
SINGER, MARCUS NB-03384-5
SINGER, MARCUS NB-03647-3
SINGER, RONALD GM-10113-3
SINGER, S.J. AI-04255-4
SINGER, S.J. GM-12027-2
SINGER, S. JONATHAN AI-06659-1
SINGER, THOMAS P HF-01995-10
SINGLETON, A.O., Jr. AM-04952-4
SINGLETON, GEORGE T. NB-03451-4
SINGLETON, JOHN W. AM-06537-3
SINGLEY, JOHN F WP-00717-1
SINKOVICS, JOSEPH G. CA-07923-1
SINNHUBER, RUSSELL O. CA-06285-3
SINNHUBER, RUSSELL O. GM-07006-6
SINSHEIMER, JOSEPH E. AM-06224-4
SIPERSTEIN, MARVIN D CA-08501-1
SIPPEL, THEODORE O. NB-03711-3
SIRAK, HOWARD D. HE-05273-5
SISE, HERBERT S. HE-01058-14
SISKEN, JESSE E. CA-04526-7
SISKIND, GREGORY W. AM-08805-1
SISLER, HUGH D. AI-00226-13
SISSON, JAMES C. AM-08495-2
SISSON, JOSEPH HD-01462-1
SISTROM, WILLIAM R. AI-05773-2
SIX, ERICH W. AI-04043-4
SIZER, IRWIN W AM-01680-8
SJODIN, RAYMOND A GM-08426-5
SJOGREN, TORSTEN NB-04108-3
SJOSTRAND, FRITIOF S. AM-04466-5
SJOSTRAND, FRITIOF S. AM-07731-2
SJOSTRAND, FRITIOF S. GM-11742-2
SJOSTRAND, FRITIOF S. NB-02889-5
SJOSTRAND, FRITIOF S. NB-04194-3
SKAAR, PALMER D. CA-03902-8
SKAGGS, LESTER S. CA-06475-4
SKARNES, ROBERT C. AI-06357-1
SKELTON, FLOYD R. HF-06975-4
SKINNER, CHARLES G. CA-08102-1
SKINNER, DOROTHY M. AM-06268-3
SKINNER, EUGENE W. DE-01498-4
SKINNER, EUGENE W. DE-01736-3

SKINNER, EUGENE W. DE-01737-3
SKINNER, WILFRED A. AM-05552-4
SKINNER, WILFRED A. GM-11491-2
SKINSNES, OLAF K. AI-03627-5
SKINSNES, OLAF K. AI-04353-4
SKOLD, OLA E. TW-00112-2
SKOLER, DANIEL L. OM-00998-3
SKRINDE, ROLF T. WP-00346-3
SKRINDE, ROLF T. WP-00433-3
SKULTETY, F MILES NB-04068-3
SLACK, JOHN M. AI-01801-8
SLACK, JOHN M. CC-00002-8
SLADE, HUTTON D. HE-03709-8
SLAGEL, DONALD E. NB-05771-1
SLANETZ, LAWRENCE W. AI-03547-5
SLANETZ, LAWRENCE W. WP-00009-9
SLATER, BASIL C.S. HD-00773-2
SLATER, EDWARD C. AM-08690-1
SLATER, PHILIP E. MH-10748-1
SLATER, ROBERT J. FR-00109-2
SLATER, ROBERT J. FR-05429-4
SLAUNWHITE, W. ROY, Jr. CA-03559-8
SLAUTTERBACK, DAVID B. GM-06934-6
SLAWSON, ROBERT M. OM-00918-4
SLAYMAN, CLIFFORD L., Jr. GM-12790-1
SLEATOR, WILLIAM, Jr. NB-00937-10
SLEEPER, BAYARD P. AI-00737-11
SLEETH, CLARK K. FR-05433-4
Sloan--Kettering Inst. Contr. CA-65-99
Sloan--Kettering Inst. Contr. CA-65-619
Sloan--Kettering Inst. Contr. CA-65-1005
SLOAN, LOUISE L. NB-00810-10
SLOAN, WILLIAM C. AM-06247-4
SLOANE, HOWARD N., Jr. MH-11086-1
SLOANE, NATHAN H. AM-09083-1
SLOBODIAN, EVELYN RH-00095-6
SLOBODY, LAWRENCE B. NB-02360-8
SLOSBERG, PAUL S. NB-02399-7
SLOTNICK, IRVING J. AI-05170-3
SLOTNICK, IRVING J. CA-07295-2
SLOTTA, KARL H. HF-04889-6
SLOVITER, HENRY A. HF-06108-5
SLOVITER, HENRY A. NB-02032-7
SLUTSKY, LEON J. GM-11712-2
SLY, WILLIAM S. GM-11905-2
SMALL, LAWRENCE F. FS-00026-2
SMALL, MELVIN D. AM-07125-2
SMALLEY, EUGENE B. FF-00140-4
SMALLEY, KATHERINE N. NB-05931-1
SMELSER, GEORGE K. NB-00492-12
SMELSER, GEORGE K. NB-01202-9
SMELSER, GEORGE K. NB-06117-1
SMERDON, ERNEST T WP-00757-1
SMILEY, JAMES D. AM-08418-1
SMISSMAN, EDWARD E. FF-00209-5
SMISSMAN, EDWARD E. GM-07444-5
SMISSMAN, EDWARD E. GM-09254-4
SMISSMAN, EDWARD E. HE-08555-1
SMISSMAN, EDWARD E. NB-02733-5
SMITH, ALFRED A. MH-01434-9
SMITH, ALICE NU-00081-2
SMITH, ARTHUR H. HE-01920-11
SMITH, BLANCA AM-06277-3
SMITH, CARL C. AI-02350-6
SMITH, CARL H AM-00227-16
SMITH, CATHERINE A. NB-00966-9
SMITH, CEDRIC M. NB-00973-10
SMITH, CHARLES E. FR-05441-4
SMITH, CHARLES J. MH-06235-3
SMITH, CHARLES P. MH-08065-1
SMITH, CHARLES R. HE-05627-5
SMITH, CHARLES T. FR-05302-4
SMITH, CHRISTIANNA CA-01558-14
SMITH, COLIN M. OM-00920-4
SMITH, DAVID J. DE-01954-2
SMITH, DAVID T. AI-01991-7
SMITH, DEWITT H. HE-04425-5
SMITH, DONALD OM-01681-1
SMITH, DONALD W. AI-00646-11
SMITH, DONN L. FR-05375-4
SMITH, DORIS OM-00963-3
SMITH, DOROTHY M. NU-00112-2
SMITH, EDGAR D. GM-09776-4
SMITH, EDWARD E. NR-05956-1
SMITH, EDWIN E. WP-00340-4
SMITH, ELIZABETH K. AM-05903-3
SMITH, ELVIN F HF-09160-1
SMITH, EMIL L. GM-11061-3
SMITH, EUGENE J. AM-06587-3

SMITH, FRANK H. AM-07039-3
SMITH, FRED GM-09293-4
SMITH, FRED GM-11737-1
SMITH, FRED HD-00402-3
SMITH, FRED G., Jr. AI-04677-4
SMITH, FRED G., Jr. HD-00452-4
SMITH, FREDERICK G. GM-07354-6
SMITH, GARDNER W. HE-04644-6
SMITH, GENE NU-00104-2
SMITH, GEORGE E. EF-00467-3
SMITH, GEORGE E. WP-00533-2
SMITH, GERARD V. GM-10664-3
SMITH, GILBERT P. FR-05331-4
SMITH, H. SIDWELL WP-00695-1
SMITH, HARRY M. HE-09313-1
SMITH, HARVEY B. FR-05471-3
SMITH, HUGH H. AI-03537-5
SMITH, IAN M. AI-04046-5
SMITH, J. CRISPIN NB-04276-4
SMITH, J. CRISPIN NB-05541-1
SMITH, J. DARREL AM-09707-1
SMITH, J. DOYLE CA-06575-3
SMITH, J. GRAHAM, Jr. AM-05812-4
SMITH, J. GRAHAM, Jr. AM-07583-2
SMITH, JAMES F. DE-01780-4
SMITH, JAMES J. HE-06588-4
SMITH, JIMMIE B. HD-01133-1
SMITH, JOHN G. OM-01702-2
SMITH, JOHN R. HE-00519-16
SMITH, JOHN R. HE-06292-5
SMITH, JOHN T. AM-07800-2
SMITH, JOSEPH F. HE-10051-1
SMITH, KARL U. MH-04469-5
SMITH, KATHLEEN MH-05415-4
SMITH, KATHLEEN MH-10295-1
SMITH, LAWRENCE W. CA-04592-6
SMITH, LESTER E. HM-00208-1
SMITH, LLOYD H., Jr. AM-09406-1
SMITH, LLOYD L., Jr. WP-00223-5
SMITH, LOUIS L. HE-04639-6
SMITH, LUCILLE GM-06270-7
SMITH, M. BREWSTER MH-10610-1
SMITH, MANNING A. GM-11830-2
SMITH, MARGARET G. AI-00158-15
SMITH, MARION E. NB-02785-5
SMITH, MICHAEL GM-09241-3
SMITH, MONCRIEFF H., Jr. MH-11148-1
SMITH, NATHAN J. CA-05436-5
SMITH, OLIVE W. HD-00709-9
SMITH, OLIVER H. GM-11145-3
SMITH, ORVILLE A. HE-04741-6
SMITH, PAUL F. AI-04410-4
SMITH, PAUL H. WP-00198-5
SMITH, PETER GM-07653-5
SMITH, PHILIP N. AI-03563-5
SMITH, R. DALE DE-02259-1
SMITH, R. JAY AI-06406-1
SMITH, RAY F. AI-03653-5
SMITH, RICHARD T. HD-00384-7
SMITH, RICHARD T. HD-01224-1
SMITH, ROBERT E. GM-09261-4
SMITH, ROBERT F. HD-01826-1
SMITH, ROBERT J. MH-10152-1
SMITH, ROBERT J. MH-10579-1
SMITH, ROBERTS A. GM-07919-5
SMITH, ROBERTS A. GM-10627-3
SMITH, ROGER P. AP-00260-3
SMITH, RONALD W. HF-09547-1
SMITH, ROSS W. WP-00611-2
SMITH, RUSSELL E. CC-00049-2
SMITH, SISTER MARIAN J. CA-08321-1
SMITH, STANLEY W. NB-05460-1
SMITH, STUART W. NB-00862-13
SMITH, THOMAS L. GM-07349-5
SMITH, WALTER T., Jr. CA-06586-3
SMITH, WALTER T., Jr. RH-00193-2
SMITH, WILBUR K. NB-03237-4
SMITH, WILLIAM E. CA-07681-2
SMITH, WILLIAM M. HF-08217-3
SMITH, WILLIAM M. HF-09750-1
SMITH, WILLIAM O. HE-03521-7
SMITH, WILLIAM W. GM-12322-1
SMITHBERG, MORRIS GM-08131-6
Smithsonian Inst. Contr. CA-65-1072
SMUCKLER, EDWARD A. AM-08686-1
SMYTH, NICHOLAS P.D. HE-08768-1
SMYTHE, CHEVES M. FR-05420-4
SMYTHE, CHEVES M. HE-05889-5
SNEDECOR, JAMES G. AM-01266-9
SNELL, ESMOND E. AI-01575-9
SNELL, ESMOND E. AM-01448-9
SNELL, FRED M. GM-06730-6
SNELL, GEORGE D. CA-01329-15
SNELL, JUNIUS F. AI-04960-3
SNIDER, RAY S. NB-04592-3
SNIDER, RAY S. NB-04596-3
SNIVELY, GEORGE G. AC-00051-6
SNODGRASS, PHILIP J. AM-07848-2
SNOEYENBOS, GLENN H. EF-00696-1
SNOKE, JOHN E. AI-05924-2
SNOW, JAMES B., Jr. NB-05180-2
SNYDER, CHARLES R. MH-09187-2
SNYDER, EUGENE I. GM-12113-2
SNYDER, HARRY E. EF-00292-4
SNYDER, JOHN C. AI-06251-1
SNYDER, JOHN C. FR-05446-4
SNYDER, MARSHALL L. DE-01267-4
SNYDER, MARSHALL L. DE-02234-1
SNYDER, RALPH E. FR-05398-4
SNYDER, ROBERT AM-08450-2
SNYDER, ROBERT OH-00210-1
SNYDER, ROBERT L. HD-00543-4
SNYDER, WILLIAM C. EF-00576-2
SNYDER, WILLIAM H., Jr. HD-00388-6
So. Animal Farms Contr. CA-65-80
SOAR, ROBERT S. OM-02045-1
SOBEL, ALBERT E. DE-02015-3
SOBEL, EDNA H. HD-01204-5
SOBEL, HAROLD J. AM-05516-4
SOBEL, HAROLD J. AM-07191-3
SOBEL, HAROLD J. HE-05950-5
SOBEL, HARRY AM-05955-3
SOBEL, RAYMOND AC-00240-1
SOBERON, GUILLERMO AM-05766-3
SOBEY, WILLIAM R. CA-06851-2
SOBIN, SIDNEY S. HF-07325-3
SOBOLIK, CLINTON F. OH-00020-3
SOBOTKA, HARRY AM-04971-4
SOBOTKA, HARRY GM-04736-9
SOBOTKA, HARRY NB-02322-6
SOBOTKA, HARRY H. NB-01935-7
SOCOLOFSKY, MARION D. AI-05551-2
SOCRANSKY, SIGMUND S. DE-01305-5
SODEMAN, WILLIAM A. FR-00072-3
SODEMAN, WILLIAM A. FR-05414-4
SOEDER, ROBERT W. HE-09034-1
SOERGEL, KONRAD H. AM-08251-2
SOFFER, LOUIS J. AM-05301-4
SOGANDARES-BERNAL, FRANKLIN AI-03386-6
SOGNNAES, REIDAR F. FR-05304-4
SOHLER, ARTHUR MH-07514-2
SOIKE, KENNETH F., Jr. HD-01193-2
SOINE, TAITO O. HE-07101-4
SOKABE, HIROFUMI HE-08779-2
SOKABE, HIROFUMI HF-09508-1
SOKAL, JOSEPH E. AM-01646-8
SOKAL, ROBERT R. GM-11935-1
SOKATCH, JOHN R. GM-06070-6
SOKOLLU, ADNAN NB-03413-4
SOKOLOFF, BORIS CA-05367-4
SOKOLOFF, BORIS HE-08505-2
SOKOLOW, MAURICE HF-05146-5
SOLISH, GEORGE I. HD-00617-2
SOLLENBERGER, RICHARD T. MH-11437-1
SOLO, ALAN J. AM-06900-3
SOLOFF, LOUIS A. HE-06587-4
SOLOMON, DAVID AM-08384-1
SOLOMON, DAVID H. AM-04179-6
SOLOMON, DAVID H. AM-09185-1
SOLOMON, JOEL CA-07585-2
SOLOMON, LEONARD F. MH-05353-3
SOLOMON, PHILIP MH-07155-2
SOLOMON, RICHARD L. MH-04202-5
SOLOMON, ROBERT D. HE-06484-3
SOLOMON, SAMUEL AM-04329-5
SOLOMON, SIDNEY HF-08477-2
SOLOMONOFF, RAY J. GM-11021-3
SOLOMONS, CLIVE C. AM-08757-1
SOLON, JERRY A. OH-00028-5
SOLON, JERRY A. NU-00066-2
SOLOTOROVSKY, MORRIS AI-05448-3
SOLS, ALBERTO GM-08041-4
SOMERS, JOHN F. NB-05530-1
SOMERVILLE, RONALD I. AM-08986-1
SOMJEN, GEORGE G. NB-05330-1
SOMLYO, ANDREW P. HF-08226-2
SOMMER, JOACHIM R. GM-09730-3
SOMMERMEYER, LUCILLE NU-00030-5
SOMMERNESS, M. DUANE OM-01786-2
SOMOZA, CESAR HE-06015-6
SONENBERG, MARTIN AM-06328-4
SONENSHINE, DANIEL E. AI-04402-5
SONI, NARENDAR N. DE-00829-6
SONI, NARENDAR N. DE-01904-3
SONNENSCHEIN, RALPH R. HE-05157-5
SONTAG, L.W. FR-05537-3
SONTAG, LESTER W. FR-00222-3
SONTAG, LESTER W. HD-00868-9
SOODAK, MORRIS AM-03274-7
SOOY, FRANCIS A. NB-06065-1
SOOY, FRANCIS A. NB-06244-1
SOPHIANOPOULOS, ALKIS J. GM-10167-3
SORBY, DONALD L. AM-07718-2
SOREMARK, RUNE AM-08157-2
SORENSEN, SOREN E. DE-02114-2
SORENSON, GEORGE D. AI-04889-6
SORENSON, GEORGE D. CA-08178-1
SOROF, SAM CA-05945-4
SOROFF, HARRY S. AM-07544-2
SOROFF, HARRY S. HF-08164-2
SOROKIN, SERGEI P. GM-10949-3
SOSNOVSKY, GEORGE GM-12839-1
SOTOS, JUAN F. NB-05114-2
SOULIER, JEAN P. HE-05411-4
SOUTHERN, ERNEST J.I. AI-06262-1
SOUTH, FRANK E. GM-09584-4
South Carolina Alcoholic Program Contr. MH-65-63
South Jersey Med. Res. Fdn. Contr. CA-65-65
South Shore Analytical Contr. CA-64-932
SOUTHARD, CURTIS OM-01134-3
Southern Blood Bank Contr. DBS-63-548
Southern Research Contr. CA-60-2433
Southern Research Contr. CA-61-4358
Southern Research Contr. CA-63-68
Southern Research Contr. CA-64-51
Southern Research Contr. CA-64-66
Southern Research Contr. CA-65-594
Southern Research Contr. CA-65-654
Southern Research Contr. CA-65-1000
SOUTHREN, A. LOUIS AM-04431-3
SOUTHREN, A. LOUIS AM-06937-3
SOUTHWICK, CHARLES H. HD-00345-3
SOUTHWICK, PHILIP L. GM-04371-10
SPACH, MADISON S. HE-03549-8
SPACH, MADISON S. HE-08667-2
SPACKMAN, DARREL H. HD-01435-1
SPAET, THEODORE H. HF-05415-5
SPAIN, DAVID M. HF-02692-9
SPALTER, HAROLD F. NB-04140-3
SPANGENBERG, HARRY D., Jr. DE-01778-3
SPARAGANA, MARIO AM-08756-1
SPARGO, BENJAMIN H. HF-02986-9
SPARGO, BENJAMIN H. HF-03690-8
SPARKS, ALBERT K. FF-00199-5
SPARKS, ALBERT K. FF-00346-3
SPARKS, ROBERT E. HE-09250-1
SPARKS, ROBERT E. WP-00854-1
SPAULDING, EARLE H. AI-02722-6
SPAULDING, ROBERT W. OM-02205-1
SPAZIANI, EUGENE HD-00446-6
SPEAKS, CHARLES E. NB-05799-1
SPEAR, NORMAN E. MH-08888-2
SPECK, JOHN C., Jr. GM-05594-7
SPECK, MARVIN L. FF-00378-3
SPECK, MARVIN L. FF-00668-1
SPECTOR, ABRAHAM NB-01900-7
SPECTOR, ELLIOT MH-10634-1
SPEECE, A.J., Jr. AM-08867-1
SPEECE, RICHARD E. WP-00394-3
SPEERS, REX W. OM-01206-3
SPEIDEL, CARL C. RH-00325-2
SPELLACY, WILLIAM N. HD-01463-1
SPENCE, DONALD P. MH-06025-3
SPENCE, JACK T. GM-08347-5
SPENCER, BRIAN AM-08787-1
SPENCER, ESTHER C. CH-00022-5
SPENCER, FRANK C. HE-06850-4
SPENCER, FRANK C. HE-09237-1
SPENCER, HERTA AM-05572-4
SPENCER, HERTA CA-04114-4
SPENCER, HERTA RH-00222-3
SPENCER, MERRILL P. HE-08524-2

ALPHABETICAL LISTING OF INVESTIGATORS

SPENCER, MERRILL P. HE-08525-3
SPENCER, MERRILL P. HE-09131-1
SPENCER, RICHARD P AM-07958-3
SPENCER, RICHARD P. GM-11690-3
SPENCER, RICHARD P. HD-00411-2
SPENCER, ROBERT S. OM-02076-1
SPENCER, THOMAS A. AM-05014-5
SPENCER, WILLIAM A. HM-00365-2
SPENCER, WILLIAM A. NB-05648-1
SPENCER-SILVER, PETER H. TW-00129-1
SPENDLOVE, GEORGE HE-08274-2
SPENSER, IAN D. GM-10043-3
SPERELAKIS, NICK HE-05087-6
SPERLING, FREDERICK OH-00182-2
SPERRY, C.J., Jr. NB-02704-6
SPERRY, ROGER W. MH-03372-6
SPERRY, WARREN M NB-03191-5
SPERTI, GEORGE S RH-00204-3
SPESSARD, DWIGHT R. CA-06893-3
SPEYER, JOSEPH F. GM-12371-1
SPICER, WILLIAM S., Jr. AP-00045-5
SPIEGEL, ERNEST A. NR-00470-11
SPIEGEL, ERNEST A. NB-04418-3
SPIEGEL, JOHN T. MH-03326-6
SPIEGELBERG, HERBERT MH-07788-1
SPIEGELMAN, MORTIMER CH-00075-5
SPIEGELMAN, SOL CA-01094-16
SPIELBERGER, CHARLES D. HD-00947-3
SPIELER, RICHARD A. GM-11475-2
SPIERA, HARRY AM-07726-2
SPIES, HAROLD G. GM-08755-4
SPIES, HAROLD G. HD-00392-5
SPIGEL, IRWIN M. MH-08679-2
SPINDLER, GEORGE D. MH-10150-1
SPINK, WESLEY W. AI-04415-4
SPIRA, MELVIN GM-11856-2
SPIRO, DAVID HF-05906-5
SPIRO, HOWARD M. AM-04759-5
SPIRO, HOWARD M AM-05100-5
SPIRO, HOWARD M. AM-08870-1
SPIRO, MARY J. AM-09198-1
SPIRO, MELFORD E. MH-11867-1
SPIRO, ROBERT G. AM-05363-4
SPIRTES, MORRIS A MH-11679-1
SPIRTES, MORRIS A MH-11758-1
SPITTEL, JOHN A., Jr. HF-05008-5
SPITZER, JOHN J. HE-03130-9
SPITZNAGEL, JOHN K. AI-02430-7
SPIVACK, GEORGE MH-08709-2
SPIZIZEN, JOHN AI-06571-1
SPIZIZEN, JOHN AI-07002-1
SPIZIZEN, JOHN AI-07003-1
SPLITT, HARLAN J. CA-06828-4
SPLITTSTOESSER, DON F. FF-00255-4
SPOOR, RYK P. GM-12897-1
SPRAGUE, CHARLES C. FR-05377-4
SPRAGUE, JAMES M. NB-05506-1
SPRARAGEN, SANFORD C. HF-08758-2
SPRATT, JAMES L. GM-09784-3
SPRATT, JAMES L. NB-04925-2
SPRATT, JOHN S., Jr. CA-08023-1
SPRATT, JOHN S., Jr. CA-09741-6
SPRATT, ROBERT J. OM-01965-1
SPRINGER, DONALD OM-01368-1
SPRINGER, GEORG F. AI-05681-3
SPRINGER, GEORG F. AI-05682-3
SPRINSON, DAVID B AM-00546-14
SPROUL, EDITH E. CA-06855-3
SPROUL, OTIS J. WP-00387-2
SPRUNT, DOUGLAS H. AM-03748-5
SPRUNT, DOUGLAS H. CA-05053-6
SPRUNT, DOUGLAS H. CA-09053-15
SPURR, CHARLES L. CA-03927-8
SPURR, CHARLES L. CA-05468-5
SPURR, GERALD B. MH-04440-5
SPURRELL, FRANCIS A. HD-00414-5
SQUIBB, ROBERT L. AI-03645-4
SRB, ADRIAN M. GM-12953-16
SREEBNY, LEO M DE-02120-1
SRIBNEY, MICHAEL NB-02794-4
SRINIVASAN, P.R. GM-10384-3
SRINIVASAN, P.R. GM-12836-1
STABA, E. JOHN HE-05380-5
STACY, RALPH W. GM-10494-3
STADELMAN, WILLIAM J. EF-00416-3
STAGG, RONALD M. AM-06879-3
STAHL, JOHN B. WP-00668-1
STAHL, S. SIGMUND DE-00537-9
STAHL, WALTER R. GM-13605-1
STAHL, WILLIAM M. HE-07785-3
STAHLGREN, LEROY AM-08179-1
STAHMANN, MARK A. AI-00101-16

STAHNKE, HERBERT L. NB-02330-5
STAINSBY, WENDELL N. GM-06264-7
STALING, LEAH M. DF-01989-2
STALLCUP, ODIE T GM-10654-3
STAMEY, THOMAS A. HF-06631-4
STAMEY, THOMAS A. HF-06649-4
STAMLER, JEREMIAH HE-07329-3
STAMLER, JEREMIAH HE-08889-1
STAMLER, JEREMIAH HE-08983-1
STAMLER, JEREMIAH HE-09426-1
STAMM, JOHN S MH-06971-4
STAMM, JOHN S. MH-08064-2
STAMMER, CHARLES H. AI-05539-3
STAMP, WARREN G. AM-08401-2
STANBURY, JOHN B. AM-01880-8
STANDAERT, FRANK G. NB-05706-1
STANDISH, S. MILES DE-01518-3
STANFORD, JOHN W. DF-00902-6
Stanford Res. Inst. Contr. CA-60-3072
Stanford Res. Inst. Contr. CA-62-832
Stanford Res. Inst. Contr. CA-64-500
Stanford Res. Inst. Contr. CA-65-43
Stanford Res. Inst. Contr. CA-65-575
Stanford Res. Inst. Contr. DE-65-82
Stanford Res. Inst. Contr. GM-65-1061
Stanford Res. Inst. Contr. HE-65-1058
Stanford Res. Inst. Contr. MH-61-4394
STANIER, ROGER Y. AI-01808-8
STANIFORD, PHILIP S. MH-07895-2
STANLEY, ALLAN J HD-01075-1
STANLEY, MALCOLM AM-08602-2
STANLEY, WENDELL M. AI-01267-9
STANSLY, PHILIP G. CA-06725-3
STANTON, HOWARD R. AI-05203-2
STANTON, HOWARD R. MH-05870-3
STAPLE, EZRA AM-07202-2
STAPLE, PETER H DF-02091-1
STARE, FREDRICK J. HF-06892-4
STARE, FREDRICK J HF-07291-3
STARE, FREDRICK J. HE-10098-1
STARK, GEORGE R. GM-11788-2
STARK, LAWRENCE MH-11907-1
STARK, LAWRENCE NB-03090-4
STARK, RICHARD B. DF-02009-2
Stark Associates Contr. CA-62-484
STARR, ARNOLD NB-05700-1
STARR, ISAAC HF-00625-16
STARR, JASON L. AI-05988-1
STARR, MORTIMER P. GM-12643-10
STARR, RICHARD C. FR-00141-2
STARY, ZDENKO NB-04825-2
STARZL, THOMAS E. AM-06283-3
STARZL, THOMAS E. AM-06344-4
STARZL, THOMAS E. AM-07772-2
STATE, DAVID AM-08883-1
State of California Contr. MH-65-602
State of Delaware Contr. MH-65-615
State of New Hampshire Contr. NB-65-651
State Univ. North Carolina Contr. MH-65-1067
STAUB, ANNE M. AI-03320-5
STAUBER, LESLIE A. AI-00092-15
STAUBER, LESLIE A. AI-00781-11
STAUBITZ, WILLIAM J. NB-04796-2
STAVE, UWE HD-00431-4
STAVITSKY, ABRAM B. AI-01865-8
STAY, BARBARA AI-05075-3
STEAD, EUGENE A., Jr. HF-04807-5
STEAD, WILLIAM W. HE-06004-6
STEBBINS, ERNEST L. FR-05445-4
STEBBINS, WILLIAM C. NB-05077-2
STEBLAY, RAYMOND W. HE-04785-5
STECHLER, GERALD MH-08367-2
STECK, ROBERT C. OM-01777-2
STECKERL, FRITZ GM-08162-4
STEED, GITEL MH-10815-1
STEELE, J. MURRAY AM-00311-12
STEELE, J. MURRAY HD-00672-9
STEELE, RICHARD H. GM-10171-3

STEELINK, CORNELIUS GM-12288-1
STEENBURG, RICHARD W. AM-03714-6
STEFANI, STEFANO S. AM-08793-1
STEFANIS, COSTAS N. MH-11201-1
STEHMAN, V.A. OM-01052-2
STEIGER, WILLIAM A. HM-00303-1
STEIN, ABRAHAM M. CA-05117-6
STEIN, ARTHUR H., Jr. HE-03792-7
STEIN, JEAN F. MH-08827-2
STEIN, KATHRYN F. NB-00684-11
STEIN, MARVIN MH-10665-1
STEIN, MARVIN MH-11349-1
STEIN, MARVIN NB-04857-3
STEIN, MORRIS I. MH-10898-1
STEIN, MORRIS I MH-10899-1
STEIN, MYRON HF-05317-6
STEIN, MYRON OH-00190-1
STEIN, RICHARD M. HE-08535-2
STEIN, WILLIAM H GM-07256-6
STEIN, YECHEZKIEL HE-05705-5
STEINBACH, H. BURR GM-10542-3
STEINBACH, HOWARD L. AM-02589-7
STEINBERG, ARTHUR G. AM-07980-1
STEINBERG, ARTHUR G. GM-07214-5
STEINBERG, ARTHUR G GM-08219-5
STEINBERG, ARTHUR G. HE-03708-8
STEINBERG, MARTIN R. FR-00071-2
STEINBERG, MARTIN R. FR-05500-3
STEINBERG, MARVIN P. EF-00275-3
STEINBERGER, EMIL AM-05449-4
STEINBERGER, EMIL HD-00399-4
STEINBERGER, WILLIAM W. NB-04189-3
STEINER, DONALD F. AM-04931-5
STEINER, IVAN D. MH-04460-4
STEINER, SHELDON H. HE-07398-3
STEINFELD, JESSE L. CA-05186-5
STEINHARDT, JACINTO GM-10607-3
STEINHARDT, JACINTO GM-12085-2
STEINHAUS, EDWARD A. AI-05358-2
STEINITZ-SEARS, L M GM-12400-1
STEKOL, JAKOB A. CA-01251-16
STELLAR, ELIOT MH-03571-6
STEMBRIDGE, VERNIE A. CA-06368-4
STEMMER, EDWARD A. AM-09028-1
STEMMER, KLAUS L. OH-00165-2
STEMPEN, HENRY AI-05994-2
STEMPFEL, ROBERT S., Jr. HD-01200-6
STEPHENS, CHARLES A.L., Jr. AM-02520-5
STENESH, JOCHANAN AI-06310-1
STENGER, RICHARD J AM-08416-2
STENT, GUNTHER S. CA-02129-12
STENT, GUNTHER S. GM-11957-2
STEPHENS, B.G. ES-00112-1
STEPHENS, GROVER C. GM-12889-1
STEPHENSON, E.L. AM-07690-2
STERLING, KENNETH AM-02770-6
STERLING, THEODOR D. CA-07163-3
STERLING, THEODOR D. FR-00010-3
STERMITZ, FRANK R. EF-00508-2
STERMITZ, FRANK R. GM-09300-4
STERMITZ, FRANK R GM-12407-1
STERN, BABETTE K. AM-08408-2
STERN, IRVING B. DF-01995-2
STERN, JACK NR-04300-3
STERN, JOHN A MH-02755-7
STERN, JOHN A MH-07140-3
STERN, JOHN A MH-08677-2
STERN, JOSEPH R. AM-00739-11
STERN, KURT HD-00533-6
STERN, MALVIN D. AM-08062-2
STERNBERG, THOMAS H AI-06048-1
STERNBERG, WILLIAM H HD-00062-2
STERNBURG, JAMES G. CC-00039-6
STERNE, RICHARD S. MH-11277-1
STERRITT, GRAHAM M. HD-00334-5
STETSON, CHANDLER A. HF-07289-3
STETSON, CHANDLER A., Jr. AI-01481-11
STETTEN, DeWITT, Jr. FR-05576-1
STETTEN, MARJORIE R. AM-07279-3
STEUART, GUY W. CD-00127-1
STEVENS, BENJAMIN H. EF-00700-1
STEVENS, CALVIN I CA-03772-8
STEVENS, CALVIN L. GM-11520-2
STEVENS, CARL M. AI-01111-9
STEVENS, CHARLES E. AM-09280-1
STEVENS, CHARLES F NB-05934-1
STEVENS, DAVID A. MH-10530-1
STEVENS, DEAN F. CA-07290-2
STEVENS, JACK G. AI-04246-2
STEVENS, JANICE R. NB-01140-8
STEVENS, KENNETH N. NB-04332-3
STEVENS, LEROY C. CA-02662-10

STEVENS, RUSSELL B. AI-04322-4
STEVENS, S.S. NB-02974-4
STEVENS, VERNON C. HD-00629-2
STEVENSON, HAROLD W. MH-03519-7
STEVENSON, HENRY M. CC-00079-3
STEVENSON, IAN MH-07601-3
STEVENSON, J. ROSS GM-08363-4
STEVENSON, ROBERT AM-03439-6
STEWARD, F.C. GM-09609-3
STEWARD, JOHN P. AI-02755-6
STEWART, ALICE M. CA-05392-5
STEWART, CHARLES J. GM-07977-5
STEWART, CHARLES N MH-10747-1
STEWART, GEORGE F. ES-00054-1
STEWART, GEORGE H. GM-11456-2
STEWART, GEORGE H. OM-01621-2
STEWART, GEORGE H. GM-09038-3
STEWART, JAMES A. DE-00928-6
STEWART, JAMES M. OH-00056-6
STEWART, KENNETH C. MH-08675-2
STEWART, MARK A. NB-05463-1
STEWART, MARK A. AM-06117-4
STEWART, WELLINGTON B. AM-08180-2
STEWART, WELLINGTON B. AP-00132-7
STEWART, WILLIAM S. GM-12535-1
STICKEL, DELFORD L. CA-08252-1
STIDWORTHY, GEORGE H. GM-09132-2
STIEB, ERNST W. MH-06873-3
STIEFEL, JOHN HF-09622-1
STILL, WILLIAM J. AI-06302-1
STILLE, JOHN K. GM-08037-3
STILLER, MARY L. OM-01775-1
STILLINGER, CECIL G. AM-09468-1
STILLWELL, RICHARD N. MH-11005-1
STILSON, DONALD W. HD-01205-5
STIMMEL, BENJAMIN F. AI-06525-1
STIMPFLING, JACK H. AI-03561-5
STINEBRING, WARREN R. GM-07604-5
STINSON, BENJAMIN D. TW-00100-2
STITNIMANKARN, TINRAT HE-05943-5
STIVALA, SALVATORE S. AM-06366-4
STJERNHOLM, RUNE L. EF-00381-3
STOB, MARTIN HF-03205-8
STOCK, AARON H. CA-03192-9
STOCK, CHESTER C. OM-02084-1
STOCKBURGER, JOHN C. GM-10612-3
STOCKER, FRED B. FR-05593-1
STOCKS, CHESTER L. GM-11825-2
STOECKENIUS, WALTHER AM-07795-2
STOERK, HERBERT C. HE-07542-3
STOHLMAN, FREDERICK Jr. HE-08549-1
STOHLMAN, FREDERICK, Jr. GM-11185-2
STOKES, ALLEN W. WP-00239-5
STOKES, J.L. CA-02851-9
STOKES, WILLIAM M. AM-08171-2
STOKSTAD, E.L. ROBERT AM-08632-2
STOKSTAD, E. L. ROBERT HE-09561-1
STOLLERMAN, GENE H. AM-08818-1
STOLOV, WALTER C. GM-08813-4
STOLOW, ROBERT D. AM-06090-4
STONE, DANIEL B. AM-07216-2
STONE, DANIEL B. GM-06035-7
STONE, DAVID GM-11102-3
STONE, DAVID MH-04139-5
STONE, GEORGE C. NU-00077-2
STONE, JOSEPH CA-04084-7
STONE, JOSEPH F. HM-00259-2
STONE, KATHRYN H. NB-03444-3
STONE, LEON S. CA-07413-2
STONE, MARTIN L. OM-01185-2
STONE, NELLIE D. NB-00818-11
STONE, WILLIAM E. NR-06077-1
STONE, WILLIAM, Jr. NB-06281-1
STONE, WILLIAM, Jr. FR-05379-4
STONE, WILLIAM S. GM-11609-2
STONE, WILSON S. CA-06957-2
STONIER, TOM T. AI-04431-4
STORCK, ROGER L. AM-07789-2
STOREY, ARTHUR T. NB-05855-1
STORY, JIM L. GM-05147-8
STORK, GILBERT MH-10260-1
STORM, THOMAS MH-10298-1
STORM, THOMAS F. AM-03619-6
STORVICK, CLARA A. AI-05801-2
STORZ, JOHANNES NB-01631-8
STOTLER, WILLIAM A. OM-01624-1
STOTSKY, BERNARD A. AI-05810-2
STOTZKY, GUENTHER AM-03705-6
STOTT, GERALD H. HE-01322-13
STOTZ, ELMER H. AP-00440-1
STOTZKY, GUENTHER AM-08210-2
STOUT, FLOYD M. GM-12095-7
STOUT, GEORGE H. MH-10521-1
STOUT, JOHN F. NB-05972-1
STOUT, JOHN F. GM-06921-6
STOWE, BRUCE B. NB-02709-5
STRAATSMA, BRADLEY R. NB-03785-4
STRAATSMA, BRADLEY R. NR-04855-2
STRAATSMA, BRADLEY R. NB-05214-1
STRAATSMA, BRADLEY R. DE-01923-2
STRACHAN, DONALD S. GM-07076-6
STRACHER, ALFRED AM-07863-2
STRAILE, WILLIAM E. NB-00692-11
STRAIN, WILLIAM H. RH-00042-4
STRAIN, WILLIAM H AM-09145-4
STRANDH, JOHN AI-00616-12
STRANDTMANN, RUSSELL W. AM-06954-3
STRASSMAN, MURRAY GM-07291-6
STRAUS, JACOB HE-06858-3
STRAUS, REUBEN GM-12123-1
STRAUS, WERNER NU-00047-4
STRAUSS, ANSELM NU-00002-2
STRAUSS, ANSELM W. AI-06128-2
STRAUSS, BERNARD S. GM-07816-6
STRAUSS, BERNARD S. GM-09790-4
STRAUSS, ELLIOTT W. AM-07388-3
STRAUSS, JOHN S. HE-09351-1
STRAUSS, JOSE HD-00498-6
STRAUSS, LOTTE AM-09408-1
STRAUSS, NORMAN GM-12307-1
STRAUSS, III RICH P AM-08166-2
STREBEL, RALPH F. GM-08821-4
STRECKER, HAROLD J. FF-00543-2
STREET, JOSEPH C. AM-04488-6
STREETEN, DAVID H.P. AM-07793-2
STREETEN, DAVID H.P. HF-07443-3
STREETER, VICTOR L. MH-11746-1
STREIB, GORDON F GM-12855-1
STREITWIESER, ANDREW, Jr. AM-06217-3
STRENGTH, D. RALPH GM-11956-2
STRICKBERGER, MONROE W. MH-11116-1
STRICKER, LAWRENCE J. GM-10092-3
STRICKHOLM, ALFRED ES-00035-1
STRICKLAND, JOHN D.H. AM-06412-2
STRICKLER, HERBERT S. HD-01350-1
STRICKLER, HERBERT S. OM-00188-5
STRINGER, LORENE A. GM-09304-5
STRITTMATTER, CORNELIUS F HE-05514-5
STRITTMATTER, PHILIPP MH-08552-2
STROEBEL, CHARLES F AI-06247-2
STROMINGER, JACK L. AM-08672-2
STROMINGER, JACK L. NB-03541-3
STROMSTA, COURTNEY EF-00674-1
STRONG, ANN I EF-00131-5
STRONG, DOROTHY H. AI-04419-4
STRONG, FRANK M. HE-06674-1
STRONG, JACK P. HF-04838-5
STRONG, LEON H HF-08073-2
STRONG, PASCHAL N., Jr. WP-00101-3
STROSS, RAYMOND G. HD-00367-2
STROTHER, CHARLES R. AI-05745-2
STROUT, R.G. MH-10278-1
STROUTHES, ANDREW AM-09194-1
STRUMEYER, DAVID H. HE-07377-2
STRUMIA, PAUL V. GM-11783-2
STRYER, LUBERT NB-05199-2
STUART, DOUGLAS G. AM-06767-3
STUART, KENNETH I FR-00135-2
STUBBE, JOHN S. OM-01781-1
STUCKEY, COATES HF-04801-6
STUCKEY, JACKSON H. CA-03389-8
STUCKEY, WALTER J., Jr. MH-10996-1
STUDT, ELLIOT CA-02947-9
STULBERG, CYRIL S. EF-00100-4
STUMBO, CHARLES R. WP-00621-2
STUMM, ELISABETH A.M. WP-00013-6
STUMM, WERNER WP-00043-4
STUMM, WERNER WP-00098-4
STUMM, WERNER WP-00621-2
STUMM, WERNER WP-00899-1
STUMM, WERNER GM-10132-3
STUMPF, PAUL K. MH-03684-5
STUNKARD, ALBERT J. HE-04279-7
STURKIE, PAUL D. GM-04725-9
STURTEVANT, JULIAN M. GM-10677-3
SU, JONG-CHING WP-00468-2
SUBLETTE, JAMES E. DE-01837-2
SUBTELNY, J. DANIEL CA-05743-5
SUBTELNY, STEPHEN MH-11234-1
SUCHMAN, ROSSI VN G. GM-04964-6
SUCKLING, EUSTACE E. MH-08525-2
SUDAK, FREDERICK N. AI-05726-1
SUDDS, RICHARD H. GM-09827-4
SUELTER, CLARENCE H. GM-10923-3
SUEOKA, NOBORU MH-05101-4
SUGERMAN, A. ARTHUR AI-00097-16
SUGG, JOHN Y. OH-00144-2
SUGGS, CHARLES W. CA-01228-15
SUGGS, JOSEPH E. OM-01268-2
SUGI, TETSU GM-09900-2
SUGIND, YUKIO NB-02798-5
SUGIOKA, KENNETH EF-00077-4
SUGIYAMA, HIROSHI GM-08685-5
SUHADOLNIK, ROBERT J. AM-05180-5
SUHRLAND, I FIF G CA-05047-6
SUIT, HERMAN D GM-12433-1
SUIT, JOAN L AM-07629-2
SULITZFANIL, BERNARD NB-00342-12
SULKIN, NORMAN M NB-02748-5
SULKIN, NORMAN M. AI-03316-7
SULKIN, S. EDWARD AM-06000-3
SULLIVAN, JAMES F. MH-11781-1
SULLIVAN, RICHARD T. CA-08077-1
SULLIVAN, ROBERT D. AM-07780-2
SULLIVAN, W. JAMES HF-08371-2
SULYA, LOUIS L. CA-05217-4
SUMIKI, YUSUKE MH-03313-6
SUMMERFIELD, ARTHUR HE-09731-1
SUMMERS, ROY E., Jr. AI-04205-3
SUMMERS, WILLIAM A AM-06908-3
SUMMERSKILL, WILLIAM H.J. HD-01020-1
SUMMITT, ROBERT L. AM-09790-1
SUN, DAVID C.H. NR-05447-1
SUN, HUN HE-07457-3
SUNDBERG, R. DOROTHY EF-00102-2
SUNDERLAND, J. EDWARD NB-05432-1
SUNDSTEN, JOHN W. NB-05058-2
SUNG, JOO HO GM-11496-2
SUNSHINE, ABRAHAM GM-09863-3
SUNSHINE IRVING HD-01169-5
SUNTZEFF, VALENTINA MH-06154-4
SUPPES, PATRICK DE-02164-1
SUPRINICK, HARRY HE-07359-4
SURAWICZ, BORYS FR-05400-4
SURGENOR, DOUGLAS M. HE-05828-3
SURGENOR, DOUGLAS M. OH-00137-2
SUSKIND, RAYMOND R. CA-03080-9
SUSKIND, SIGMUND R. AI-05855-2
SUSMAN, MILLARD AI-06004-2
SUSSDORF, DIETER H. GM-09887-3
SUSSMAN, ALFRED S. AM-08925-1
SUSSMAN, KARL F AP-00222-3
SUSSMAN, VICTOR H. AM-08253-2
SUTER, ELSI AI-01302-9
SUTER, EMANUEL AI-03798-5
SUTER, EMANUEL FR-05362-4
SUTER, EMANUEL CA-07299-2
SUTHERLAND, DONALD J. HE-08332-3
SUTHERLAND, EARL W., Jr. HD-00578-3
SUTHERLAND, JAMES M. GM-09941-4
SUTHERLAND, THOMAS M. NB-03196-4
SUTHERLAND, VIOLETTE C. NB-04597-3
SUTIN, JEROME HF-08595-2
SUTNICK, ALTON I. AM-09305-1
SUTTIE, JOHN W. WP-00082-5
SUTTKUS, ROYAL D. CA-08008-1
SUTTON, CARL H. NB-05271-2
SUTTON, DWIGHT HE-09666-1
SUTTON, GEORGE C. GM-09326-4
SUTTON, H. ELDON MH-07776-3
SUTTON, SAMUEL AM-02745-7
SUZUKI, HOWARD K. AM-07588-2
SUZUKI, SAKARU TW-00078-2
SUZUKI, YASUNOSUKE NB-05770-1
SVAETICHIN, GUNNAR CA-05680-4
SVOBODA, DONALD J. CA-06792-3
SVOBODA, DONALD J. NB-05015-2
SWAIMAN, KENNETH F. GM-03711-12
SWAIN, C. GARDNER HF-02466-9
SWAIN, HENRY H HE-05291-6
SWAINE, CHARLES R CA-06873-3
SWAN, GEORGE A. HE-09374-1
SWAN, HAROLD J. HF-08773-2
SWAN, HAROLD J.C. HE-09667-1
SWAN, HENRY AM-06290-3
SWAN, ROY C. OM-01950-1
SWANDER, CONSTANCE N. HE-02676-9
SWANK, ROY L. NB-01536-6
SWANK, ROY L. HE-08814-1
SWANN, H.G. HE-06142-5
SWANN, HOWARD G. NB-05894-1
SWANSON, AUGUST G. NB-05424-1
SWANSON, PHILLIP D. HF-06774-4
SWARTWOUT, JOSEPH R. HE-07116-3
SWARTWOUT, JOSEPH R. HD-01245-8
SWARTZ, FRANK J. AI-05082-3
SWARTZ, MORTON N.

ALPHABETICAL LISTING OF INVESTIGATORS

SWARTZWELDER, J. CLYDE	AI-05938-2
SWEAT, MAX L.	AM-01803-8
SWEAT, MAX L.	HD-00472-9
SWEATMAN, GORDON K.	AI-02205-8
SWEELEY, CHARLES S.	AM-04907-5
SWEENEY, JAMES W.	FR-00006-1
SWEENEY, JAMES W.	GM-11619-2
SWEENEY, JAMES W.	NB-04705-2
SWEENEY, RICHARD	AM-02646-7
SWEENEY, RICHARD D.	HE-06107-3
SWEET, HERBERT C.	HF-03737-8
SWEET, WILLIAM H.	CA-07368-2
SWEET, WILLIAM H.	NB-02898-5
SWEET, WILLIAM H.	NB-04348-3
SWEET, WILLIAM H.	NB-04512-1
SWELL, LEON	HF-09039-2
SWELL, LEON	HF-09040-2
SWENDSEID, MARIAN E.	AM-01347-8
SWENSON, EDWARD W.	HE-09333-1
SWENSON, MELVIN J.	HE-05228-5
SWENSON, ORVAR	HD-00293-4
SWENSON, ORVAR	HD-00432-3
SWERN, DANIEL	CA-07803-2
SWETT, JOHN E.	NB-05048-2
SWIFT, HEWSON	HD-01242-8
SWIGART, RICHARD H.	HE-04734-6
SWIM, HAROLD E.	HD-00848-9
SWINDLER, DARIS R.	DE-02231-1
SWINDLER, DARIS R.	GM-12635-1
SWINEHART, JAMES H.	GM-11767-2
SWINGLE, H.S.	AI-02477-7
SWINGLE, WILBUR W.	AM-05643-3
SWISHER, SCOTT N.	AM-00537-1(
SWITZER, WILLIAM P.	AI-05689-2
SWORD, CHRISTOPHER P.	AI-04343-4
SYDNOR, KATHERINE L.	CA-07321-2
SYLVESTER, CHARLES J.	DE-01455-3
SYLVESTER, CHARLES J.	DE-01779-3
SYLVESTER, EDWARD S.	AI-03497-5
SYMBAS, PANAGIOTIS N.	HE-09535-1
SYMINGTON, THOMAS	AM-05369-4
SYMMES, DAVID	NB-02681-6
Syntex S.A.	Contr. CA-58-2357
SZABO, GEORGE	CA-05401-5
SZANTO, PAUL B.	HE-07245-3
SZEKELY, EMERY G.	NB-05316-1
SZENT-GYORGYI, ALBERT	GM-10383-3
SZENT-GYORGYI, ANDREW G.	GM-09808-4
SZENTIVANYI, ANDOR	AI-04191-3
SZMANT, H. HARRY	GM-09481-4
SZOLLOSI, DANIEL	HD-01110-1
SZULMAJSTER, JEKISIEL	AI-04207-4
SZULMAN, ARON E.	AI-06443-1
SZWEJDA, LOUIS F.	OH-00018-3
TABACHNICK, JOSEPH	RH-00218-3
TABACHNICK, MILTON	AM-05344-4
TABAKIN, BURTON S.	HE-04010-7
TABAKIN, BURTON S.	HF-06121-5
TABER, ELIZABETH	NB-03756-4
TABER, MERLIN	OM-02085-1
TABER, RICHARD D.	GM-12162-1
TABORSKY, GEORGE	AM-03188-6
Taconic Farms	Contr. CA-65-617
TAFT, CLARENCE E.	WP-00317-4
TAFT, EDGAR B.	AM-02540-7
TAFT, ROBERT W.	GM-12608-1
TAGER, MORRIS	HF-01895-11
TAHORI, ALEXANDER S.	GM-06111-3
TAIT, JAMES F.	AM-03179-7
TAIT, JAMES F.	AM-07282-3
TAIT, JAMES F.	AM-08387-2
TAIT, SYLVIA A.	AM-05300-4
TAKAGI, YASUYUKI	GM-12052-2
TAKAHARA, SHIGEO	AM-06793-3
TAKAHASHI, WILLIAM N.	AI-03394-5
TAKAI, TOSHIO	HD-00649-2
TAKASHIMA, SHIRO	GM-12083-2
TAKEMORI, AKIRA E.	NB-05171-3
TAKETA, FUMITO	GM-11823-2
TAKUMA, SHOSABURO	DE-01791-3
TALALAY, PAUL	AM-07422-2
TALBERT, PRESTON T.	NB-04127-3
TALBOT, SAMUEL A.	GM-10895-3
TALBOT, T.R., Jr.	FR-05539-3
TALBOT, TIMOTHY R., Jr.	CA-06551-2
TALBOT, TIMOTHY R., Jr.	CA-06927-3
TALBOTT, G. DOUGLAS	HE-07604-2
TALBOTT, G. DOUGLAS	HF-08241-2
TALEISNIK, SAMUEL	NB-04732-2
TALKINGTON, PERRY C.	OM-01610-1
TALLAND, GEORGE A.	HD-00340-5
TALLAND, GEORGE A.	NB-04111-3
TALLEDO, EDUARDO	HF-09289-1
TALMADGE, MARVIN B.	AI-06049-1
TALMAGE, DAVID W.	AI-03047-7
TALMAGE, DAVID W.	AI-04152-5
TALMAN, ELLEN L.	NB-03740-4
TALNER, NORMAN S.	HF-06233-5
TALSO, PETER J.	AM-00430-12
TAMAGNA, IRENE G.	HE-05801-5
TAMARIN, ARNOLD	DE-01794-3
TAMAOKI, BUN-ICHI	AM-07715-1
TAMAOKI, BUN-ICHI	CA-07038-2
TAMARIN, ARNOLD	DE-01701-3
TAMIMI, HAMDI A.	AI-05969-1
TAMM, IGOR	AI-03445-6
TANABE, MASATO	AM-05183-5
TANABE, MASATO	AM-06629-3
TANADA, YOSHINORI	AI-03930-5
TANAKA, HENRY T.	OM-00818-4
TANAKA, KOUICHI R.	HE-08757-3
TANENBAUM, HERBERT L.	HE-08563-2
TANENBAUM, STUART W.	AI-03952-4
TANFORD, CHARLES	AM-04576-5
TANG, JORDAN J.N.	AM-01107-9
TANG, JORDAN J.N.	AM-09312-1
TANNENBAUM, ALBERT	CA-03787-8
TANNENBAUM, STEVEN R.	AM-07390-2
TAPLEY, DONALD F.	AM-01506-8
TAPP, JACK T.	MH-07265-3
TAPPEL, ALOYS L.	AM-05609-3
TAPPEL, ALOYS L.	AM-06424-3
TAPPEL, ALOYS L.	GM-05759-8
TAQUINI, ALBERTO C.	HE-06034-4
TARANTA, ANGELO	AM-05055-4
TARASSUK, NIKITA P.	EF-00424-3
TARBELL, D. STANLEY	AI-06328-1
TARJAN, GEORGE	OM-01825-1
TARNAY, THOMAS J.	HF-06157-5
TARTAR, VANCE	CA-03637-9
TARVER, HAROLD	CA-02366-11
TARWATER, J.S.	OM-00934-3
TASHJIAN, ROBERT J.	HE-06936-3
TASWELL, HOWARD F.	AM-07941-3
TATIBANA, MASAMITI	TW-00166-1
TATO, JUAN M.	NB-03006-3
TATUM, EDWARD L.	CA-03610-8
TATUM, EDWARD L.	GM-10717-3
TATUM, HOWARD J.	CA-06089-4
TAUB, STEPHEN R.	GM-11679-3
TAUBE, HENRY	GM-10462-3
TAUROG, ALVIN	AM-03612-6
TAUXE, WELBY N.	HF-08945-2
TAVERAS, JUAN M.	NB-06059-1
TAX, SOL	MH-07877-1
TAYLOR, CALVIN W.	NH-00062-3
TAYLOR, CARL E.	AI-05176-4
TAYLOR, CHARLES	HD-01603-1
TAYLOR, CHARLES E.	OM-01186-3
TAYLOR, DERMOT B.	NB-00738-11
TAYLOR, E. STEWART	HD-00781-2
TAYLOR, E. STEWART	CA-07359-3
TAYLOR, EDWARD C.	CA-02551-11
TAYLOR, EDWIN W.	GM-10992-6
TAYLOR, ELMORE H.	NB-04748-2
TAYLOR, GRANT	CA-03713-8
TAYLOR, GRANT	CA-05791-3
TAYLOR, GRANT	CA-06811-2
TAYLOR, GRANT H.	CA-03754-8
TAYLOR, HENRY I.	CD-00118-1
TAYLOR, HENRY L.	HF-03088-9
TAYLOR, HOWARD C., III	AM-07481-3
TAYLOR, ISAAC M.	FR-05406-4
TAYLOR, JAY E.	GM-08961-4
TAYLOR, JOHN F.	AM-02831-13
TAYLOR, JOHN J.	AI-05948-2
TAYLOR, KEITH B.	AM-06971-3
TAYLOR, KEITH B.	AM-08282-2
TAYLOR, PAUL M.	HD-01395-1
TAYLOR, PAUL M.	HE-06135-4
TAYLOR, SAMUEL G., III	CA-03060-9
TAYLOR, SAMUEL G., III	CA-03742-8
TAYLOR, W. HERMAN	GM-09955-4
TAYLOR, W. JAPE	HF-04326-5
TAYLOR, W. RUSSELL	HF-07647-3
TAYLOR, WILLIAM J.	HF-05004-6
TAYMOR, MELVIN L.	AM-06824-3
TCHEN, T.T.	GM-12648-2
TCHEN, TCHE-TSING	AM-05384-4
TCHEN, TCHE-TSING	HF-04139-7
TEAGUE, ROBERT S.	CA-03101-8
TEAS, DONALD C.	NB-04740-2
TEAS, DONALD C.	NB-04950-2
TEBBENS, BERNARD D.	AP-00275-2
TEDESCHI, C.G.	AM-09121-1
TEDESCHI, CESARE G.	HE-07826-3
TEDESCHI, HENRY	GM-09156-4
TEGHTSOONIAN, MARTHA	MH-11810-1
TEGHTSOONIAN, ROBERT	MH-11809-1
TEICHER, JOSEPH D.	OM-01432-2
TEICHNER, WARREN H.	MH-04201-5
TEICHNER, WARREN H.	OH-00140-3
TEITELBAUM, PHILIP	NB-05394-1
TEITELBAUM, PHILIP	NB-05937-1
TEJADA, CARLOS	HF-02653-9
TEJADA, CARLOS	HE-04152-6
TELFER, NANCY	HE-08904-2
Temple Univ.	Contr. CA-61-4344
Temple Univ.	Contr. CA-65-1029
Temple Univ. Res. Inst.	Contr. MH-60-3758
TENER, GORDON M.	CA-05342-5
TENGERDY, ROBERT P.	AI-05572-2
TENNANT, JUDITH R.	CA-08087-2
TENNEY, STEPHEN M.	HF-02888-9
TEODORU, CONSTANTIN V.	HE-04410-4
TEORELL, TORSTEN	NB-03712-3
TEPLICK, J. GEORGE	GM-11554-2
TEPLITZ, RAYMOND L.	GM-12220-2
TEPPERMAN, JAY	AM-05410-4
TERASAKI, PAUL	AM-07375-7
TERASAKI, PAUL I.	AI-04444-4
TERAYAMA, HIROSHI	CA-05246-5
TEREE, THOMAS M.	FR-00087-2
TEREPKA, A. RAYMOND	AM-08271-2
TERMAN, C. RICHARD	MH-08289-3
TERNBERG, JESSIE L.	CA-04703-3
TERNER, CHARLES	GM-07078-7
TERNER, JACOB Y.	GM-09688-4
TERPLAN, KORNEL L.	NB-04173-3
TER-POGOSSIAN, MICHEL M.	HF-07298-4
TERRACE, HERBERT S.	HD-00930-4
TERRES, GERONIMO, Jr.	AI-03733-5
TERRIERE, LEON C.	AI-02217-7
TERRIS, MILTON	CA-08234-1
TERRIS, MILTON	GM-12872-1
TERRY, ROBERT D.	NB-02255-7
TERZUOLO, CARLO A.	NB-02567-6
TESSLER, ARTHUR N.	CA-07398-1
TESSMAN, ETHEL S.	AI-03903-5
TESTELLI, MARIO R.	HF-06278-4
TESTER, WILLIAM W.	HM-00328-2
TESTERMAN, MAURICE K.	WP-00044-4
TEUBER, HANS-LUKAS	MH-05673-4
TEUSCHER, GEORGE W.	FR-05311-4
Texas Inbred Mice	Contr. CA-62-498
TEXTER, E. CLINTON, Jr.	AM-02651-9
THAEMERT, JONA C.	NB-01599-5
THAL, ALAN P.	AM-06385-3
THALMANN, RUEDIGER	NB-05605-1
THAYER, SIDNEY A.	AM-05084-4
THEILEN, GORDON H.	CA-05562-4
THEIOS, JOHN M.	HD-00950-3
THELEN, HERBERT A.	OM-02010-1
THEM, WALTER J.	GM-12201-2
THEYE, RICHARD A.	HF-04881-6
THIEDE, HENRY A.	HD-00509-5
THIEDE, WALTER H.	OH-00177-2
THIEME, FREDERICK P.	FR-00166-5
THIENES, CLINTON H.	AP-00205-3
THIENES, CLINTON H.	HE-05670-4
THIES, ROGER E.	NB-03736-3
THIESSEN, WILLIAM E.	GM-10543-3
THIGPEN, LORNA	NU-00056-4
THILENIUS, OTTO G.	HF-09072-1
THIMANN, KENNETH V.	GM-01520-14
THOMA, JOHN A.	GM-08500-5
THOMAS, ADEEB E.	DE-01686-3
THOMAS, ALEXANDER	MH-03614-6
THOMAS, ALEXANDER	MH-04907-4
THOMAS, CAROLINE B.	HE-01891-12
THOMAS, CHARLES A. Jr.	AI-03233-6
THOMAS, CHARLES I.	NB-05226-1
THOMAS, COLIN G., Jr.	CA-01915-13
THOMAS, DAVID R.	HD-00903-5
THOMAS, DOROTHY S.	MH-05375-4
THOMAS, DUNCAN P.	HE-09203-1
THOMAS, EDWARD D.	AM-07898-2
THOMAS, EDWARD D.	RH-00311-2
THOMAS, GARTH J.	MH-01370-7
THOMAS, HAROLD A., Jr.	WP-00111-3

THOMAS. HAROLD A ..Jr. WP-00626-1
THOMAS. J. EARL AM-01445-9
THOMAS. J.W. AM-07698-2
THOMAS. JAMES B. HD-00299-3
THOMAS. JAMES B HD-01012-1
THOMAS. JAMES P. NB-05185-2
THOMAS. JEROME F. AP-00301-2
THOMAS. JOHN HE-06349-4
THOMAS. JOHN HF-07798-3
THOMAS. JOHN A. AM-09403-1
THOMAS. LYELL J.. Jr.. HF-02298-9
THOMAS. PATRICIA Z. AM-05451-4
THOMAS. PRICE E. NB-05455-1
THOMAS. ROBERT P. NB-04218-3
THOMAS. WILBUR A. HF-07155-4
THOMAS, WILLIAM C.. Jr. AM-01772-8
THOMAS. WILLIAM C.. .Jr. FR-00082-3
THOMISON. JOHN B. AI-01971-7
THOMMES. ROBERT C. HD-01475-1
THOMPSON. ALAN M. GM-10429-3
THOMPSON. C. RAY AP-00052-3
THOMPSON. C. RAY AP-00270-2
THOMPSON. FRED G. GM-12300-1
THOMPSON. GEORGE G. MH-08382-2
THOMPSON. GUY HM-00336-1
THOMPSON. GUY A..Jr. GM-11083-3
THOMPSON. IAN M. AM-06905-2
THOMPSON. IAN M. CA-05729-4
THOMPSON. IAN M.. CA-07760-2
THOMPSON. JAMES C. AM-07961-3
THOMPSON. JAMES C. AM-07962-3
THOMPSON, JEREMY H. AM-07909-2
THOMPSON. JOHN D. HM-00053-7
THOMPSON. JOHN E. AM-09347-1
THOMPSON. JOHN S. AM-08907-1
THOMPSON. JOHN S. AM-09162-1
THOMPSON. LARRY C. GM-08394-5
THOMPSON. MERRELL E. MH-10692-1
THOMPSON. NICHOLAS J. CA-07688-1
THOMPSON. NOEL P. GM-11250-2
THOMPSON. NOEL P. HF-08414-2
THOMPSON. PETER E. GM-08912-4
THOMPSON. RICHARD F. NB-02161-6
THOMPSON. ROBERT MH-08377-2
THOMPSON. ROBERT B. AM-07943-2
THOMPSON, ROBERT B. HE-10038-1
THOMPSON. ROBERT L. MH-07152-3
THOMPSON. STEPHEN W. NB-03568-5
THOMPSON. THOMAS E. GM-11122-3
THOMPSON. TRAVIS I. MH-11135-1
THOMPSON. WAYNE H AI-06034-2
THOMPSON. WILLIAM D. MH-07223-2
THOMSON. ANDREW AM-07894-3
THOMSON. JOHN D. NB-05476-1
THONARD, JOHN C. DE-01681-3
THONNARD. ERNST HF-07362-4
THORBECKE. G. JEANETTE AI-03076-6
THORBJARNARSON. BJORN AM-04606-5
THORBJARNARSON. BJORN AM-09595-1
THORN. GEORGE W. FR-00031-5
THORNTON. CHARLES S. NB-04128-3
THORNTON. EDWARD R. GM-10693-3
THORNTON. PAUL A. AM-09709-1
THORP. W.T.S. FR-05461-3
THORP. WILLIAM T.S. GM-07009-5
THORPE. JOHN D. CA-06275-3
THORSEN. H. GUNNAR R. HE-04909-4
THORSON. RALPH E. AI-03049-5
THORSON. THOMAS B. HF-09075-1
THORUP, OSCAR A.. Jr. AM-01168-8
THREEFOOT. SAM A HF-01520-12
THRONEBERRY, GLYN O. AM-07598-2
THROWER. WENDELL B. HE-08766-2
THRUPP. LAURI D. AI-06125-1
THULINE. HORACE C. GM-09468-3
THULINE. HORACE C. HD-00350-3
THURBER. GEORGE A. FR-05376-4
THURM. RICHARD H. HE-09757-1
THURMAN. WILLIAM G. CA-08223-1
THURMAN. WILLIAM G. HD-01121-1
THURSTON, JOHN R. NU-00018-7
THURSTON. JOHN R. OM-00672-5
TIBBY. RICHARD B. WP-00762-1
TICK. LEO J. GM-012574-1
TIECKELMANN. HOWARD CA-02857-9
TIECKELMANN. HOWARD CA-05971-3
TIECKELMANN. HOWARD CA-07793-2
TIECKELMANN. HOWARD GM-12112-1
TIEN. CHI WP-00719-1
TIEN. H. TI GM-12063-2
TIERNEY. DONALD F. HE-09650-1
TIFFIN. JOSEPH AC-00087-3

TIKOFSKY. RONALD S. NB-02221-5
TIKOFSKY. RONALD S. NB-05374-1
TIMELL. TORE E. AM-07193-3
TIMIRAS. PAOLA S. GM-09767-4
TINE. SEBASTIAN OM-01122-3
TING. NONG HE-09302-1
TINOCO. IGNACIO. Jr. GM-10840-7
TIPTON. CARL L. GM-10457-3
TIPTON. CHARLES M. AM-08893-1
TIPTON. SAMUEL R. AM-07365-3
TIRK. THEODORE M. DE-02083-2
TISDALE. WILLIAM A AM-08706-1
TISHKOFF. GARSON H. HE-06021-5
TITCHENER. CAMPBELL B. DE-02045-2
TITCHENER. EDWARD B. CA-08295-1
TOBACH. ETHEL MH-08376-1
TOBACH. ETHEL MH-11043-1
TOBIAN. LOUIS HF-02008-11
TOBIAS. JERRY V. NB-05276-2
TOBIN. CHARLES E. HE-08003-2
TOBIN. DANIEL F. FR-05329-4
TOBIS. JEROME S. HD-00599-3
TOBY. JACKSON MH-07620-3
TOCCHINI. JOHN FR-05301-4
TODD. A.C. AI-03611-5
TODD. A.C. AI-06452-1
TODD, CHARLES W. AI-06095-2
TODD. DAVID HE-05928-5
TODD. WILBERT R. AM-04336-5
TODD, WILLIAM M. AI-06062-2
TOENNIES. GERRIT AM-07530-3
TOERIEN. MATTHEUS J. TW-00099-2
Tohoku Univ. Sch. Med. Contr. CA-64-10

TOIVONEN. SULO I. CA-05347-5
TOKUDA. SEIKICHI CA-08074-1
TOKUMARU. TADASU AI-05612-3
TOLL. ARTHUR E. OM-01719-1
TOLMACH. L.J. CA-04483-7
TOMAN. JAMES E.P. MH-05503-4
TOMAN. JAMES E.P. MH-06298-4
TOMAN. JAMES E.P. MH-08788-2
TOMAN. JAMES E.P. NB-04000-3
TOMASI. THOMAS B.. Jr. AM-03986-5
TOMITA. KENKICHI AM-04613-5
TOMITA. TSUNEO NB-03870-3
TOMIZAWA. HENRY H. AM-03854-6
TOMIZAWA. JUN-ICHI GM-08384-4
TOMKINS. SILVAN MH-10087-1
TOMKINS. SILVAN S. MH-04685-4
TOMLINSON. JACK T. GM-09953-3
TOMLINSON. TOMMY M MH-10471-1
TOMPSETT, RALPH AI-02041-8
TOMPSETT. RALPH FR-05577-1
TONDER. OLAV TW-00172-1
TONDO. CASEMIRO V. HE-07430-3
TONG. WINTON AM-06439-3
TONNDORF. JUERGEN NB-03654-4
TONOMURA. YUJI AM-08303-2
TOOKE. W. RAYMOND. Jr. EF-00327-2
TOOLAN. HELENE W. CA-07826-2
TOOLE. JAMES F. HF-07622-4
TOP, FRANKLIN H. AI-03023-6
TOP. FRANKLIN H. CC-00071-4
TOPOREK. MILTON CA-04236-7
TORACK, RICHARD M. NB-04161-3
TORALBALLA. GLORIA C. GM-12419-1
TORCH. REUBEN GM-11252-3
TORESON. WILFRED E. CA-04996-5
TORGESON. DEWAYNE C WP-00750-1
TORO-GOYCO. EFRAIN AM-08346-2
TOROK. NICHOLAS NB-01711-8
TORRANCE. JANE T. HD-00830-1
TORRES-BLASINI. GLADYS AI-05201-3
TORRES. FERNANDO NB-03418-2
TORRES. JOSEPH C. HE-04355-6
TORREY. JANE W. MH-07167-3
TORREY. JOHN G. GM-08145-5
TORREY. JOHN G. GM-10599-3
TORREY. NATALIE E. MH-10187-1
TORRIANI-GORINI. ANNAMARIA GM-09320-4
TORVIK. ANSGAR NB-04421-2
TOSTESON. DANIEL C. HE-06381-4
TOTH. BELA CA-07007-3
TOTO. PATRICK D. CA-06684-3
TOTO. PATRICK D. FR-05310-4
TOTTEN. ROBERT S. HE-06675-4
TOUCHBERRY. ROBERT W. GM-07951-5
TOUCHSTONE. JOSEPH C. HD-01199-8
TOURTELLOTTE, MARK E. AI-05992-2
TOURTELLOTTE, WALLACE W. NB-05388-2
TOURTELLOTTE. WALLACE W. NB-05844-1

TOUSSAINT. DANIEL AM-06490-3
TOUSTER. OSCAR AM-06859-3
TOUSTER. OSCAR CA-07489-2
TOUSTER. OSCAR HD-01465-1
TOVE. SAMUEL B. AM-02483-7
TOWE. ARNOLD L NB-00396-12
TOWE. ARNOLD L. NB-05136-2
TOWNE, JACK C. NB-02453-6
TOWNES. ALEXANDER S AM-08827-1
TOWNES. HENRY AI-04109-5
TOWNES. PHILIP L. AM-08138-2
TOWNES. PHILIP L. AM-09247-1
TOWNSEND, CHARLES T. EF-00130-5
TOWNSEND. J. IVES GM-12682-1
TOWNSEND. PETER B. CH-00129-1
TRABASSO. THOMAS R MH-08741-2
TRACHT. MYRON E. AM-08677-2
TRACHT. MYRON E. HE-09764-1
TRACHTENBERG. EDWARD N. GM-09013-3
TRACY. RICHARD E. HE-08538-2
TRAGER, WILLIAM AI-01407-9
TRAGER. WILLIAM AI-03550-5
TRAININ. NATHAN AM-08460-2
TRAINOR. FRANCIS R. WP-00850-1
TRAMA. FRANCESCO B. WP-00059-4
TRANQUADA. ROBERT E. AM-08246-2
TRAPOLD. MILTON A. MH-08799-2
TRAUB. ABRAHAM CA-04344-6
TRAUB. ROBERT AI-04242-4
TRAUB. WOLFIE GM-08608-5
TRAUM. JACOB AI-05863-1
TRAURIG. HAROLD H HD-01009-1
TRAUTZ, OTTO R. DE-00159-12
TRAVIS. LUTHER B. AM-07736-2
TRAVIS. RANDALL H. HE-08688-2
TRAVIS. ROBERT P.. Jr. MH-08820-1
TREADWELL. CARLETON R. HF-02033-11
TREADWELL. PERRY E. AM-06764-3
TREBLE. DONALD H. AM-08451-2
TREFFERS, HENRY P. AI-05830-2
TREFONAS. LOUIS M. GM-08348-5
TREICHLER. F. ROBERT MH-10335-1
TREJOS. ALFONSO AI-04276-3
TRENDELENBURG. ULLRICH G. NB-01713-8
TRENKLE. ALLEN H. AM-09227-1
TRENTIN. JOHN J. CA-03367-9
TRENTIN. JOHN J. CA-06941-3
TRESHOW. MICHAEL AP-00192-4
TRIANDIS. LEIGH M. MH-06204-3
TRIANTAPHYLLOPOULOS. DEMETRIOS C. HE-07144-3
TRIER. JERRY S. AM-08379-1
TRIPLETT. EDWARD L. AI-04808-3
TRIPP. MARENES R GM-12070-1
TRITSCH. GEORGE L. AM-07787-2
TROBAUGH. FRANK E.. Jr. CA-04144-7
TROBAUGH. FRANK E.. Jr. CA-07341-2
TROEN. PHILIP AM-08375-2
TROKEL. STEPHEN L. NB-05000-2
TROOP. ROBERT C. AM-09151-1
TROTTER. NANCY L AM-06558-3
TROUP. STANLEY B. HE-04167-6
TROUTMAN. EDWIN G. HD-00100-1
TROUTMAN. RICHARD C. NB-02861-5
TROUTMAN. RICHARD C. NB-05186-2
TROYER. JOHN R. AM-05793-4
TRUAX. WAYNE E. CA-05234-4
TRUCE. WILLIAM E. CA-04536-7
TRUCCO. RAUL E AM-07391-3
TRUEX. RAYMOND C. HE-07047-4
TRUITT. B. PRICE CA-03908-8
TRUITT. EDWARD B.. Jr. MH-04012-8
TRUITT. EDWARD B.. Jr. MH-08101-1
TRUJILLO. JOSEFINA C. AM-05563-4
TRUMP. BENJAMIN F. AM-07919-2
TRUSSELL. RAY E. FR-05449-4
TRYON. ROBERT C. MH-08134-2
TSALTAS. THEODORE T. HD-01502-1
TSALTAS. THEODORE T. HE-04175-5
TSALTAS. THEODORE T. HE-04613-5
TSALTAS. THEODORE T. HF-05647-4
TSAO. MAKEPEACE U. AM-09299-1
TSOU. K.C. CA-07339-2
TSUBOI. KENNETH K. AM-03978-6
TSUBOI. KENNETH K. HE-05212-6
TSUBOI. MASAMICHI GM-10024-2
TSUGITA. AKIRA GM-10982-2
TSUJI. SHUSUKE AI-04252-4
TU. WU-HAO HE-07948-4
TUBIS. MANUEL AM-06636-3
TUCHMANN-DUPLESSIS. H DE-02060-2
TUCKER. CECIL B. CC-00078-4
TUCKER. CLYDE E. HE-09500-1

ALPHABETICAL LISTING OF INVESTIGATORS

TUCKER, GABRIEL F., Jr.	CA-06743-4	
TUCKER, H. ALLEN	AM-09200-1	
TUCKER, IRVING F	MH-10700-1	
TUCKER, JOHN S.	ES-00039-2	
TUCKER, VIRGINIA L.	AM-06570-3	
TUFFANELLI, DENNY L.	AI-06609-1	
Tufts College	Contr. AI-65-633	
Tufts College	Contr. FR43-63-1151	
Tulane Univ. of Louisiana	Contr. AI-63-75	
Tulane Univ.	Contr. CA-64-881	
Tulane Univ.	Contr. CA-65-593	
Tulane Univ. of Louisiana	Contr. OD-OIR-65-69	
TULINSKY, ALEXANDER	AM-03698-5	
TUNA, NAIP	HF-06361-4	
TUNA, NAIP	HF-08527-2	
TUNCBAY, TURE O.	NB-03475-3	
TUNKS, OMAR A.	HM-00312-1	
TUNTURI, ARCHIE R.	MH-04234-5	
TUNTURI, ARCHIE R.	NB-00045-15	
TUPPY, HANS	GM-11225-3	
TURCK, MARVIN	AI-06311-1	
TUREEN, LOUIS L.	HD-00217-4	
TURK, AMOS	AP-00315-2	
TURK, DONALD E.	AM-09189-1	
TURNER, C. DONNELL	HD-00597-3	
TURNER, CHARLES W.	AM-00299-11	
TURNER, DANIEL L.	AM-00533-18	
TURNER, DAVID A	HF-05283-6	
TURNER, ERNEST C., Jr.	AI-05947-2	
TURNER, M. DON	AM-04568-5	
TURNER, MALCOLM E., Jr.	FR-00231-1	
TURNER, THOMAS B.	FR-00035-5	
TURNER, THOMAS B.	FR-00052-4	
TURNER, THOMAS B.	FR-00130-2	
TURNER, THOMAS B.	FR-05378-4	
TURNER, THOMAS B.	HF-05306-4	
TURNER, WILLIE	AI-05601-3	
TURPEINEN, OSMO	HF-08176-2	
TURPIN, RAYMOND	NB-04322-3	
TUTTLE, ARLISS H.	HF-01380-12	
TUTTLE, ELBERT P., Jr.	AI-04037-4	
TUTTLE, O.F.	GM-09487-4	
TUTTLE, RICHARD S.	NB-05501-1	
TWARDOCK, A. ROBERT	HD-00727-2	
TWEEDELL, KENYON S.	CA-07849-2	
TWENTE, JOHN W.	AM-05942-4	
TWIEHAUS, MARVIN J.	AI-01074-10	
TWIEHAUS, MARVIN J.	GM-07665-5	
TWOMBLY, GRAY H	CA-02071-12	
TYCE, FRANCIS A	OM-01697-2	
TYE, RUSSELL	CA-07312-2	
TYLER, ALBERT	GM-12777-1	
TYLER, FRANK H	AM-05372-3	
TYLER, FRANK H.	NB-05166-1	
TYLER, JOHN M.	HF-03804-7	
TYLER, JOHN M.	HE-07871-3	
TYLER, MYRA D.	HF-09230-1	
TYLER, WALTER S.	HF-06101-5	
TYOR, MALCOLM P.	AM-07048-3	
TYOR, MALCOLM P.	AM-08500-2	
UCHIDA, IRENE	HD-00527-4	
UECKERT, VERDES H.	CC-00034-4	
UHL, CHARLES N.	MH-08520-2	
UHL, CHARLES N.	MH-10506-1	
UHLE, FREDERICK C.	MH-02029-8	
UHLENHUTH, EBERHARD H.	MH-06350-3	
UHLMANN, ERICH M.	CA-04701-4	
UHR, JONATHAN W.	AI-01821-8	
UHR, JONATHAN W.	CD-00030-12	
UHR, LEONARD M.	MH-05254-4	
ULFELDER, HOWARD	HD-01251-7	
ULICK, STANLEY	AM-06988-3	
ULLERY, JOHN C.	HD-00618-2	
ULLRICH, KARL J.	AM-06806-3	
ULLRICK, WILLIAM C.	HF-07644-3	
ULMER, DAVID D.	GM-11639-2	
ULRICH, ROGER E.	MH-08841-2	
ULSTROM, ROBERT A.	HD-01457-1	
UMBARGER, H. EDWIN	GM-12522-1	
UMBREIT, WAYNE W	AI-04571-4	
UMEZAWA, HAMAO	CA-05082-5	
UNDERDAHL, NORMAN R.	AI-01073-10	
UNDERWOOD, ARTHUR L., Jr.	GM-08282-4	
UNGAR, FRANK	AM-02583-7	
UNGAR, GEORGES	GM-12650-2	
UNGER, ROGER H.	AM-02700-7	
UNGLAUB, WALTER G.	AM-04345-4	Univ. Texas
Univ. Arizona	Contr. CA-61-4399	Univ. Texas
Univ. Arizona	Contr. CA-63-1136	Univ. Texas
Univ. California	Contr. AI-65-657	Univ. Turin
Univ. California	Contr. AI-65-994	Univ. Utah
Univ. California	Contr. CA-63-13	Univ. Utah
Univ. California	Contr. CA-64-36	Univ. Utah
Univ. California	Contr. CA-64-42	Univ. Utah
Univ. California	Contr. CA-64-579	Univ. Virginia
Univ. California	Contr. CA-65-5	Univ. Washington
Univ. California	Contr. CA-65-609	Univ. Wisconsin
Univ. California	Contr. CA-65-623	Univ. Wisconsin
Univ. California	Contr. CA-65-625	University Labs.
Univ. California	Contr. LM-65-20	Upjohn Co.
Univ. California	Contr. NLM-65-20	Upjohn Co.
Univ. California	Contr. OIR-65-572	Upjohn Co.
Univ. Chicago	Contr. CA-65-4	Upjohn Co.
Univ. Chicago	Contr. CA-65-596	URATA, GUMPEI
Univ. Cncl. Educ. Adm.	Contr. MH-65-70	URBACH, JOHN R.
Univ. Colorado Med. Ctr.	Contr. LM-65-559	URBEN, WALTER J.
Univ. Connecticut	Contr. CA-65-1035	URETZ, ROBERT B.
Univ. Hawaii	Contr. CA-63-558	URIST, MARSHALL R.
Univ. Illinois	Contr. AI-65-1031	URONE, PAUL
Univ. Illinois	Contr. CA-64-878	URQUHART, JOHN
Univ. Leiden	Contr. AI-65-992	URRY, WILBERT H.
Univ. Louisville	Contr. CA-63-1155	URS, GESSNER
Univ. Miami	Contr. CA-64-890	URSIN, HOLGER
Univ. Michigan	Contr. CA-65-45	URSO, PAUL
Univ. Michigan	Contr. CA-65-639	USHERWOOD, PETER N.
Univ. Michigan	Contr. MH-65-1047	USHIBA, DAIZO
Univ. Minnesota	Contr. CA-65-60	USINGER, ROBERT L.
Univ. Minnesota	Contr. CA-65-606	UTIGER, ROBERT D.
Univ. Minnesota	Contr. CA-65-999	UTTAL, WILLIAM R.
Univ. Minnesota	Contr. HD-65-1014	UTTER, MERTON F.
Univ. North Carolina	Contr. AI-65-1027	UVNAS, BORJE K.M.
Univ. Paris	Contr. AI-65-986	UYENO, EDWARD T.
Univ. Pennsylvania	Contr. CA-65-629	UZMAN, BETTY G.
Univ. Pennsylvania	Contr. CA-65-1013	VAGTBORG, HAROLD
Univ. Pittsburgh	Contr. CA-64-504	VAGTBORG, HAROLD
Univ. Rochester	Contr. MH-65-995	VAGTBORG, HAROLD
Univ. San Francisco	Contr. CA-64-886	VAKIRTZI-LEMONIAS, CATHERINE
Univ. Texas	Contr. CA-64-906	VALADIAN, ISABELLE
Univ. Texas	Contr. CA-64-917	VALADIAN, ISABELLE
Univ. Texas	Contr. CA-65-585	VALDES-DAPENA, MARIE A.
Univ. Texas	Contr. CA-65-604	VALDIVIA, ENRIQUE
Univ. Texas	Contr. CA-65-622	VALENSTEIN, ELLIOT S.
Univ. Texas	Contr. CA-65-628	VALENTINE, RAYMOND C.
		VALENTINE, WILLIAM N.
		VALINSKY, DAVID
		VALK, WILLIAM L.
		VALLEE, BERT L.
		VALTIN, HEINZ
		VANABLE, JOSEPH W., Jr.
		VAN ALLEN, MAURICE W.
		VAN ARSDEL, PAUL P., Jr.
		Van ARSDOL, MAURICE D., Jr.
		VANATTA, JOHN C.
		VAN BERGEN, F. H.
		VAN BERGEN, F.H.
		VAN BOGAERT, LUDO
		VAN BRUGGEN, JOHN T.
		VAN BUCHEM, FRANS S.P.
		VANCE, JOHN W.
		VAN CITTERS, ROBERT L.
		VAN CITTERS, ROBERT L.
		VANDAMENT, WILLIAM E.
		van DEENEN, L.L.M.
		VanDEMARK, NOLAND L.
		VAN DEMARK, PAUL J.
		VANDENBERG, STEVEN G.
		Van Den NOORT, STANLEY
		VANDER, ARTHUR J.
		VAN DER HELM, DICK
		VAN DER HELM, DICK

Contr. CA-65-1008	
Contr. DBS-64-557	
Contr. OIR-65-642	
Contr. AI-65-655	
Contr. CA-64-560	
Contr. CA-64-925	
Contr. CA-65-1041	
Contr. MH-65-1068	
Contr. AI-63-1128	
Contr. HD-65-582	
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AM-06454-3	
HE-08855-1	
OM-01801-2	
OM-01802-2	
CA-02739-10	
AM-03793-5	
DE-02103-2	
AP-00357-1	
AP-00423-1	
AM-07063-3	
GM-10702-3	
HF-07383-3	
TW-00091-2	
AI-05883-2	
NB-05626-1	
AI-04738-3	
GM-13197-1	
AM-08630-1	
MH-08786-2	
AM-09657-1	
AM-04063-5	
MH-06655-3	
NB-00190-14	
FR-00278-1	
FR-05519-3	
HE-03834-7	
AM-07987-2	
HD-00772-2	
HD-01134-1	
HD-00501-6	
HE-06523-4	
MH-04529-5	
AI-06272-1	
HE-01069-13	
HM-00431-1	
CA-07711-2	
HE-07297-4	
AM-08469-2	
AM-06997-3	
NB-03354-4	
AI-01510-9	
MH-04729-3	
HE-01574-12	
CD-00042-2	
NB-05518-1	
NB-02420-7	
AM-07201-2	
HF-05471-5	
HE-05872-5	
HF-08433-2	
HE-09217-1	
MH-11197-1	
GM-10198-3	
GM-12247-2	
AI-02658-6	
HD-00843-1	
NB-04680-3	
AM-05077-5	
GM-10514-3	
GM-11982-2	

VAN DER HOEDEN, JACOB AI-03867-3
VAN DER KLOOT, WILLIAM G. NB-04874-2
VANDERLAAN, WILLARD P. AM-01328-9
VAN DER LOOS, HENDRIK NB-04012-3
VAN DER LOOS, HENDRIK NB-05071-2
VAN DER VEEN, JAMES M. GM-11317-2
VANDERWENDE, CHRISTINA CA-08058-2
VANDEWIELE, RAYMOND L. HD-01163-9
VAN DYKE, HARRY B. HE-01788-11
VAN DYKE, JAMES G. AI-06402-1
VAN DYKE, JOHN H. GM-10563-2
VAN ECK, WILLIAM F. HE-08459-2
VAN ESELTINE, WILLIAM P. CC-00003-8
VAN GELDER, NICO M. NB-04433-3
VAN HANDEL, EMIL AI-05054-3
VAN HARN, GORDON L. AM-07476-3
VAN HOLDE, KENSAL E. GM-10830-5
VAN HUSS, WAYNE D. HD-00963-2
VAN HUYSEN, GRANT DE-00745-8
VAN ITALLIE, THEODORE B. AM-08107-1
VAN KLEY, HAROLD CA-06051-4
VAN KLEY, HAROLD J. GM-10604-2
VAN LANCKER, JULIEN L. AM-06556-3
VAN LANCKER, JULIAN L. CA-05446-6
VAN LIEW, HUGH D. AM-08070-3
VAN LOGHEM, J.J. NB-04321-3
VAN MIDDELEM, C.H. FF-00203-5
VAN MIDDLESWORTH, LESTER AM-04689-5
VAN MIEROP, LODEWYK H.S. HE-08495-2
VAN PEENEN, HUBERT J., III AM-04854-2
VAN PILSUM, JOHN F. AM-02731-6
VAN SOMMERS, PETER MH-07501-3
VAN STEVENINCK, JOHNNY TW-00159-1
VAN STONE, JAMES M. NB-01705-7
VAN TAMELEN, EUGENE E. AI-05102-3
VAN TIENHOVEN, ARI NB-04784-2
VAN'T RIET, BARTHOLOMEUS AM-09427-1
VAN VALEN, LEIGH GM-12649-1
VAN VEEN, ANDRE G. AM-08699-1
VAN VUNAKIS, HELEN AI-02792-7
VAN WAGENEN, G. CA-00429-18
VAN WAGENEN, G. GM-10593-14
VAN WAGENEN, G. HD-00480-8
VAN WAGTENDONK, WILLIAM J AI-03614-5
VAN WAGTENDONK, WILLIAM J GM-07486-5
VAN WINKLE, QUENTIN CA-04859-6
VAN WINKLE, QUENTIN GM-10856-6
VAN WYK, JUDSON J. AM-01022-9
VANACE, PETER W. HE-08284-3
VANAMEE, PARKER CA-03817-8
VANE, JOHN R. MH-06635-2
VANTAMELEN, EUGENE E. GM-10421-3
VARCO, RICHARD L. AM-05569-3
VARCO, RICHARD L. GM-04778-9
VARON, HAROLD H AM-08933-1
VASICKA, ALOIS HD-00553-5
VASINGTON, FRANK D. GM-12717-1
VASKA, LAURI HE-09678-1
VASTOLA, EDWARD F. NB-05133-2
VATTER, ALBERT E. GM-10251-3
VAUGHAN, CHARLES W. MH-09218-1
VAUGHAN, HENRY F. ES-00001-1
VAUGHAN, HERBERT G., Jr. MH-06723-3
VAUGHAN, JOHN H. AI-02349-8
VAUGHAN, JOHN H. AM-02443-8
VAUGHAN, VICTOR C., III FR-00075-2
VAUGHAN, WYMAN R. CA-05406-5
VAVICH, MITCHELL G. FF-00509-2
VAZQUEZ, JACINTO J. AI-05850-2
VEIGA, LUIZ A. GM-11888-2
VEIS, ARTHUR DE-01374-5
VEIS, ARTHUR GM-08114-5
VEIS, ARTHUR GM-08222-5
VEITH, ILZA MH-10033-1
VELARDO, JOSEPH T. HD-00147-4
VELASCO, PROVIDENCE C. OM-01033-3
VELASQUEZ, CARMEN C. AI-06603-1
VELEZ, HERNAN DE-01848-3
VELICK, SIDNEY F. HE-09282-1
VELLE, WEIERT TW-00072-2
VELZ, C.J. WP-00689-2
VELZ, CLARENCE J. WP-00091-4
VENABLE, JOHN H. NB-05350-1
VENKITASUBRAMANIAN, T.A. AI-03427-1
VENNART, GEORGE P. AM-06794-3
VENNESLAND, BIRGIT GM-08735-4
VERHAVE, THOM MH-10337-1
VERMEULEN, CORNELIUS W. AM-00475-12
VERMEULEN, THEODORE GM-08042-5
Vermont Dept. Mental Health Contr. MH-65-48
VERMUND, HALVOR CA-06295-4
VERNENGO, MARCELO J. GM-11994-2
VERNIER, ROBERT L. AI-06797-1
VERNON, CHARLES R. OM-01297-3
VERWEY, WILLARD F. AI-04602-4
VERZEANO, MARCEL NB-00649-11
VESTER, JOHN W. AM-01708-8
VESTERGAARD, PER BJORN AM-04262-4
VESTERGAARD, PER BJORN GM-11940-2
VESTLING, CARL S AM-08866-1
VESTLING, CARL S. CA-07617-3
VIAMONTE, MANUEL Jr. CA-06567-3
VIAMONTE, MANUEL, Jr. HE-08546-1
VICK, ROBERT L. HE-08372-2
VIDONE, ROMEO A. HE-08248-2
VIEL, BENJAMIN HE-07366-3
VIETTI, TERESA J. AC-00108-3
VIETTI, TERESA J. CA-05587-5
VIGLIANI, ENRICO C. OH-00143-3
VIGUERS, RICHARD T. FR-05488-3
VILAR, OSCAR HD-01039-1
VILCHES, ANTONIO M. AI-06414-1
VILLAVICENCIO-SUAREZ, ELENA AM-07601-2
VILLEE, CLAUDE A. HD-00404-3
VILLEE, CLAUDE A., Jr. HD-01232-11
VILLEE, DOROTHY B. AM-08026-2
VILLEMONTE, JAMES R. WP-00183-6
VINCENT, WALTER S. GM-11480-2
VINGIELLO, FRANK A. CA-04412-6
VINOGRAD, JEROME CA-08014-1
VINOGRAD, JEROME R. HE-03394-8
Virginia Inst. for Scientific Research Contr. DE-64-558
Virginia Poly. Inst. Contr. OIR-65-1062
VISCELLI, THOMAS A. AM-07324-3
VISEK, WILLARD J. AM-09425-1
VISHNIAC, WOLF AI-04801-4
VISOTSKY, HAROLD M. OM-00900-3
VISSCHER, MAURICE B. HE-03212-8
VISSER, DONALD W. CA-02373-10
VISSER, HENDRICK K.A. TW-00041-3
VITALE, JOSEPH J. CA-01323-13
VITALE, JOSEPH J. HE-03515-8
VITERI, FERNANDO AM-04827-5
VITOLS, M.M. OM-01714-1
VITUMS, ARTURS HE-07240-3
VITZ, PAUL C. MH-11040-1
VLOEDMAN, DERK A., Jr. AI-02401-6
VOEGELE, GEORGE E OM-01739-2
VOELZ, HERBERT G. AI-06600-1
VOGE, MARIETTA AI-04175-2
VOGE, MARIETTA AI-05835-1
VOGEL, F. STEPHEN NB-03670-5
VOGEL, GEORGE GM-11138-2
VOGEL, HENRY J. AI-04796-4
VOGEL, JOHN M. AM-07242-2
VOGT, EVON Z. MH-02100-8
VOGT, EVON Z. MH-11478-1
VOGT, PETER K. CA-06455-3
VOLCANI, BENJAMIN E. GM-08229-5
VOLDENG, A. NELSON MH-10063-1
VOLK, BRUNO W. AM-02203-7
VOLK, BRUNO W. FR-05532-3
VOLK, BRUNO W. NB-02977-5
VOLK, HERBERT CA-03359-9
VOLK, WESLEY A. AM-08388-1
VOLKMAN, ALVIN AM-08976-1
VOLLE, ROBERT L. NB-03434-4
VOLPE, E. PETER GM-11782-2
VOLWILER, WADE AM-07803-6
VON BONIN, GERHARDT NB-03180-4
VON FOERSTER, HEINZ GM-10718-3
VON HAAM, EMMERICH CA-02704-9
VON HAAM, EMMERICH CA-05747-4
VON HAAM, EMMERICH CA-07287-2
VON HIPPEL, PETER H. AM-03412-6
VON HOLT, CLAUS AM-07176-3
VON KAULLA, KURT N. HE-05538-5
VON KORFF, RICHARD W. HE-02080-11
VON LEDEN, HANS NB-04430-4
VON LICHTENBERG, FRANZ AI-02631-7
VON MICSKY, LAJOS I. CA-08075-1
VON MICSKY, LAJOS I. HD-00806-2
VON NOORDEN, GUNTER K. NB-05147-3
VON WETTSTEIN, DITER GM-10819-3
VON ZELLEN, BRUCE W. AI-04908-3
VONEIDA, THEODORE J. MH-07051-3
VOORHESS, MARY L. CA-06312-4
VOORHEES, WILLIAM D., Jr. OM-02101-1
VORIS, LEROY AM-05296-4
VORWALD, ARTHUR J. CA-02507-10
VOSE, GEORGE P. AM-02641-7
VOSE, GEORGE P. AM-07461-3
VOSS, JAMES F HD-00957-3
VOSTI, KENNETH L AI-03638-5
VOSTI, KENNETH L. HF-00700-15
VOTAW, CHARLES L. NB-05069-2
VOTH, HAROLD M. MH-07547-3
VOTH, HAROLD M. MH-10962-1
VRACKO, RUDOLF AM-08521-2
WACHSMAN, JOSEPH T. AI-01728-8
WACHSMAN, JOSEPH T AI-04840-4
WACKER, WALDON B. NB-04747-2
WADA, JUHN A NB-02812-5
WADA, SUNAO OH-00189-1
WADDELL, WILLIAM J. CA-07056-3
WADDELL, WILLIAM R. AM-05882-4
WADKINS, CHARLES L. GM-08966-4
WAELSCH, HEINRICH MH-07345-2
WAELSCH, HEINRICH B NB-00226-13
WAELSCH, HEINRICH B. NB-00557-11
WAGENSTEEN, OWEN H. AM-02150-7
WAGER, ODD A AM-03026-5
WAGGENER, JOHN D. NB-03678-4
WAGGONER, RAYMOND W. NB-00418-11
WAGLE, SHREEPAD R. AM-08242-2
WAGLEY, CHARLES MH-10151-1
WAGMAN, WILLIAM MH-10463-1
WAGNER, BERNARD M. HE-05822-4
WAGNER, CONRAD AI-05200-2
WAGNER, CONRAD AM-09356-1
WAGNER, DONALD E. CA-08003-1
WAGNER, HENRY N. GM-10548-3
WAGNER, JUANITA H. GM-10838-7
WAGNER, MAHLON W MH-10185-1
WAGNER, MARSDEN G. AM-07695-2
WAGNER, MARTIN J. DE-01345-5
WAGNER, MORRIS DE-01887-2
WAGNER, RICHARD GM-10617-2
WAGNER, RICHARD HE-01652-17
WAGNER, RICHARD RH-00089-4
WAGNER, ROBERT P GM-12321-1
WAGNER, ROBERT R. CA-02813-10
WAHLER, ROBERT G. MH-11759
WAIBEL, PAUL E. AM-06910-3
WAIBEL, PAUL E. HE-04177-7
WAILES, JOHN L. AI-02788-6
WAINER, ARTHUR AM-07233-2
WAINIO, W.W AM-04828-3
WAINWRIGHT, JOHN HF-05445-5
WAISMAN, HARRY A. HD-00341-5
WAIT, SAMUEL C., Jr CA-07993-1
WAITZMAN, MORTON B. NB-04243-3
WAJDA, STANISLAW H. HD-00184-2
WAKIL, SALIH J. GM-06242-7
WAKIM, K.G AM-05083-4
WAKIM, K.G. AM-07047-3
WAKIM, KAHLIL G. CA-05305-5
WAKSMAN, BYRON H. AI-06112-2
WAKSMAN, BYRON H. AI-06455-1
WALASZEK, EDWARD J. HE-04873-6
WALASZEK, EDWARD J. MH-01902-9
WALBORSKY, H.M. CA-04065-7
WALD, FLORENCE S. NU-00063-3
WALD, NIEL OH-00187-1
WALD, NIEL H. HD-00337-3
WALDEN, CECIL C. WP-00550-3
WALDEN, ROBERT E. OM-01690-1
WALDHAUSEN, JOHN A HE-09211-1
WALDHAUSEN JOHN A. HE-09243-1
WALDON, EDGAR F HD-00715-2
WALFORD, ROY L. AI-05403-3
WALFORD, ROY L. HD-00534-5
WALFORD, ROY L. HF-02538-8
WALKER, A. EARL NB-03392-4
WALKER, ALEXANDER R.P. HE-04244-5
WALKER, BRUCE E. HD-00153-8
WALKER, BRUCE E. HD-01314-3
WALKER, BRUCE E. NB-03760-4
WALKER, DUARD L. AI-06334-1
WALKER, DUARD L. CA-05682-4
WALKER, EDWARD L. HD-00904-5
WALKER, GEOFFREY F. HD-00181-2
WALKER, HOMER W. FF-00354-7
WALKER, JAMES B. GM-12807-1
WALKER, JAMES F C HM-00007-1
WALKER, JOHN C. AI-04259-4
WALKER, LEON B., Jr. NB-04943-2
WALKER, MATTHEW HE-06929-3
WALKER, PHILIP L. AP-00406-1
WALKER, RICHARD B. AM-04985-3
WALKER, RICHARD I CA-07028-3
WALKER, RICHARD N. MH-11330-1
WALKER, ROBERT W AI-04210-1

ALPHABETICAL LISTING OF INVESTIGATORS

WALKER, ROLAND CA-05790-4
WALKER, RONALD E. MH-11739-1
WALKER, SHEPPARD M. NB-05444-1
WALKER, W. GORDON AM-03359-6
WALKER, W. GORDON HF-03303-8
WALL, J. ROBERT GM-11612-2
WALL, PATRICK D. NB-04897-2
WALLACE, ANDREW G. HF-08845-1
WALLACE, ANTHONY F. MH-11350-1
WALLACE, CHARLES R. HF-08480-3
WALLACE, ELEANOR Z. AM-08044-2
WALLACE, FRANKLIN G. AI-02373-7
WALLACE, JOHN H. AI-06536-1
WALLACE, JOHN M. HF-07664-4
WALLACE, SAMUEL E. MH-11411-1
WALLACE, WILLIAM M. HD-00382-7
WALLACH, DONALD F.H. CA-07382-3
WALLACH, HANS MH-11089-1
WALLACH, STANLEY AM-08453-1
WALLBANK, ALFRED M. CA-04610-6
WALLER, GEORGE R. GM-08624-3
WALLER, GEORGE R. GM-11144-3
WALLER, MARCUS B. MH-07534-3
WALLER, MARION AM-04549-4
WALLERSTEIN, HARRY CA-06232-4
WALLERSTEIN, HARRY CA-07098-2
WALLERSTEIN, RALPH O. AM-02887-7
WALLERSTEIN, ROBERT S. MH-08308-2
WALLIS, ROBERT C GM-12362-1
WALSER, MACKENZIE AM-02306-7
WALSH, FRANK B. NB-02863-5
WALSH, RAYMOND R. NB-02772-5
WALSH, S. ZOE HF-07959-2
WALSTER, ELAINE C MH-10192-1
WALTER, HAROLD J. AI-02409-6
WALTER, HARRY HE-08304-2
WALTER, JOSEPH L. GM-10855-6
WALTER, JOSEPH L. HE-02218-10
WALTER, ROBERT I. GM-10605-2
WALTER, WILBERT G. MH-11450-1
WALTER, WILLIAM G. FF-00198-5
WALTERS, GUY M. MH-10445-1
WALTERS, JAMES V. WP-00055-2
WALTERS, RICHARD H. HD-01456-1
WALTNER, JULES G. NB-03854-3
WALTON, ALAN G. AM-08437-1
WALTON, ROBERT P. HE-00040-18
WALTZ, ARTHUR G. NB-05975-1
WALTZMAN, MORTON B. NB-04319-4
WALZER, RICHARD A. AM-07241-3
WALZER, EUGENE H. AI-05783-2
WAMPLER, DALE L. GM-11193-3
WANG, CHIH H. AI-01144-9
WANG, HARRY CA-07487-2
WANG, JUI H. GM-04483-10
WANG, KUANG-MEI H. HD-01856-1
WANG, S.C. NB-00031-16
WANG, TUNG-YUE GM-11698-3
WANGENSTEEN, OWEN H. AM-05689-4
WANGENSTEEN, OWEN H. HF-03115-9
WANNAMAKER, LEWIS W. CD-00151-1
WANNAMAKER, LEWIS W. HF-01829-9
WANTZ, GEORGE E. HE-09207-1
WAPNER, SEYMOUR MH-00348-15
WARBASSE, JAMES R. HF-07721-3
WARD, ARTHUR A., Jr. NB-00193-13
WARD, ARTHUR A., Jr. NB-04053-3
WARD, DARRELL N. AM-03033-6
WARD, DARRELL N. CA-08059-1
WARD, JAMES W. NB-01954-7
WARD, JAMES W. NB-04261-3
WARD, JOHN C. WP-00914-1
WARD, JOHN R. AM-02255-7
WARD, PAUL H. NB-05674-1
WARD, PAUL H. NB-05690-1
WARD, ROBERT AI-03079-6
WARD, ROBERT FR-00086-3
WARD, ROBERT FR-05469-3
WARD, ROBERT NB-03453-3
WARD, W. DIXON NB-04403-3
WARDEN, HERBERT E. HE-06619-4
WARDNER, LEROY H. CA-07412-2
WARDWELL, WALTER I. HF-07522-3
WARE, FREDERICK HE-09170-1
WARE, H. HUDNALL, Jr. NB-02363-8
WARE, WILLIAM H. DE-01647-3
WARING, HORACE GM-11077-2
WARING, JOSEPH I. GM-06509-6
WARKANY, JOSEF HD-00502-5
WARKANY, JOSEF HD-00525-5
WARNER, EMORY D. GM-09346-3
WARNER, HOMER R. FR-00012-3
WARNER, HOMER R. HF-03607-8
WARNER, LOUISE NB-05302-2
WARNER, NANCY E. HF-03944-6
WARNER, RICHARD R.P. AM-03228-7
WARNER, ROBERT C. GM-04967-6
WARNICK, A.C. GM-08246-4
WARREN, BERT HE-09712-1
WARREN, CHARLES E. WP-00135-10
WARREN, CHARLES E. WP-00157-7
WARREN, DONALD W. DE-02002-2
WARREN, JAMES C. AM-05532-4
WARREN, JAMES C. AM-05546-4
WARREN, JAMES V. CD-00110-1
WARREN, JAMES V. HF-06414-5
WARREN, JAMES V. HE-09884-1
WARREN, JOHN M. MH-04726-5
WARREN, LEONARD HD-00052-2
WARREN, LIONEL G. AM-08799-1
WARREN, MARGUERITE O. GM-00598-4
WARREN, RICHARD HF-06763-4
WARREN, ROLAND L. MH-11085-1
WARREN, SHIELDS CA-06930-3
WARREN, SHIELDS FR-05591-1
WARREN, WALTER D. HF-08411-2
WARWICK, WARREN J. AM-07500-3
WARWICK, WARREN J. DE-02035-2
WASHBURN, SHERWOOD L. MH-08507-2
WASHBURN, SHERWOOD L. MH-08623-2
WASHBURN, SHERWOOD L. MH-11273-1
WASHBURN, SHERWOOD L. MH-11487-1
WASSERMAN, HARRY H. AI-04798-3
WASSERMAN, HARRY H. GM-07874-5
WASSERMAN, KARLMAN HE-06591-4
WASSERMAN, LOUIS B. AM-01063-9
WASSERMAN, LOUIS R. AM-04434-5
WASSERMAN, LOUIS R. CA-04457-6
WASSERMAN, MORRIS AM-08928-1
WASSERMAN, ROBERT H. AM-04652-5
WASSERMAN, ROBERT H. AM-06271-3
WATANABE, TSUTOMU AI-04740-3
WATERHOUSE, CHRISTINE CA-07123-2
WATERMAN, NORTON G. AI-06319-1
WATERMAN, TALBOT H. NB-03076-5
WATERS, LEVIN L. HF-01794-11
WATERSTRAAT, MARY J. HM-00415-1
WATERSTRAT, RICHARD M. DE-00949-5
WATKINS, ELTON, Jr. HE-03803-7
WATKINS, W. LORRAINE CA-06226-4
WATLINGTON, CHARLES O. AM-06481-3
WATRACH, ADOLF M. AI-03820-5
WATSON, C. WESLEY NB-05357-2
WATSON, CECIL J. AM-02096-8
WATSON, CECIL J. AM-04435-5
WATSON, DENNIS W. AI-03439-6
WATSON, DENNIS W. AI-06487-1
WATSON, JAMES D. GM-09541-4
WATSON, JOHN F. AM-07352-3
WATSON, JOHN S. MH-10451-1
WATSON, JOSEPH A. OH-00208-1
WATSON, MICHAEL L. CA-03589-8
WATSON, MICHAEL L. CA-06541-3
WATSON, R. JANET AM-03491-6
WATSON, ROBERT F. HE-01138-14
WATSON, STANLEY W. GM-11214-2
WATT, DEAN D. NB-05525-1
WATTENBERG, LEE W. CA-09599-7
WATTS, BETTY M. FF-00179-6
WATTS, DANIEL T. MH-05972-4
WATTS, JOHNNIE H. AM-08556-1
WAUD, DOUGLAS R NB-04618-3
WAUGH, DAVID F. GM-05410-8
WAUGH, JOHN S. GM-08811-3
WAUGH, NANCY C. MH-08119-2
WAUGH, WILLIAM H. HF-06092-5
WAX, SANDOR H. HE-09173-1
WAY, E. LEONG GM-01839-17
WAY, JAMES L. MH-10109-1
WAY, JAMES L. NB-04541-3
WAYLAND, J. HAROLD HE-07902-3
WAYLAND, J. HAROLD HE-08977-1
WAYNER, MATTHEW J. MH-11032-1
WAYS, PETER AM-08864-1
WAYS, PETER O. HE-07326-4
WEARDEN, STANLEY GM-11881-1
WEARY, PEYTON E. AM-06239-4
WEATHERBEE, CARL CA-07115-2
WEATHERSBY, A. BURNS AI-05253-3
WEAVER, JAMES N. GM-10947-3
WEAVER, JOHN C. TW-00146-1
WEAVER, RALPH H AI-04958-2
WEAVER, ROBERT G. AM-05397-4
WEAVER, ROBERT G. HE-08784-1
WEBB, GEORGE N. HF-02923-9
WEBB, JOHN L. HF-09649-1
WEBB, WATTS R. AM-08692-2
WEBB, WATTS R. HF-08946-2
WEBB, WILSE B. MH-03881-5
WEBBER, MILO M. AI-05528-1
WEBER, ALVIN F. AM-02462-5
WEBER, ALVIN F. NB-01081-9
WEBER, ANNEMARIE GM-10175-3
WEBER, GEORGE CA-05034-6
WEBER, GREGORIO AM-07577-2
WEBER, GREGORIO GM-11223-3
WEBER, JAMES H. GM-12600-1
WEBER, LENNARD L. CA-07378-2
WEBER, MORTON M. AI-03046-6
WEBER, ROBERT J. MH-10725-1
WEBER, WALTER J., Jr. WP-00706-1
WEBER, WILLIAM J HE-09452-1
WEBSTER, DAVID D. NB-01059-9
WEBSTER, DOUGLAS B. NB-04365-2
WEBSTER, DOUGLAS B. NB-05800-1
WEBSTER, GEORGE D. AM-06933-3
WEBSTER, GEORGE AM-08660-1
WEBSTER, HENRY D. NB-03789-4
WEBSTER, LESLIE T., Jr. AM-06853-3
WEBSTER, RONALD L. MH-11620-1
WECHSLER, MAGDALENA B. MH-06306-3
WECKEL, KENNETH G. WP-00535-2
WEDEEN, RICHARD P. AM-07978-2
WEED, LAWRENCE L. AI-05697-2
WEED, LAWRENCE L GM-11197-3
WEED, ROBERT I HE-06241-5
WEEKS, OWEN B AM-09400-1
WEEKS, PAUL M. AM-09108-1
WEENS, H. STEPHEN RH-00357-1
WEGENER, JONATHAN G. NB-04913-2
WEGMAN, MYRON E. FR-05447-4
WEGRIA, RENE HE-04532-6
WEGRIA, RENE HF-09031-1
WEHRLE, PAUL F. AI-04375-5
WEHRLE, PAUL F. AI-05058-3
WEIBEL, EWALD R. TW-00057-3
WEIDANZ, WILLIAM P. AI-06060-2
WEIDE, KENNETH D. AI-06363-1
WEIDMANN, STEPHEN M. DE-02049-2
WEIDNER, MICHAEL G., Jr. HE-08373-2
WEIGANG, OSCAR E., Jr. GM-11644-3
WEIGERT, EDITH H. OM-01193-3
WEIGLE, WILLIAM O. AI-03882-4
WEIL, ALFRED J. HD-00466-11
WEIL, MAX H. HE-05570-5
WEIL, MAX H. HF-07811-2
WEIL, WILLIAM B., Jr. HD-00642-2
WEILAND, I. HYMAN OM-01480-1
WEILER, EBERHARDT C. CA-04946-5
WEILL, C. EDWIN GM-08927-4
WEIMAR, VIRGINIA L. NB-03788-4
WEIMER, HENRY E. AM-08717-1
WEIMER, HENRY E. CA-02368-11
WEINBAUM, GEORGE AM-07418-3
WEINBERG, ARNOLD N. AM-07499-3
WEINMANN, CLARENCE J. AI-05966-2
WEINMANN, CLARENCE J. AI-06104-2
WEINBERG, EUGENE D. AI-06268-1
WEINBERG, MILTON, Jr. HE-03518-7
WEINBERG, SIDNEY R. HE-09024-1
WEINBERGER, NORMAN M. MH-11250-1
WEINER, HERBERT MH-11889-1
WEINER, HYMAN J. OM-01523-1
WEINER, IRWIN M. HE-04015-6
WEINER, LAWRENCE M. CA-08217-1
WEINER, LEONARD OM-01446-1
WEINER, MURRAY HF-04347-6
WEINER, NORMAN NB-02947-5
WEINER, NORMAN NB-04663-3
WEINER, NORMAN NB-05723-1
WEINFELD, HERBERT CA-02877-9
WEINHEIMER, ALFRED J. GM-08003-5
WEINHOUSE, SIDNEY AM-05487-4
WEINHOUSE, SIDNEY CA-07174-3
WEINREICH, URIEL MH-05743-4
WEINREICH, URIEL MH-08106-2
WEINSTEIN, ARVIN B HE-08911-2
WEINSTEIN, BORIS GM-12120-2
WEINSTEIN, EUGENE MH-07181-2
WEINSTEIN, IRWIN M. AM-08829-1
WEINSTEIN, LEONARD H. AP-00189-4
WEINSTEIN, LEONARD H. CA-04794-7
WEINSTEIN, LOUIS AI-02564-6
WEINSTEIN, LOUIS AI-04365-1
WEINSTEIN, SAM DE-01252-5
WEINSTEIN, SIDNEY MH-10393-2

WEINTRAUB, DAVID H. HD-00249-4
WEIR, JOHN A. GM-07786-5
WEIR, MORTON W. HD-00874-4
WEIR, MORTON W. MH-08931-2
WEIR, RUTH H. HD-01580-1
WEIS, PEDDRICK NB-05755-1
WEISBERG, PAUL MH-11699-1
WEISBERGER, AUSTIN S. GM-12756-1
WEISBERGER, AUSTIN S. HE-03952-7
WEISBERGER, DAVID DE-00326-9
WEISER, HARRY H. EF-00020-7
WEISER, HENRY H. EF-00024-6
WEISER, RUSSELL S. AM-00543-14
WEISKRANTZ, LAWRENCE NB-04800-2
WEISS, A. KURT HD-00648-2
WEISS, ALFRED D. NB-05754-1
WEISS, ARTHUR J. CA-04100-7
WEISS, ARTHUR J. CA-07122-3
WEISS, BERNARD MH-11752-1
WEISS, CHARLES M. WP-00561-2
WEISS, DAVID W. CA-08357-7
WEISS, HAROLD S. HE-09026-2
WEISS, KARL RH-00302-2
WEISS, LEON CA-05375-5
WEISS, PAUL A. CA-06375-3
WEISS, ROBERT F. MH-11872-1
WEISSLER, ARNOLD M. HE-04737-5
WEISSLER, ARNOLD M. HE-07529-3
WEISSMAN, SAMUEL I. GM-13205-1
WEISSMANN, BERNARD AM-02479-7
WEISSMANN, BERNARD AM-07994-1
WEISSMANN, GERALD AM-08361-1
WEITMAN, MORRIS MH-08572-2
WEITZMAN, ELLIOT D. MH-04961-4
WEITZNER, STANLEY W. NB-04956-2
WELCH, ANNEMARIE S. MH-11795-1
WELCH, ARNOLD D. CA-02817-9
WELCH, C. STUART AM-00708-11
WELCH, KEASLEY NB-05705-1
WELDON, CLARENCE S. HE-01326-11
WELIKY, IRVING AM-07330-2
WELKER, NEIL F. AI-04382-1
WELKER, WALLACE I. NB-03249-5
WELLER, EDWIN M. HD-00748-2
WELLER, JOHN M. HE-08083-2
WELLER, RICHARD I. RH-00366-4
WELLER, THOMAS H. AI-01023-10
WELLINGS, S.R. CA-08158-1
WELLINGS, SEFTON R. HD-00104-5
WELLNER, DANIEL AM-08462-2
WELLOCK, WILLIAM D. DH-00022-2
WELLS, ARTHUR H. GM-07471-4
WELLS, HERBERT DE-01969-2
WELLS, HERBERT HD-00149-7
WELLS, IBERT C. AM-05235-5
WELLS, JOSEPH NB-05233-2
WELLS, LEMEN J. HD-00412-9
WELLS, ROE E., Jr. HE-06424-4
WELLS, WILLIAM W. HE-02458-9
WELLS, WILSON HM-00316-1
Wells Labs., Inc. Contr. CA-64-22
WELSH, GEORGE W., III AM-05748-4
WELSH, GEORGE W., III AM-06322-3
WELSH, JACK D AM-04298-3
WELSH, JOHN H. NB-00623-18
WELSH, RONALD A. AI-03599-5
WELSH, RONALD A. CA-07904-1
WELSHIMER, HERBERT J. AI-01404-9
WELT, ISAAC D. HE-09466-1
WELT, LOUIS G AM-08458-1
WELT, LOUIS G. AM-08685-2
WELT, LOUIS G. HE-01301-13
WELTY, JOSEPH D., Jr. HE-09234-1
WEN, C.Y. WP-00699-1
WEN, WEN-YANG GM-11684-2
WENAR, CHARLES MH-07887-2
WENDAHL, RONALD W. NB-04759-2
WENGER, BYRON S. GM-11238-2
WENGER, MARION A. MH-00788-12
WENKERT, ERNEST GM-11571-2
WENNEMARK, JAMES R. HE-07483-3
WENNER, CHARLES E. CA-05115-5
WENNER, HERBERT A. AI-04263-1
WENT, FRITS W. AP-00434-1
WENT, HANS A GM-07286-5
WENTZ, WILLIAM B. CA-07765-1
WENZEL, BERNICE M. MH-08839-2
WEPMAN, JOSEPH M. MH-01876-8
WERBOFF, JACK HD-01019-1
WERBOFF, JACK HD-01082-1
WERBOFF, JACK MH-08953-2
WERDER, ALVAR A. CA-04888-6
WERDER, ALVAR A. CA-06985-3
WERK, EMILE E., Jr. NB-06238-1
WERKHEISER, WILLIAM C. CA-05298-5
WERMAN, ROBERT NB-04405-3
WERMERS, GEORGE W. GM-07305-5
WERNER, GERHARD MH-07882-2
WERNER, OSWALD MH-10940-1
WERNER, SIDNEY C. AM-00008-17
WERNERT, JOHN J OM-01726-2
WERNERT, JOHN J., Jr. OM-02068-1
WERSALL, JAN O. NB-03956-3
WERTHEIMER, F.W. DE-01755-1
WERTHESSEN, NICHOLAS T. HD-00130-2
WESOLOWSKI, SIGMUND A. HE-03286-8
WESSEL, HANS U. HE-08839-2
WESSELLS, NORMAN K. GM-10060-3
WESSEN, ALBERT F. CH-00024-5
WESSLER, STANFORD HE-09326-1
WESSON, LAURENCE G., Jr. HE-07592-4
WEST, ALLEN S. AI-01155-9
WEST, CHARLES A. GM-07065-5
WEST, PHILIP W. AP-00117-5
WEST, PHILIP W. AP-00128-5
WEST, PHILIP W. WP-00788-1
WEST, THEODORE C. HE-07321-3
WEST, WILLIAM T. AM-08648-2
West Indies Univ. Contr. AI-65-35
West Virginia Univ. Contr. CA-64-877
WESTERFELD, W.W. MH-01947-9
WESTERFELD, WILFRED W. AM-09106-1
WESTERMAN, RODERICK A. TW-00154-1
Western Reserve Univ. Contr. CA-62-506
Western Reserve Univ. Contr. CA-64-524
Western Reserve Univ. Contr. LM-65-1064
WESTHEAD, EDWARD W. GM-08474-5
WESTHEIMER, FRANK H. GM-04712-9
WESTHEIMER, GERALD NB-03154-4
Westinghouse Contr. HE-65-1060
WESTOFF, CHARLES F. CH-00144-1
WESTON, JAMES A. GM-13072-1
WESTOVER, JOSEPH R. DE-01650-3
WESTPHAL, MILTON C. NB-02604-7
WESTPHAL, ULRICH F. AM-04040-5
WESTPHAL, ULRICH F. AM-06369-4
WESWIG, PAUL H. AM-05799-4
WESWIG, PAUL H. HE-09228-1
WETLAUFER, DONALD B. GM-10900-4
WETZEL, NICHOLAS NB-04801-2
WEVER, E.G. NB-02973-5
WEVER, ERNEST G. NB-03798-3
WEXLER, BERNARD C. HE-06315-5
WEXLER, BERNARD C. HE-08813-1
WEXLER, BERNARD C. HF-08868-2
WEYMOUTH, PATRICIA P. CA-04333-3
WHALEN, RICHARD F HD-00893-3
WHALEN, WILLIAM J. HE-05390-6
WHALEY, W. GORDON GM-07289-5
WHALLEY, PEGGY J. AM-07338-3
WHANG, ROBERT HE-08673-2
WHARTON, DAVID C. HE-09741-1
WHARTON, G.W. AI-04434-4
WHARTON, LAWRENCE R., Jr. HD-00417-4
WHARTON, PETER S. GM-09759-3
WHEAT, MYRON W., Jr. CA-07452-2
WHEAT, ROBERT W. AI-01659-8
WHEATLEY, DAVID MH-04135-4
WHEATLEY, SPENCER B. OM-00813-3
WHEATLEY, VICTOR R. AM-06801-3
WHEELER, CHARLES M. AI-02884-6
WHEELER, CLAYTON E., Jr. AI-04733-4
WHEELER, CLAYTON E., Jr. AI-04734-4
WHEELER, DESMOND M.S. CA-05796-5
WHEELER, H. BROWNELL HF-07372-3
WHEELER, HARRY E. AI-04033-4
WHEELER, HARRY E. FF-00564-2
WHEELER, HENRY O. AM-04011-6
WHEELER, HENRY O. AM-07374-3
WHEELER, OWEN H. GM-12952-1
WHEREAT, ARTHUR F. HF-07290-4
WHIPPLE, GERALD H. HE-07015-4
WHISLER, HOWARD C. AI-05882-3
WHISTLER, ROY L. AM-06782-3
WHISTLER, ROY L. HE-08413-2
WHITAKER, JOHN R. GM-05216-8
WHITBY, KENNETH T. AP-00136-5
WHITBY, KENNETH T. AP-00283-2
WHITCOMB, WALTER H. CA-08005-1
WHITE, ABRAHAM CA-07470-2
WHITE, ALLEN I. NB-02054-6
WHITE, ARNOLD A. AM-03766-6
WHITE, ARTHUR C. CC-00060-2
WHITE, BURTON L. HD-00761-2
WHITE, COLIN GM-11803-2
WHITE, DAVID C. GM-10285-3
WHITE, DAVID G. CA-07807-2
WHITE, EMIL H. CA-05234-4
WHITE, EMIL H. GM-10849-8
WHITE, FRED G. AM-06717-3
WHITE, HAROLD B., Jr. AM-06895-3
WHITE, HAROLD B., Jr. HE-06809-3
WHITE, HARVEY L. AM-00092-15
WHITE, JAMES G. AM-07917-6
WHITE, JAMES R. AI-06211-2
WHITE, JOE L. FS-00060-4
WHITE, JOSEPH M. FR-05411-4
WHITE, KERR L. CH-00158-1
WHITE, KERR L. CH-00159-1
WHITE, LOWELL E., Jr. NB-02896-5
WHITE, MICHAEL J.D. GM-07212-5
WHITE, RICHARD K. AM-05214-4
WHITE, RICHARD P. MH-11189-1
WHITE, RICHARD P. NB-04305-3
WHITE, ROBERT A. MH-11353-1
WHITE, ROBERT G. AI-06249-2
WHITE, ROBERT J. NB-03859-3
WHITE, RUTH P. NU-00080-2
WHITE, SHELDON H. MH-03639-5
WHITE, THOMAS G. AM-09057-1
WHITE, THOMAS T. AM-05277-4
WHITE, VANDON E. AM-06319-4
White Eagle Farms Contr. CA-65-37
WHITEHAIR, CHARLES K. AI-03446-5
WHITEHORN, WILLIAM V. HE-01353-13
WHITELEY, HELEN R. CA-03931-7
WHITEMAN, MARTIN MH-10578-1
WHITING, J.W. MH-10306-1
WHITING, JOHN W.M. MH-01096-11
WHITLEY, JIMMIE D. GM-12073-2
WHITLOCK, DAVID G. NB-05494-1
WHITLOCK, HOWARD W. AM-08064-2
WHITMAN, ROY M. MH-03033-6
WHITMORE, GORDON F. CA-06229-4
WHITMORE, WILLET F., Jr. HD-00027-2
WHITNEY, JOHN E. AM-01535-9
WHITNEY, JOHN E. AM-09135-1
WHITNEY, JOHN E. CA-08339-1
WHITNEY, RAE FR-00139-2
WHITNEY, RAE GM-11445-2
WHITNEY, ROBERT McL. EF-00592-2
WHITNEY, VINCENT H. GM-09685-3
WHITTAKER, J. RICHARD HD-00059-2
WHITTAKER, VICTOR P. NB-03928-3
WHITTEN, CHARLES F. FR-00074-3
WHITTEN, CHARLES F. HE-07880-2
WHITTENBERGER, JAMES L. FS-00002-3
WHITTINGHILL, MAURICE GM-09358-4
WHORTON, C. MERRILL GM-11810-2
Wiche Contr. HD-65-989
WICHERS, EDWARD GM-05709-3
WICK, ARNE N. AM-05685-3
WICK, EMILY L. EF-00473-3
WICKELGREN, WAYNE A. MH-08890-2
WICKENS, DELOS D. MH-08423-2
WICKSTROM, JACK K. AC-00099-3
WICKSTROM, JACK K. HD-00510-6
WIDELOCK, DANIEL HD-00297-6
WIEBERS, JACOB E. GM-10811-3
WIEBERS, JACOB E. MH-06346-3
WIEBERS, JOYCE L. AI-04855-3
WIEDEMAN, MARY P. HE-02880-10
WIEDERHIELM, CURT A. HE-07152-4
WIEDERMANN, GERHARD TW-00136-1
WIENER, ALEXANDER S. GM-09237-4
WIENER, ALEXANDER S. GM-12074-2
WIENER, EARL L. AC-00126-2
WIENER, EARL L. AC-00237-1
WIENER, LOUISE L. OM-00907-3
WIENER, MORTON MH-03860-6
WIENS, ARTHUR N. NU-00133-2
WIESE, HILDA F. AM-04309-5
WIESE, HILDA F. HE-05658-5
WIESEL, BENJAMIN MH-10546-1
WIESEL, TORSTEN N. NB-05564-1
WIESMEYER, HERBERT AI-05254-3
WIEST, WALTER G. AM-09125-1

ALPHABETICAL LISTING OF INVESTIGATORS

WIGGERS, HAROLD C. FR-00094-2
WIGGERS, HAROLD C. FR-05394-4
WIGLEY, RICHARD A. AM-06550-3
WILBUR, DONALD A. FF-00114-8
WILBUR, KARL M. DE-01382-5
WILBUR, RICHARD S. AM-08108-2
WILCOX, HARRY H. NB-02637-5
WILCOX, PHILIP E. HE-03037-9
WILCOX, WESLEY C. AI-06422-1
WILDBERGER, WILLIAM C. OM-02160-1
WILDE, CHARLES E., JR. DE-02047-2
WILDE, RALPH C. CA-03356-9
WILDE, WALTER S. HE-09169-1
WILDER, PELHAM, Jr. CA-04298-6
WILDER, ROBERT J. HE-08853-1
WILDERMAN, MALBERN N. DE-01186-3
WILDMAN, WILLIAM C. HE-07503-3
WILDMAN, SAMUEL G. AI-00536-12
WILDS, ALFRED L. AM-07832-2
WILENS, SIGMUND L. HE-01088-14
WILEY, BILL B AI-05441-3
WILEY, GEORGE A GM-08956-4
WILEY, ROBERT CA-07031-2
WILGRAM, GEORGE F GM-09726-4
WILHELM, D.L. HE-08513-2
WILHELMI, ALFRED E. AM-03598-6
WILHELMI, ALFRED E. HD-01231-15
WILHELMJ, CHARLES M., Jr. AM-08459-2
WILHOFT, DANIEL C. AM-08710-1
WILHOIT, RANDOLPH C. GM-12744-1
WILKEN, DAVID R. GM-10594-3
WILKINS, PETER O. AI-04367-1
WILKINS, ROBERT HE-06343-3
WILKINS, ROBERT W. HF-07299-3
WILKINSON, CHARLES B. OM-01513-2
WILL, JOHN J. CA-07457-2
WILLARD, MARY L. GM-12892-1
WILLARD, WILLIAM R. FR-05374-4
WILLENKIN, ROBERT L. NB-05495-1
WILLERS, ERNEST H. HE-05018-5
WILLETT, HILDA POPE AI-05968-2
WILLIAMS, ANNA M. CA-04186-4
WILLIAMS, C.I. OM-01961-1
WILLIAMS, CHARLES H., Jr. AM-09313-1
WILLIAMS, CLYDE M. AM-08391-5
WILLIAMS, EDWIN G. RH-00054-2
WILLIAMS, EDWIN G. RH-00175-1
WILLIAMS, G. RAINEY HF-08621-2
WILLIAMS, GERALD A AM-08828-1
WILLIAMS, HARRY B. OM-01416-2
WILLIAMS, HARRY B. OM-01611-2
WILLIAMS, HARRY L. NB-03544-12
WILLIAMS, JAMES S. GM-11607-2
WILLIAMS, JOHN I NB-05496-1
WILLIAMS, JOHN W. AI-04445-3
WILLIAMS, M. HENRY, Jr. HF-08519-2
WILLIAMS, MARGARET L. HD-01174-4
WILLIAMS, MARTIN W. CA-07775-1
WILLIAMS, MARTIN W. GM-11991-2
WILLIAMS, MARY ANN AM-07753-2
WILLIAMS, NED B. DE-00559-8
WILLIAMS, NED B. DF-01956-2
WILLIAMS, NED B. FR-05337-4
WILLIAMS, NORMAN E. GM-08777-3
WILLIAMS, PAUL H. AI-04149-4
WILLIAMS, R.D. BROOKE HD-01056-1
WILLIAMS, RALPH C., Jr. AM-07372-3
WILLIAMS, ROBERT H. AM-02456-7
WILLIAMS, ROBERT P. AI-00670-11
WILLIAMS, ROBERT P. AI-01535-8
WILLIAMS, ROBLEY C. CA-02245-12
WILLIAMS, ROBLEY C. GM-12820-1
WILLIAMS, ROGER D. AM-04441-3
WILLIAMS, T. FRANKLIN HM-00074-6
WILLIAMS, T. GLYNE OM-01275-2
WILLIAMS, T. GLYNE OM-02061-1
WILLIAMS, THEODORE P. NB-05256-2
WILLIAMS, VIRGINIA R. GM-11016-3
WILLIAMS, W. LANE HF-04052-7
WILLIAMS, W. LANE HF-05907-4
WILLIAMS, W. LANE HF-07318-3
WILLIAMS, WALTER F. GM-11503-2
WILLIAMS, WILLIAM AM-07301-3
WILLIAMS, WILLIAM J. HF-06757-4
WILLIAMS, WILLIAM L. AI-06067-2
WILLIAMS, WILLIAM L. GM-10034-3
WILLIAMS-ASHMAN, HOWARD G. HD-01453-1
WILLIAMSON, CLARENCE K. AI-06789-1
WILLIAMSON, HAROLD E. AM-05298-4
WILLIAMSON, HAROLD F. CH-00198-1
WILLIAMSON, JOSEPH R. AM-07728-2
WILLIAMSON, KENNETH L. GM-10224-3
WILLIAMSON, THOMAS G. NB-05119-2
WILLIR, JOHN S. GM-11494-2
WILLIS, WILLIAM D., Jr. NB-04779-2
WILLNER, ALLEN MH-11316-1
WILLSON, CLYDE D. GM-10375-3
WILLSON, JOHN T. HD-00031-2
WILNER, DANIEL M. OM-00089-8
WILNER, DANIEL M. OM-01358-2
WILSDORF, HEINZ G.F. DE-02111-2
WILSKA, ALVAR P. GM-11852-2
WILSON, ALAN B. OM-00970-3
WILSON, BENJAMIN J. AI-07000-1
WILSON, BILLY R. FS-00016-2
WILSON, BROTHER RAPHAEL RH-00239-2
WILSON, CHARLES B. CA-07859-1
WILSON, DONALD M. NR-03927-4
WILSON, DOROTHY VH-00092-2
WILSON, EDWARD F AI-04929-1
WILSON, EVERETT, D GM-11020-3
WILSON, HENRY E. AI-03451-5
WILSON, IRWIN B. VR-00571-18
WILSON, J. WALTER CA-00510-18
WILSON, J. WALTER CA-04046-7
WILSON, JAMES G. HD-00607-3
WILSON, JEAN D. AM-03892-6
WILSON, JEAN D AM-08749-1
WILSON, JOE B. AI-06161-1
WILSON, JOHN E. GM-07699-5
WILSON, JOHN F AM-05000-5
WILSON, JOHN L. HE-07999-2
WILSON, JOHN R. FR-05334-4
WILSON, M. KENT GM-10136-3
WILSON, MIRIAM G. HD-01871-1
WILSON, PERRY W. AI-01417-10
WILSON, RICHARD B. CA-05126-5
WILSON, RONALD S. MH-06332-2
WILSON, RUSSELL H. HE-02153-9
WILSON, THEODORE A. HE-09724-1
WILSON, THOMAS E. AI-04659-2
WILSON, THOMAS E. DE-01402-5
WILSON, THOMAS H AM-05736-4
WILSON, VERNON E. FR-05387-4
WILSON, VICTOR J. NB-02619-6
WILSON, WALTER A. FR-05328-4
WILSON, WALTER L. GM-12916-1
WILSON, WARNER R MH-10585-1
WILSON, WILBOR O. NB-04171-3
WILSON, WILLIAM A., Jr. MH-10972-2
WILSON, WILLIAM B. GM-11636-2
WIMBER, DONALD E. GM-11702-2
WINDHAM, GERALD O. OM-00958-3
WINDHAM, GERALD O. OM-02115-1
WINDWER, STANLEY GM-10975-3
WINEFORDNER, JAMES D. GM-11373-2
WINEGRAD, ALBERT I. AM-04722-5
WINEGRAD, SAUL NR-04409-3
WINER, ALFRED D. GM-07578-5
WINER, BERTRAM M HF-06119-5
WINITZ, HARRIS HD-01657-1
WINGO, CURTIS W. FS-00023-2
WINKELMAN, JAMES CA-08310-1
WINKELMANN, RICHARD K. NR-01755-8
WINKELSTEIN, WARREN, Jr. AP-00181-3
WINKELSTEIN, WARREN, Jr. CC-00129-1
WINKELSTEIN, WARREN, Jr. CD-00135-1
WINKELSTEIN, WARREN, Jr. HD-00017-2
WINKERT, JOHN W. HF-09540-1
WINKLER, GERALD F. NB-04600-2
WINN, HOWARD E. NR-03241-5
WINNICK, THEODORE GM-09335-4
WINNICK, WILMA A. MH-10538-1
WINOGRAD, EUGENE HD-00933-4
WINSHIP, DANIEL H AM-08687-1
WINSHIP, THEODORE CA-06885-3
WINSHIP, THEODORE CA-09263-13
WINSTEAD, MELDRUM B. NB-05884-1
WINSTEN, WALTER A. GM-10561-3
WINTER, CHESTER C. CA-07761-2
WINTER, CHESTER C. HF-06644-4
WINTER, JOSEPH W. CA-06248-3
WINTERS, EUNICE E. MH-06642-3
WINTERS, ROBERT W. HD-00177-2
WINTERS, WALLACE D. MH-10806-1
WINTERS, WILLIAM L., Jr. HE-06313-4
WINTNER, CLAUDE E. GM-12168-2
WINTROBE, M.M AM-00092-19
WINTROBE, MAXWELL M. AM-04499-5
WINZLER, RICHARD J. CA-02941-9
WIRTS, C. WILMER AM-02804-6
WIRTZ, GEORGE H. AI-06118-2
WISCHNER, GEORGE J. MH-01290-9
WISCHNER, GEORGE J. MH-08482-2
WISCHNITZER, SAUL GM-12706-1
WISE, DONALD L. WP-00671-1
WISE, ROBERT I. AI-01293-9
WISEMAN, FREDERICK OM-01218-2
WISEMAN, RALPH F. AM-04111-4
WISHAM, LAWRENCE H. AM-06281-3
WISHNER, JULIUS MH-04211-5
WISSIG, STEVEN L. HE-04512-6
WISSLER, ROBERT W. GM-08885-4
WISSLER, ROBERT W. HF-02174-10
WISSLER, ROBERT W. HF-06894-4
WISSLER, ROBERT W. HE-08471-2
WIST, EUGENE R. NB-05528-1
Wistar Inst. Contr. CA-62-157
Wistar Institute Contr. CA-65-1002
Wistar Institute Contr. CA-65-1028
WITEBSKY, ERNEST CA-02357-11
WITIAK, DONALD T. HE-08577-2
WITIAK, DONALD T. RH-00324-2
WITKIN, EVELYN M. AI-01240-9
WITKIN, HERMAN A. MH-00628-12
WITKOVSKY, PAUL NB-05404-1
WITT, JAMES M. EF-00627-1
WITT, NORMAN F. AM-08374-1
WITT, NORMAN F. GM-06451-6
WITTF, MARLYS H HF-09073-1
WITTE, ROBERT S. MH-10950-1
WITTELS, BENJAMIN HE-07780-3
WITTEN, HAROLD B. OM-01672-1
WITTEN, VICTOR H. AM-07138-4
WITTENBERG, JONATHAN B. HE-03719-8
WITTENBORN, J. RICHARD MH-07418-2
WITTENBORN, J. RICHARD MH-10333-1
WITTER, LLOYD D. AI-04545-4
WITTER, LLOYD D. FF-00520-2
WITTGENSTEIN, EVA NB-03443-4
WITTING, LLOYD A. NB-03523-4
WITTLER, RUTH G. AI-02332-7
WITTNER, MURRAY CA-07081-3
WITTSON, CECIL L. FR-05391-4
WITTSON, CECIL L. HD-00370-4
WITZEL, STANLEY A. EF-00524-2
WIXOM, ROBERT L. GM-12891-1
WOELFEL, JULIAN B. DE-00548-8
WOERDEMAN, MARTINUS W. CA-09346-12
WOERDEMAN, MARTINUS W. HD-01063-5
WOESE, CARL R AI-06457-1
WOFSY, LEON AI-06610-1
WOGAN, GERALD N. FF-00305-3
WOHL, GEORGE T. CA-06087-3
WOHL, HERBERT HE-08566-2
WOHLTMANN, HULDA J. AM-08173-2
WOHLWILL, JOACHIM F. MH-11740-1
WOLBACH, ROBERT A. AM-06973-3
WOLBERG, WILLIAM H. CA-05953-4
WOLCOTT, GORDON B. AI-05680-2
WOLD, FINN GM-08197-4
WOLDRING, SABBO GM-09034-4
WOLF, ABNER NB-01620-8
WOLF, ARNOLD V. HE-04517-5
WOLF, BERNARD S. AM-06505-3
WOLF, ERNST NB-01482-8
WOLF, GEORGE AM-06346-4
WOLF, GEORGE AM-08732-4
WOLF, H. WALTER GM-10721-2
WOLF, HAROLD H. MH-07397-2
WOLF, PAUL L. CA-02624-10
WOLF, ROBERT A. AC-00101-3
WOLF, STEWART G. AM-01947-7
WOLF, STEWART G. AM-02046-8
WOLF, STEWART G. AM-04775-5
WOLF, STEWART G. HE-05645-5
WOLF, STEWART G. HE-06286-5
WOLF, STEWART G. NB-04667-3
WOLFE, H. GLENN GM-12975-1
WOLFE, J.M. AM-02706-5
WOLFE, JOHN B. HD-00916-4
WOLFE, RAYMOND G., Jr. HE-03226-8
WOLFE, STEPHEN L. GM-11873-2
WOLFENDEN, RICHARD V. GM-12725-1
WOLFF, B. BERTHOLD AM-02920-5
WOLFF, B. BERTHOLD NB-05788-1
WOLFF, FREDERICK W. HE-08463-2
WOLFF, GEORGE L. GM-10112-3
WOLFF, JAMES A. CA-03526-8
WOLFF, MANFRED E. AM-05016-5
WOLFF, PETER H. MH-06034-4
WOLFGRAM, FREDERICK J. NR-05997-1
WOLFMAN, EARL F., Jr. NB-02290-6

CA-03232-9	WOLFROM, MELVILLE L.	WORTIS, JOSEPH	HD-01095-1	YATES, WESLEY E.	AP-00292-2
HE-08066-3	WOLFSON, SIDNEY K., Jr.	WORTIS, JOSEPH	OM-01335-2	YATVIN, MILTON B.	CA-08318-1
AI-04445-3	WOLIN, MEYER J.	WORTIS, S. BERNARD	MH-08618-2	YCAS, MARTYNAS	HD-01838-1
OM-01430-2	WOLINS, MARTIN	WOSILAIT, WALTER D.	AM-09142-1	YEAGER, GEORGE H.	HF-07171-4
MH-11073-1	WOLITZKY, DAVID L.	WOSTMANN, BERNARD S.	HD-00855-6	YEAGER, VERNON L.	AM-04748-4
NB-05922-1	WOLKEN, JEROME J.	WOSTMANN, BERNARD S.	HD-01167-6	YEH, SHU	CA-06902-3
HD-01482-1	WOLKOFF, A. STARK	WOSTMANN, BERNARD S.	HE-08351-2	YEH, THOMAS J.	HE-09310-4
MH-11494-1	WOLLEN, KEITH A.	WOTIZ, HERBERT H.	CA-03135-8	YERGANIAN, GEORGE	AM-04468-5
CA-04737-6	WOLMAN, IRVING J.	WRAY, JAMES B.	AM-04868-5	YERMANOS, D M.	HE-08405-2
NB-02873-5	WOLTER, J. REIMER	WRIGHT, BARBARA E.	GM-08958-4	YERUSHALMY, J.	HD-00718-6
AP-00041-4	WOLTZ, SHREVE S.	WRIGHT, CHRISTOPHER A.	AI-03650-5	YERUSHALMY, JACOB	HD-00720-5
AM-06657-3	WOLWILER, WADE	WRIGHT, CLAUDE-STARR	CA-05525-4	YETTRA, MAURICE	CA-07586-2
HE-08649-2	WONG, HARRY Y.C.	WRIGHT, GEORGE W.	HE-09187-1	YIELDING, K. LEMONE	AM-08274-2
HE-09693-1	WONG, HARRY Y.C.	WRIGHT, HAROLD N.	AM-01547-8	YIM, GEORGE K.W.	NB-04340-3
AM-06590-3	WONG, RUTH L.	WRIGHT, HERBERT F.	MH-01098-10	YIP, CECIL C.	AM-09487-1
CA-05894-3	WONG, TING-WA	WRIGHT, HERBERT F.	MH-11338-1	YOCHIM, JEROME M.	GM-10556-3
HE-05660-5	WOOD, COLIN	WRIGHT, IRVING S.	HE-04277-5	YODAIKEN, RALPH EMILE	AM-08334-2
CA-03485-9	WOOD, DAVID A.	WRIGHT, IRVING S.	HE-06718-4	YOELI, MEIR	AI-02423-7
FR-00122-4	WOOD, DAVID A.	WRIGHT, IRVING S.	NB-03346-4	YOHN, DAVID S.	CA-07998-1
NB-05085-2	WOOD, DON C.	WRIGHT, JANE C.	CA-07354-2	YOKE, JOHN T., III	GM-12642-1
HE-03532-8	WOOD, EARL H.	WRIGHT, JOHN C.	WP-00125-3	YONCE, LLOYD R.	HF-03757-7
HE-04664-6	WOOD, EARL H.	WRIGHT, LEMUEL D.	HE-04138-7	YONEZAWA, TAKESHI	NB-03173-5
WP-00709-1	WOOD, EDWARD J.F.	WRIGHT, MADISON J.	GM-07642-4	YORK, CHARLES J	AI-07019-1
FR-00040-5	WOOD, FRANCIS C.	WRIGHT, MARGARET R.	NB-00908-9	YOSHIDA, TOMIZO	CA-07799-10
MH-08331-1	WOOD, HAMISH C.S.	WRIGHT, PAUL A.	HD-00752-1	YOSHIDA, TSUNEO	AM-05392-3
GM-11839-2	WOOD, HARLAND G.	WRIGHT, PHILIP W.	HE-09053-1	YOSHINO, KAMESABURO	AI-04248-5
AI-04021-2	WOOD, HARRISON F.	WRIGHT, STANLEY W.	HD-00315-2	YOSHIOKA, MORIMASA	AI-04283-4
HE-09018-1	WOOD, J EDWIN	WRIGHT, SYDNEY E.	EF-00258-4	YOSIDA, TOSIHIDE H.	CA-07798-2
NB-05093-2	WOOD, JOE G.	Wright-Fleming Inst.	Contr. CA-65-19	YOST, HENRY T., Jr.	CA-06132-4
HE-09346-1	WOOD, PETER D.			YOUMANS, GUY P.	AI-01636-8
HD-01337-1	WOOD, RICHARD L.	WRISTON, JOHN C., Jr.	CA-06780-3	YOUNATHAN, EZZAT S.	AM-04050-6
CA-05319-5	WOOD, SUMNER, Jr.	WU, CHUNG	AM-07319-3	YOUNG, DAVID M.	AM-09404-1
HE-09214-1	WOOD, SUMNER, Jr.	WU, CLYDE	GM-12049-2	YOUNG, ELLIOTT G.	OM-00869-3
CA-06629-11	WOOD, THOMAS H.	WU, RAY	CA-05706-5	YOUNG, FRANK E.	GM-12956-1
AI-03772-5	WOOD, W. BARRY, Jr.	WUEHRMANN, ARTHUR H.	DE-02036-2	YOUNG, GEORGE R.	DE-01998-2
AI-04764-2	WOOD, WALTER S.	WULFF, VERNER J.	HD-00056-2	YOUNG, JAMES H.	GM-07199-4
GM-09336-4	WOOD, WILLIS A.	WULFF, VERNER J.	NB-03721-4	YOUNG, JOHN D., Jr.	HF-06653-4
MH-08603-2	WOODARD, JOHN S.	WUNDER, CHARLES C.	GM-10093-3	YOUNG, LEROY K.	HM-00282-1
GM-08591-3	WOODARD, JOHN W.	WURTZ, ROBERT H.	MH-10793-1	YOUNG, R.A.	DE-01912-3
Contr. CA-63-617	Woodard Res. Corp.	WYANT, M.E.	OM-01687-2	YOUNG, REUBEN B.	HD-01116-1
NB-04521-2	WOODBURNE, LLOYD S.	WYATT, GERARD R.	AI-01028-9	YOUNG, RICHARD D.	MH-08543-2
NB-01752-7	WOODBURY, J. WALTER	WYCKOFF, RALPH W.G.	DE-01183-5	YOUNG, RICHARD H.	FR-00048-4
AM-06857-4	WOODBURY, MAX A.	WYCKOFF, RALPH W.G.	DE-01919-2	YOUNG, RICHARD H.	FR-05370-4
FR-00002-4	WOODBURY, MAX A.	Wyeth Labs	Contr. AI-63-80	YOUNG, RICHARD L.	NB-04835-2
NB-05150-3	WOODCOCK, RICHARD W.	Wyeth Labs.	Contr. CA-63-1131	YOUNG, RICHARD W.	NB-03807-4
NH-00131-1	WOODEN, HOWARD E.	Wyeth Labs.	Contr. CA-65-16	YOUNG, ROBERT J.	AM-04569-5
NB-03417-4	WOODFORD, VERNON R.	WYLIE, EDWIN J.	HE-04850-6	YOUNG, WILLIAM C.	MH-08634-3
AM-06484-3	WOODHOUSE, CHARLES F.	WYLIE, LAURENCE	MH-11332-1	YOUNGKEN, HEBER W., Jr.	MH-06511-3
CA-08062-1	WOODRUFF, J. DONALD	WYLIE, MARY L.	OM-01472-2	YOUNT, JAMES L.	WP-00216-5
CA-07361-2	WOODRUFF, MARVIN W.	WYNGAARDEN, JAMES B.	AM-01391-9	YOUNT, RALPH G.	AM-05195-5
AM-09676-1	WOODS, ALEXANDER H.	WYNN, JAMES O.	AM-04130-6	YOUSEM, HERBERT	HD-01562-1
MH-06093-3	WOODS, FRANCES J., Sister	WYNN, JAMES O.	AM-08081-2	YOON, CHAI H	NB-02267-6
AM-01835-8	WOODS, JAMES W.	WYNN, RALPH M	HD-00018-1	YOSHIDA, TAKASHI	AM-08951-1
AM-07290-3	WOODS, JAMES W.	WYNNE, RONALD D.	MH-10974-1	YOUMANS, JULIAN R.	NB-04991-3
HE-03794-5	WOODS, JAMES W., Jr.	WYSS, ORVILLE	AI-02830-6	YOUNG, ELLEN A.	RH-00334-1
GM-12675-1	WOODS, L.A.	YAEGER, JAMES A.	DE-01716-3	YOUNG, FRANCIS A.	NB-05459-1
FR-00277-1	WOODS, L.A.	YAFFE, SUMNER J.	FR-00077-3	YOUNG, JANIS D.	AI-06040-1
CA-05445-5	WOODS, LAUREN A.	YAFFE, SUMNER J.	HD-01219-3	YOUNGNER, JULIUS S.	AI-04264-1
NB-02928-5	WOODS, LAUREN A.	YAHALOM, ITAMAR	OM-00617-4	YOW, MARTHA D.	AI-02963-6
MH-02883-7	WOODS, PAUL J.	YAHR, MELVIN D.	NB-02374-8	YU, PAUL N.	HF-03966-7
Contr. HD-65-59	Woods Schools	YAHR, MELVIN D.	NB-04891-2	YUDILEVICH, DAVID L.	HF-05929-5
GM-10067-3	WOODWARD, DOW O.	YAIMAN, RICHARD G.	GM-04458-10	YUEN, GEORGE U.	GM-07221-3
AM-02372-7	WOODWARD, EDWARD R.	Yale Univ.	Contr. CA-63-1153	YUNIS, JORGE J.	GM-12163-2
AI-02327-6	WOODWARD, JOHN M.	Yale Univ.	Contr. LM-65-631	YUSEM, MILTON	AM-07587-1
GM-04229-11	WOODWARD, R.B.	YALE, SEYMOUR H.	DE-01849-2	YUSHOK, WASLEY D.	CA-05118-6
GM-10216-3	WOODWARD, VAL W.	YALE, SEYMOUR H.	FR-05309-4	YUWILER, ARTHUR	HD-01058-1
HE-07235-4	WOODWORTH, ROBERT C.	YAMADA, EICHI	NB-03614-4	ZABARENKO, LUCY	MH-07162-3
AM-04842-4	WOOL, IRA G.	YAMAMOTO, HARRY Y.	EF-00352-3	ZABIN, IRVING	AI-04181-4
RH-00318-1	WOOLES, WALLACE R.	YAMAMOTO, WILLIAM S.	HE-09284-1	ZACH, LEO	DE-00530-8
HD-00445-6	WOOLEVER, CHARLES A.	YAMAZAKI, ISAO	AM-06518-3	ZACKHEIM, HERSCHEL S.	CA-08505-1
GM-12351-1	WOOLF, CHARLES M.	YANG, HOYA, Y.	EF-00022-5	ZADUNAISKY, JOSE A.	AM-08707-2
AM-01240-9	WOOLLEY, D.W.	YANG, JEN T.	GM-10880-6	ZADUNAISKY, JOSE A.	NB-04334-3
AM-03386-6	WOOLLEY, D.W.	YANG, N.C.	CA-06478-3	ZADUNAISKY, JOSE A.	NB-05356-2
OM-01010-4	WOOLMAN, MYRON	YANG, SHIANG PING	AM-08405-2	ZAFRAN, JACK N.	DE-02038-2
NB-000732-11	WOOLSEY, CLINTON N.	YANG, WILLIAM C.	HE-04346-5	ZAIMIS, ELEANOR	NB-02474-5
NB-00896-10	WOOLSEY, CLINTON N.	YANOF, HOWARD M	HE-08507-1	ZAKRZEWSKI, SIGMUND F.	CA-02906-9
NB-03641-3	WOOLSEY, CLINTON N.	YANOFSKY, CHARLES	GM-09738-4	ZALKOW, LEON H.	AM-05490-4
GM-11189-3	WOOTTON, JOHN F.	YARCZOWER, MATTHEW	MH-08819-1	ZALKOW, LEON H.	AM-07010-3
OM-01452-1	WOOTTON, RAY W.	YARD, ALBERT C.	HE-07151-3	ZALKOW, LEON H.	GM-08346-4
MH-03831-6	WORDEN, FREDERIC G.	YARDLEY, JOHN H.	AM-04388-5	ZAMANSKY, HAROLD S.	MH-10900-1
NB-04133-3	WORDEN, FREDERIC G.	YASE, YOSHIRO	NB-05441-1	ZAMBONI, LUCIANO	AM-08628-2
MH-04891-4	WORELL, LEONARD	YASUMURA, SEIICHI	AM-09046-1	ZAMCHECK, NORMAN	CA-02090-12
Contr. MH-64-28	World Fed. Mental Hlth.	YASUNOBU, KERRY T.	MH-10280-1	ZAMCHECK, NORMAN	CA-04486-7
GM-11463-2	WORONICK, CHARLES L.	YASUZUMI, GONPACHIRO	GM-08327-5	ZAMENHOF, PATRICE J.	HD-01825-1
HE-08097-3	WORTH, MELVIN H., Jr.	YATES, F. EUGENE	AM-04612-5	ZAMENHOF, STEPHEN	CA-08178-1
HE-09779-1	WORTHEN, HOWARD G.	YATES, ROBERT D.	AM-08222-2	ZAMENHOF, STEPHEN	HD-01331-1
GM-13245-1	WORTHEN, LEONARD R.	YATES, ROBERT D.	NB-05665-1	ZAND, ROBERT	NB-05306-2
GM-09796-4	WORTHINGTON, CHARLES R.	YATES, WESLEY E.	AP-00292-2	ZANDER, HELMUT A.	DE-01648-3
NB-03937-3	WORTHINGTON, W. CURTIS, Jr.	YATVIN, MILTON B.	CA-08318-1	ZANDER, HELMUT A.	DE-02041-1
		YCAS, MARTYNAS	HD-01838-1	ZANGWILL, DONALD P.	HD-00815-2
		YEAGER, GEORGE H.	HF-07171-4	ZAO, ZANG Z.	HE-07695-3
		YEAGER, VERNON L.	AM-04748-4	ZAPATA-ORTIZ, VICENTE	HE-08732-2
		YEH, SHU	CA-06902-3		
		YEH, THOMAS J.	HE-09310-4		
		YERGANIAN, GEORGE	AM-04468-5		
		YERMANOS, D M.	HE-08405-2		
		YERUSHALMY, J.	HD-00718-6		
		YERUSHALMY, JACOB	HD-00720-5		
		YETTRA, MAURICE	CA-07586-2		
		YIELDING, K. LEMONE	AM-08274-2		
		YIM, GEORGE K.W.	NB-04340-3		
		YIP, CECIL C.	AM-09487-1		
		YOCHIM, JEROME M.	GM-10556-3		
		YODAIKEN, RALPH EMILE	AM-08334-2		
		YOELI, MEIR	AI-02423-7		
		YOHN, DAVID S.	CA-07998-1		
		YOKE, JOHN T., III	GM-12642-1		
		YONCE, LLOYD R.	HF-03757-7		
		YONEZAWA, TAKESHI	NB-03173-5		
		YORK, CHARLES J	AI-07019-1		
		YOSHIDA, TOMIZO	CA-07799-10		
		YOSHIDA, TSUNEO	AM-05392-3		
		YOSHINO, KAMESABURO	AI-04248-5		
		YOSHIOKA, MORIMASA	AI-04283-4		
		YOSIDA, TOSIHIDE H.	CA-07798-2		
		YOST, HENRY T., Jr.	CA-06132-4		
		YOUMANS, GUY P.	AI-01636-8		
		YOUNATHAN, EZZAT S.	AM-04050-6		
		YOUNG, DAVID M.	AM-09404-1		
		YOUNG, ELLIOTT G.	OM-00869-3		
		YOUNG, FRANK E.	GM-12956-1		
		YOUNG, GEORGE R.	DE-01998-2		
		YOUNG, JAMES H.	GM-07199-4		
		YOUNG, JOHN D., Jr.	HF-06653-4		
		YOUNG, LEROY K.	HM-00282-1		
		YOUNG, R.A.	DE-01912-3		
		YOUNG, REUBEN B.	HD-01116-1		
		YOUNG, RICHARD D.	MH-08543-2		
		YOUNG, RICHARD H.	FR-00048-4		
		YOUNG, RICHARD H.	FR-05370-4		
		YOUNG, RICHARD L.	NB-04835-2		
		YOUNG, RICHARD W.	NB-03807-4		
		YOUNG, ROBERT J.	AM-04569-5		
		YOUNG, WILLIAM C.	MH-08634-3		
		YOUNGKEN, HEBER W., Jr.	MH-06511-3		
		YOUNT, JAMES L.	WP-00216-5		
		YOUNT, RALPH G.	AM-05195-5		
		YOUSEM, HERBERT	HD-01562-1		
		YOON, CHAI H	NB-02267-6		
		YOSHIDA, TAKASHI	AM-08951-1		
		YOUMANS, JULIAN R.	NB-04991-3		
		YOUNG, ELLEN A.	RH-00334-1		
		YOUNG, FRANCIS A.	NB-05459-1		
		YOUNG, JANIS D.	AI-06040-1		
		YOUNGNER, JULIUS S.	AI-04264-1		
		YOW, MARTHA D.	AI-02963-6		
		YU, PAUL N.	HF-03966-7		
		YUDILEVICH, DAVID L.	HF-05929-5		
		YUEN, GEORGE U.	GM-07221-3		
		YUNIS, JORGE J.	GM-12163-2		
		YUSEM, MILTON	AM-07587-1		
		YUSHOK, WASLEY D.	CA-05118-6		
		YUWILER, ARTHUR	HD-01058-1		
		ZABARENKO, LUCY	MH-07162-3		
		ZABIN, IRVING	AI-04181-4		
		ZACH, LEO	DE-00530-8		
		ZACKHEIM, HERSCHEL S.	CA-08505-1		
		ZADUNAISKY, JOSE A.	AM-08707-2		
		ZADUNAISKY, JOSE A.	NB-04334-3		
		ZADUNAISKY, JOSE A.	NB-05356-2		
		ZAFRAN, JACK N.	DE-02038-2		
		ZAIMIS, ELEANOR	NB-02474-5		
		ZAKRZEWSKI, SIGMUND F.	CA-02906-9		
		ZALKOW, LEON H.	AM-05490-4		
		ZALKOW, LEON H.	AM-07010-3		
		ZALKOW, LEON H.	GM-08346-4		
		ZAMANSKY, HAROLD S.	MH-10900-1		
		ZAMBONI, LUCIANO	AM-08628-2		
		ZAMCHECK, NORMAN	CA-02090-12		
		ZAMCHECK, NORMAN	CA-04486-7		
		ZAMENHOF, PATRICE J.	HD-01825-1		
		ZAMENHOF, STEPHEN	CA-08178-1		
		ZAMENHOF, STEPHEN	HD-01331-1		
		ZAND, ROBERT	NB-05306-2		
		ZANDER, HELMUT A.	DE-01648-3		
		ZANDER, HELMUT A.	DE-02041-1		
		ZANGWILL, DONALD P.	HD-00815-2		
		ZAO, ZANG Z.	HE-07695-3		
		ZAPATA-ORTIZ, VICENTE	HE-08732-2		

ALPHABETICAL LISTING OF INVESTIGATORS

ZAREM. HARVEY A.	AM-09144-1
ZARROW. MEYER X.	GM-06963-6
ZARZAR. NAKHLEH P.	OM-02031-1
ZATZMAN. MARVIN L.	AM-06316-3
ZAUGG. WALDO S.	GM-12272-2
ZAVON. MITCHELL R.	ES-00048-1
ZEAMAN. DAVID	MH-01099-10
ZEAMAN. DAVID	MH-06765-3
ZEE. PAULUS	HD-01408-1
ZEIDMAN. IRVING	CA-02356-11
ZEIGLER. H. PHILIP	MH-08366-2
ZEILER. MICHAEL D.	MH-08818-2
ZEITZ. LOUIS	HD-01410-1
ZELDIS. LOUIS J.	CA-07409-2
ZELEDON. RODRIGO A.	AI-03304-5
ZELICKSON. ALVIN S.	CA-05887-4
ZELLER. ALBERT	HD-00979-2
ZELLER. HECTOR C.	OM-01694-1
ZELLWEGER. HANS	NB-02543-6
ZEMAN. WOLFGANG	NB-02960-6
ZEMAN. WOLFGANG	NB-04607-2
ZENKER. NICOLAS	AM-06480-2
ZENZ. CARL	OH-00173-1
ZEPPA. ROBERT	HD-00121-2
ZERVAS. NICHOLAS T.	NB-05132-2
ZIEGLER. DANIEL	GM-12360-1
ZIEGLER. FREDERICK J.	MH-04479-4
ZIEMINSKI. STEFAN A.	WP-00562-2
ZIER. MERLIN W.	OM-01677-1
ZIERLER. KENNETH L.	AM-00750-11
ZIERLER. KENNETH L.	AM-05524-4
ZIEVE. PHILIP D.	HF-09102-1
ZIFF. MORRIS	AM-02071-8
ZIFF. MORRIS	AM-05864-4
ZIGLER. EDWARD F.	MH-06809-3
ZILVERSMIT. DONALD B.	HF-01738-13
ZILVERSMIT. DONALD B.	HE-02181-10
ZIMBARDO. PHILIP G.	MH-08538-2
ZIMET. CARL N.	MH-08274-2
ZIMM. BRUNO H.	GM-11916-2
ZIMMER. BASIL G.	CH-00109-2
ZIMMER. HANS	CA-05841-4
ZIMMER. HANS	GM-08797-4
ZIMMERING. PAULA E.	AM-07572-2
ZIMMERMAN. BEN	HE-08570-2
ZIMMERMAN. H.M.	NB-03533-4
ZIMMERMAN. HOWARD E.	GM-07487-5
ZIMMERMAN. JACOB	HE-08935-2
ZIMMERMAN. JACOB	HE-09166-1
ZIMMERMAN. JOSEPH	MH-05821-4
ZIMMERMAN. JOSEPH	MH-10741-1
ZIMMERMAN. LEONARD N.	AI-06485-1
ZIMMERMANN. BERNARD	AM-04577-6
ZIMMERMANN. HENRY J.	MH-04737-5
ZIMMERMANN. ROBERT R.	MH-04516-5
ZIMNY. MARILYN L.	AM-02027-7
ZINKHAM. WILLIAM H.	HD-00994-1
ZINNEMAN. HORACE H.	AM-06240-3
ZINNER. DORAN D.	DE-01519-5
ZINNER. DORAN D.	DE-02180-1
ZINNES. JOSEPH I.	MH-08975-2
ZINSSER. HANS H.	AM-04546-5
ZINTEL. HAROLD A.	AM-07967-2
ZINTEL. HAROLD A.	HE-09035-1
ZIOUDROU. CHRISTINE	GM-11628-2
ZIRKLE. RAYMOND E.	CA-06632-3
ZMIJEWSKI. CHESTER M.	HE-08421-2
ZOBEL. C. RICHARD	AM-07635-2
ZOGRAFI. GEORGE	GM-12886-1
ZOLA. IRVING K.	GM-11367-2
ZOLL. PAUL M.	HF-02208-8
ZOLL. PAUL M.	HE-06316-5
ZOLL. PAUL M.	HE-09001-1
ZOLLINGER. ROBERT	AM-07864-1
ZOLLINGER. ROBERT M.	AM-05138-4
ZOLTEWICZ. JOHN A.	GM-11798-2
Zoological Soc. San Diego	Contr. CA-63-56
ZORBACH. WILLIAM W.	CA-07514-2
ZORZOLI. ANITA	HD-00494-7
ZUBAY. GEOFFREY L.	GM-12768-1
ZUBEK. JOHN P.	MH-08748-1
ZUBIN. JOSEPH	OM-00691-4
ZUBIN. JOSEPH	MH-08534-2
ZUBIN. JOSEPH	MH-09191-2
ZUBOWICZ. GEORGE	OM-01678-2
ZUBRZYCKI. LEONARD J.	AI-06581-1
Zucca's Hamstery	Contr. CA-65-577
Zucca's Hamstery	Contr. CA-65-621
ZUCKER. LOIS M.	AM-08272-2
ZUCKER. LOIS M.	CA-04241-6
ZUCKERKANDL. EMILE	GM-11272-2
ZUCKERMAN. AVIVAH	AI-02859-6
ZUCKERMAN. J.J.	CA-07064-3
ZUCKERMAN. MARVIN	MH-07926-2
ZUELZER. WOLF W.	AM-02940-7
ZUELZER. WOLF W.	HD-00477-8
ZUGIBE. FREDERICK T.	HE-06056-5
ZUIDEMA. GEORGE D.	AM-09603-1
ZUKOSKI. CHARLES F.	AM-07317-3
ZUSPAN. FREDERICK P.	CA-07377-3
ZUSPAN. FREDERICK P.	HD-00531-5
ZVAIFLER. NATHAN J.	AM-05140-3
ZVAIFLER. NATHAN J.	AM-07473-2
ZWENG. H. CHRISTIAN	NB-03291-4
ZWEIFACH. BENJAMIN W.	HE-02267-10
ZWEIFACH. BENJAMIN W.	HE-04298-6
ZWEIG. GUNTER	EF-00183-5
ZWEIG. GUNTER	EF-00357-2
ZWERLING. ISRAEL	OM-01132-3
ZWERLING. ISRAEL	OM-01470-2
ZWILLING. EDGAR	GM-06334-7
ZWILLING. EDGAR	GM-10103-3
ZWISLOCKI. JOZEF J.	NB-03950-3
ZWISLOCKI. JOZEF J.	NB-04817